according to UK REACH Regulation

replaces vers.frm: 23.03.2021 MIXOL® Nr. 3 Oxyd-Rehbraun Revision date: 06.04.2022 Product code: PES54 Page 1 of 11 SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier MIXOL® Nr. 3 Oxyd-Rehbraun 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture Colour, Pigment 1.3. Details of the supplier of the safety data sheet MIXOL-PRODUKTE Diebold GmbH Company name: Street: Carl-Zeiss-Str. 17-19 D-73230 Kirchheim/Teck Place: Telephone: +49/(0)7021 / 950090 Telefax: +49/(0)7021 / 56030 e-mail: Technik@mixol.de e-mail (Contact person): Internet: Responsible Department: Technik 1.4. Emergency telephone Emergency CONTACT (24 h) GBK GmbH +49/(0)6132 / 84463 number: **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture **GB CLP Regulation** Aquatic Chronic 3; H412 Full text of hazard statements: see SECTION 16. 2.2. Label elements **GB CLP Regulation** Hazard statements H412 Harmful to aquatic life with long lasting effects. **Precautionary statements** P273 Avoid release to the environment. P501 Dispose of waste according to applicable legislation. Special labelling of certain mixtures EUH208 Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5 -chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction. 2.3. Other hazards The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

according to UK REACH Regulation

replaces vers.frm:23.03.2021 Revision date: 06.04.2022

MIXOL® Nr. 3 Oxyd-Rehbraun Product code: PES54

Page 2 of 11

#### Hazardous components

CAS No	Chemical name		Quantity	
	EC No	Index No	REACH No	
	GHS Classification	•		
68920-66-1	Alcohols, C16-18 and C18-unsatd.,	ethoxylated		10 - < 15 %
	500-236-9			
	Skin Irrit. 2, Aquatic Acute 1, Aquat	ic Chronic 3; H315 H400 H412		
112-02-7	Cetrimonium chloride		< 1 %	
	203-928-6			
	Acute Tox. 3, Acute Tox. 4, Skin Co H302 H314 H318 H400 H410	, Aquatic Chronic 1; H311		
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-b		< 0.1 %	
	220-120-9	613-088-00-6	01-2120761540-60	
	Acute Tox. 2, Acute Tox. 4, Skin Irr Chronic 2; H330 H302 H315 H318	it. 2, Eye Dam. 1, Skin Sens. 1, Aqua H317 H400 H411	atic Acute 1, Aquatic	
55965-84-9	reaction mass of 5-chloro-2-methyl	-2H-isothiazol-3-one and 2-methyl-2H	H-isothiazol-3-one (3:1)	< 0.1 %
	-	613-167-00-5	01-2120764691-48	
		Fox. 3, Skin Corr. 1C, Eye Dam. 1, S I310 H301 H314 H318 H317 H400 H		

Full text of H and EUH statements: see section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

When in doubt or if symptoms are observed, get medical advice.

#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical advice/attention.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

#### After ingestion

Observe risk of aspiration if vomiting occurs. @0405.B004145 Get medical advice/attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Water spray jet, Extinguishing powder, Carbon dioxide (CO2), alcohol resistant foam.

according to UK REACH Regulation

replaces vers.frm:23.03.2021 Revision date: 06.04.2022

MIXOL® Nr. 3 Oxyd-Rehbraun Product code: PES54

Page 3 of 11

#### Unsuitable extinguishing media

Full water jet

## 5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

## 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures** 

#### 6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### 6.3. Methods and material for containment and cleaning up

Clean contaminated articles and floor according to the environmental legislation.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray. Use personal protection equipment.

#### Advice on protection against fire and explosion

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

#### Further information on handling

Handle and open container with care.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

No information available.

### Further information on storage conditions

storage stability: >= 36 month(s)

### 7.3. Specific end use(s)

Colour, Pigment

#### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

according to UK REACH Regulation

replaces vers.frm:23.03.2021 Revision date: 06.04.2022

MIXOL® Nr. 3 Oxyd-Rehbraun Product code: PES54

Page 4 of 11

## Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
1309-37-1	Iron oxide, fume (as Fe)	-	5		TWA (8 h)	WEL
		-	10		STEL (15 min)	WEL
-	Iron salts (as Fe)	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL
-	Manganese: its inorganic compounds (as Mn, inhalable fraction)	-	0.2		TWA (8 h)	WEL
-	Manganese: its inorganic compounds (as Mn, respirable fraction)	-	0.05		TWA (8 h)	WEL
1309-37-1	Rouge, respirable	-	4		TWA (8 h)	WEL
1309-37-1	Rouge, total inhalable	-	10		TWA (8 h)	WEL
-	Silica, amorphous, inhalable dust	-	6		TWA (8 h)	WEL
-	Silica, amorphous, respirable dust	-	2.4		TWA (8 h)	WEL

## **DNEL/DMEL** values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
112-02-7	Cetrimonium chloride			
Worker DNEL,	, long-term	inhalation	systemic	3,32 mg/m <sup>3</sup>
Worker DNEL,	, long-term	dermal	systemic	4,7 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	0,98 mg/m³
Consumer DN	EL, long-term	dermal	systemic	2,83 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	2,83 mg/kg bw/day
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-	3-one		
Worker DNEL,	, long-term	inhalation	systemic	6,81 mg/m³
Worker DNEL,	, long-term	dermal	systemic	0,966 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	1,2 mg/m <sup>3</sup>
Consumer DN	EL, long-term	dermal	systemic	0,345 mg/kg bw/day
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-	one and 2-methyl-2H-isothi	azol-3-one (3:1)	
Worker DNEL,	, long-term	inhalation	local	0,02 mg/m³
Worker DNEL,	, acute	inhalation	local	0,04 mg/m³
Consumer DN	EL, long-term	inhalation	local	0,02 mg/m³
Consumer DN	EL, acute	inhalation	local	0,04 mg/m³
Consumer DN	EL, long-term	oral	systemic	0,11 mg/kg bw/day
Consumer DN	EL, acute	oral	systemic	0,09 mg/kg bw/day

according to UK REACH Regulation

replaces vers.frm:23.03.2021 Revision date: 06.04.2022

MIXOL® Nr. 3 Oxyd-Rehbraun Product code: PES54

Page 5 of 11

#### **PNEC** values

CAS No	Substance	
Environmenta	l compartment	Value
112-02-7	Cetrimonium chloride	
Freshwater		0,00063 mg/l
Freshwater (i	ntermittent releases)	0,0008 mg/l
Marine water		0,000068 mg/l
Freshwater se	ediment	9,27 mg/kg
Marine sedim	ent	0,927 mg/kg
Micro-organis	ms in sewage treatment plants (STP)	0,4 mg/l
Soil		7 mg/kg
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	
Freshwater		0,00403 mg/l
Freshwater (i	ntermittent releases)	0,0011 mg/l
Marine water		0,000403 mg/l
Marine water	(intermittent releases)	0,0011 mg/l
Freshwater se	ediment	0,0499 mg/kg
Marine sedim	ent	0,00499 mg/kg
Micro-organis	ms in sewage treatment plants (STP)	1,03 mg/l
Soil		3 mg/kg
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (	3:1)
Freshwater		0,00339 mg/l
Freshwater (i	ntermittent releases)	0,00339 mg/l
Marine water		0,00339 mg/l
Marine water	(intermittent releases)	0,00339 mg/l
Freshwater se	ediment	0,027 mg/kg
Marine sedim	ent	0,027 mg/kg
Micro-organis	ms in sewage treatment plants (STP)	0,23 mg/l
Soil		0,01 mg/kg

## 8.2. Exposure controls





## Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

### Protective and hygiene measures

Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work. Draw up and observe skin protection programme. Use protective skin cream before handling the product. When using do not eat, drink, smoke, sniff.

#### Eye/face protection

Wear eye/face protection.

### Hand protection

Wear protective gloves.

according to UK REACH Regulation

replaces vers.frm:23.03.2021 Revision date: 06.04.2022

MIXOL® Nr. 3 Oxyd-Rehbraun Product code: PES54

Page 6 of 11

Suitable material: NBR (Nitrile rubber)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties of the material must be taken into consideration.

#### Skin protection

Use of protective clothing.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid (Dispersion)	
Colour:	brown	
Odour:	odourless	
pH-Value:		not determined
Changes in the physical state		
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		100 °C
Flash point:		> 100 °C
Flammability		
Solid:		not applicable
Gas:		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Auto-ignition temperature:		not determined
Decomposition temperature:		> 100 °C
Vapour pressure:		not determined
Density (at 20 °C):		1,65 g/cm³
Water solubility:		miscible
Solubility in other solvents not determined		
Partition coefficient n-octanol/water:		not determined
Viscosity / kinematic:		not determined
Relative vapour density:		not determined
9.2. Other information		
No information available.		

### **SECTION 10: Stability and reactivity**

according to UK REACH Regulation

replaces vers.frm:23.03.2021 Revision date: 06.04.2022

MIXOL® Nr. 3 Oxyd-Rehbraun Product code: PES54

Page 7 of 11

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

## 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met. ATEmix calculated: oral: > 2000 mg/kg dermal: > 2000 mg/kg Inhalation (vapour): >20 mg/L (4 h) Inhalation (dust/mist): > 5 mg/L (4h)

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
112-02-7	Cetrimonium chloride							
	oral	LD50 mg/kg	699	Rat	Manufacturer			
	dermal	LD50 mg/kg	528	Rabbit	Manufacturer			
2634-33-5	1,2-benzisothiazol-3(2	2H)-one; 1,2-b	enzisothiazoli	n-3-one				
	oral	LD50 mg/kg	670 - 784	Rat	Manufacturer	OECD 401		
	dermal	LD50 mg/kg	> 2000	Rat	Manufacturer			
	inhalation vapour	ATE	0,5 mg/l					
	inhalation (4 h) dust/mist	LC50	0,5 mg/l	Rat	Manufacturer	OPPTS 870.1300		
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)							
	oral	LD50	64 mg/kg	Rat	Manufacturer			
	dermal	LD50 mg/kg	92,4	Rabbit	Manufacturer			
	inhalation vapour	ATE	0,5 mg/l					
	inhalation (4 h) dust/mist	LC50 mg/l	0,171	Rat	Manufacturer			

Irritation and corrosivity

according to UK REACH Regulation

Revision date: 06.04.2022

MIXOL® Nr. 3 Oxyd-Rehbraun Product code: PES54

Page 8 of 11

Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Result / Evaluation: non-irritant. (Rabbit)

Method: OECD 404

Test was carried out with a similar formulation. (By analogy.)

Serious eye damage/eye irritation: Result / Evaluation: non-irritant. (Rabbit) Method: OECD 405

Test was carried out with a similar formulation. (By analogy.)

## Sensitising effects

Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

## Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

### STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

### **SECTION 12: Ecological information**

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
112-02-7	Cetrimonium chloride				_		
	Acute algae toxicity	ErC50 mg/l	0,08	72 h	Pseudokirchneriella subcapitata	Manufacturer	OECD 201
	Acute crustacea toxicity	EC50 mg/l	0,09	48 h	Daphnia magna (Big water flea)	Manufacturer	OECD 202
	Crustacea toxicity	NOEC mg/l	0,0068		Daphnia magna (Big water flea)	Manufacturer	OECD 211
2634-33-5	1,2-benzisothiazol-3(2H)-	one; 1,2-ber	nzisothiazolin	-3-one	-		
	Acute algae toxicity	ErC50 mg/l	0,155	72 h	Selenastrum capricornutum	Manufacturer	OECD 201
	Fish toxicity	NOEC mg/l	0,21	28 d	Oncorhynchus mykiss (Rainbow trout)	Manufacturer	OECD 215
	Acute bacteria toxicity	(EC50	23 mg/l)	3 h	Activated sludge	Manufacturer	OECD 209
55965-84-9	reaction mass of 5-chloro-	-2-methyl-2H	l-isothiazol-3	B-one and	d 2-methyl-2H-isothiazol-	3-one (3:1)	
	Acute bacteria toxicity	(EC50 mg/l)	7,92	3 h	Activated sludge	Manufacturer	OECD 209

### 12.2. Persistence and degradability

The product has not been tested.

according to UK REACH Regulation

replaces ve	ers.frm:23.03.2021	MIXOL® Nr. 3 Oxyd-Rehbraun		
Revision da	te: 06.04.2022	Product code: PES54		Page 9 of
CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation		-	
112-02-7	Cetrimonium chloride			
	OECD 301B	93,5 %	28	Manufacturer
	Readily biodegradable	(according to OECD criteria).		
	cumulative potential product has not been teste	d.		
Partition co	pefficient n-octanol/water			
CAS No	Chemical name			Log Pow
112-02-7	Cetrimonium chloride			3,08

BCF		8
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	-0,71 - 0,75
112-02-7	Cetrimonium chloride	3,08

#### CAS No BCF Chemical name Species Source 112-02-7 Cetrimonium chloride 70,8 Manufacturer 2634-33-5 1,2-benzisothiazol-3(2H)-one; Lepomis macrochirus 6,62 Manufacturer 1,2-benzisothiazolin-3-one (Bluegill) 55965-84-9 reaction mass of 3.6 Manufacturer 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

### 12.4. Mobility in soil

The product has not been tested.

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### 12.6. Other adverse effects

No information available.

#### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

### Land transport (ADR/RID)

| <u>14.1. UN number:</u>           | No dangerous good in sense of this transport regulation. |
|-----------------------------------|----------------------------------------------------------|
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |

#### Inland waterways transport (ADN)

according to UK REACH Regulation

|                                                                                                                                                                                                                                                                                        | MIXOL® Nr. 3 Oxyd-Rehbraun                                                                                                                                  |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Revision date: 06.04.2022                                                                                                                                                                                                                                                              | Product code: PES54                                                                                                                                         | Page 10 of 1 |
| <u>14.1. UN number:</u>                                                                                                                                                                                                                                                                | No dangerous good in sense of this transport regulation.                                                                                                    |              |
| 14.2. UN proper shipping name:                                                                                                                                                                                                                                                         | No dangerous good in sense of this transport regulation.                                                                                                    |              |
| 14.3. Transport hazard class(es):                                                                                                                                                                                                                                                      | No dangerous good in sense of this transport regulation.                                                                                                    |              |
| 14.4. Packing group:                                                                                                                                                                                                                                                                   | No dangerous good in sense of this transport regulation.                                                                                                    |              |
| Marine transport (IMDG)                                                                                                                                                                                                                                                                |                                                                                                                                                             |              |
| <u>14.1. UN number:</u>                                                                                                                                                                                                                                                                | No dangerous good in sense of this transport regulation.                                                                                                    |              |
| 14.2. UN proper shipping name:                                                                                                                                                                                                                                                         | No dangerous good in sense of this transport regulation.                                                                                                    |              |
| 14.3. Transport hazard class(es):                                                                                                                                                                                                                                                      | No dangerous good in sense of this transport regulation.                                                                                                    |              |
| 14.4. Packing group:                                                                                                                                                                                                                                                                   | No dangerous good in sense of this transport regulation.                                                                                                    |              |
| Air transport (ICAO-TI/IATA-DGR)                                                                                                                                                                                                                                                       |                                                                                                                                                             |              |
| <u>14.1. UN number:</u>                                                                                                                                                                                                                                                                | No dangerous good in sense of this transport regulation.                                                                                                    |              |
| 14.2. UN proper shipping name:                                                                                                                                                                                                                                                         | No dangerous good in sense of this transport regulation.                                                                                                    |              |
| 14.3. Transport hazard class(es):                                                                                                                                                                                                                                                      | No dangerous good in sense of this transport regulation.                                                                                                    |              |
| 14.4. Packing group:                                                                                                                                                                                                                                                                   | No dangerous good in sense of this transport regulation.                                                                                                    |              |
| 14.5. Environmental hazards                                                                                                                                                                                                                                                            |                                                                                                                                                             |              |
| ENVIRONMENTALLY HAZARDOUS:                                                                                                                                                                                                                                                             | No                                                                                                                                                          |              |
| <ul> <li><u>14.6. Special precautions for user</u></li> <li>No information available.</li> <li><u>14.7. Transport in bulk according to Annex</u></li> </ul>                                                                                                                            | l of Marpol and the IBC Code                                                                                                                                |              |
| not applicable                                                                                                                                                                                                                                                                         | <u></u>                                                                                                                                                     |              |
| SECTION 15: Regulatory information                                                                                                                                                                                                                                                     |                                                                                                                                                             |              |
| 15.1. Safety, health and environmental regu                                                                                                                                                                                                                                            | ations/legislation specific for the substance or mixture                                                                                                    |              |
|                                                                                                                                                                                                                                                                                        |                                                                                                                                                             |              |
| EU regulatory information                                                                                                                                                                                                                                                              |                                                                                                                                                             |              |
| EU regulatory information<br>Restrictions on use (REACH, annex XVII):                                                                                                                                                                                                                  |                                                                                                                                                             |              |
|                                                                                                                                                                                                                                                                                        |                                                                                                                                                             |              |
| Restrictions on use (REACH, annex XVII):                                                                                                                                                                                                                                               | < 34 %                                                                                                                                                      |              |
| Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75                                                                                                                                                                                                                          | < 34 %<br>Not subject to 2012/18/EU (SEVESO III)                                                                                                            |              |
| Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU                                                                                                                                                              |                                                                                                                                                             |              |
| Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU<br>(SEVESO III):                                                                                                                                             |                                                                                                                                                             | nile         |
| Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU<br>(SEVESO III):<br>National regulatory information                                                                                                          | Not subject to 2012/18/EU (SEVESO III)<br>Observe restrictions to employment for juveniles according to the 'juve                                           | enile        |
| Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU<br>(SEVESO III):<br><b>National regulatory information</b><br>Employment restrictions:<br>Water hazard class (D):                                            | Not subject to 2012/18/EU (SEVESO III)<br>Observe restrictions to employment for juveniles according to the 'juve<br>work protection guideline' (94/33/EC). | nile         |
| Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU<br>(SEVESO III):<br><b>National regulatory information</b><br>Employment restrictions:<br>Water hazard class (D):<br><b>15.2. Chemical safety assessment</b> | Not subject to 2012/18/EU (SEVESO III)<br>Observe restrictions to employment for juveniles according to the 'juve<br>work protection guideline' (94/33/EC). | enile        |

### CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

according to UK REACH Regulation

Revision date: 06.04.2022

MIXOL® Nr. 3 Oxyd-Rehbraun Product code: PES54

Page 11 of 11

LC50: Lethal concentration, 50% LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: verv persistent, verv bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) IMDG: International Maritime Code for Dangerous Goods EmS: Emergency Schedules MFAG: Medical First Aid Guide IATA: International Air Transport Association ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Aquatic Chronic 3; H412 | Calculation method       |

#### Relevant H and EUH statements (number and full text)

| H301   | Toxic if swallowed.                                                                                                                                                                                        |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H302   | Harmful if swallowed.                                                                                                                                                                                      |
| H310   | Fatal in contact with skin.                                                                                                                                                                                |
| H311   | Toxic in contact with skin.                                                                                                                                                                                |
| H314   | Causes severe skin burns and eye damage.                                                                                                                                                                   |
| H315   | Causes skin irritation.                                                                                                                                                                                    |
| H317   | May cause an allergic skin reaction.                                                                                                                                                                       |
| H318   | Causes serious eye damage.                                                                                                                                                                                 |
| H330   | Fatal if inhaled.                                                                                                                                                                                          |
| H400   | Very toxic to aquatic life.                                                                                                                                                                                |
| H410   | Very toxic to aquatic life with long lasting effects.                                                                                                                                                      |
| H411   | Toxic to aquatic life with long lasting effects.                                                                                                                                                           |
| H412   | Harmful to aquatic life with long lasting effects.                                                                                                                                                         |
| EUH071 | Corrosive to the respiratory tract.                                                                                                                                                                        |
| EUH208 | Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5<br>-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce<br>an allergic reaction. |

#### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

according to UK REACH Regulation

Revision date: 06.04.2022

MIXOL® Nr. 4 Oxyd-Rot Product code: PES55

Page 1 of 11

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

MIXOL® Nr. 4 Oxyd-Rot

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Colour, Pigment

## 1.3. Details of the supplier of the safety data sheet

| Company name:            | MIXOL-PRODUKTE Diebold GmbH       |                              |
|--------------------------|-----------------------------------|------------------------------|
| Street:                  | Carl-Zeiss-Str. 17-19             |                              |
| Place:                   | D-73230 Kirchheim/Teck            |                              |
| Telephone:               | +49/(0)7021 / 950090              | Telefax: +49/(0)7021 / 56030 |
| e-mail:                  |                                   |                              |
| e-mail (Contact person): | Technik@mixol.de                  |                              |
| Internet:                |                                   |                              |
| Responsible Department:  | Technik                           |                              |
| 1.4. Emergency telephone | Emergency CONTACT (24 h) GBK GmbH | 1 +49/(0)6132 / 84463        |

#### <u>number:</u>

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

GB CLP Regulation

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

**GB CLP Regulation** 

#### Hazard statements

H412

Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

| P273 | Avoid release to the environment.                     |
|------|-------------------------------------------------------|
| P501 | Dispose of waste according to applicable legislation. |

#### Special labelling of certain mixtures

Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5 -chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

#### 2.3. Other hazards

EUH208

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

according to UK REACH Regulation

replaces vers.frm: 23.03.2021

MIXOL® Nr. 4 Oxyd-Rot

Revision date: 06.04.2022

Product code: PES55

Page 2 of 11

## Hazardous components

| CAS No     | Chemical name                                                                                                                                                          |                          |                  |  |  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------|--|--|
|            | EC No                                                                                                                                                                  | Index No                 | REACH No         |  |  |
|            | GHS Classification                                                                                                                                                     |                          |                  |  |  |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd., ethoxylated                                                                                                                          |                          |                  |  |  |
|            | 500-236-9                                                                                                                                                              |                          |                  |  |  |
|            | Skin Irrit. 2, Aquatic Acute 1, Aquat                                                                                                                                  |                          |                  |  |  |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-b                                                                                                                                    |                          | < 0.1 %          |  |  |
|            | 220-120-9                                                                                                                                                              | 613-088-00-6             | 01-2120761540-60 |  |  |
|            | Acute Tox. 2, Acute Tox. 4, Skin Irr<br>Chronic 2; H330 H302 H315 H318                                                                                                 | atic Acute 1, Aquatic    |                  |  |  |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-                                                                                                                                    | 1-isothiazol-3-one (3:1) | < 0.1 %          |  |  |
|            | -                                                                                                                                                                      | 613-167-00-5             | 01-2120764691-48 |  |  |
|            | Acute Tox. 2, Acute Tox. 2, Acute Tox. 3, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H310 H301 H314 H318 H317 H400 H410 EUH071 |                          |                  |  |  |

Full text of H and EUH statements: see section 16.

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice.

#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical advice/attention.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eve-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

#### After ingestion

Observe risk of aspiration if vomiting occurs. @0405.B004145 Get medical advice/attention.

### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Water spray jet, Extinguishing powder, Carbon dioxide (CO2), alcohol resistant foam.

#### Unsuitable extinguishing media

Full water jet

#### 5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

according to UK REACH Regulation

## replaces vers.frm:23.03.2021 MIXOL® Nr. 4 Oxyd-Rot

Revision date: 06.04.2022

Product code: PES55

Page 3 of 11

## 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### 6.3. Methods and material for containment and cleaning up

Clean contaminated articles and floor according to the environmental legislation.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray. Use personal protection equipment.

#### Advice on protection against fire and explosion

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

#### Further information on handling

Handle and open container with care.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

No information available.

### Further information on storage conditions

storage stability: >= 36 month(s)

#### 7.3. Specific end use(s)

Colour, Pigment

### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

according to UK REACH Regulation

replaces vers.frm: 23.03.2021

# MIXOL® Nr. 4 Oxyd-Rot

Revision date: 06.04.2022

Product code: PES55

Page 4 of 11

## Exposure limits (EH40)

| CAS No    | Substance                          | ppm | mg/m³ | fibres/ml | Category      | Origin |
|-----------|------------------------------------|-----|-------|-----------|---------------|--------|
| 1309-37-1 | Iron oxide, fume (as Fe)           | -   | 5     |           | TWA (8 h)     | WEL    |
|           |                                    | -   | 10    |           | STEL (15 min) | WEL    |
| 1309-37-1 | Rouge, respirable                  | -   | 4     |           | TWA (8 h)     | WEL    |
| 1309-37-1 | Rouge, total inhalable             | -   | 10    |           | TWA (8 h)     | WEL    |
| -         | Silica, amorphous, inhalable dust  | -   | 6     |           | TWA (8 h)     | WEL    |
| -         | Silica, amorphous, respirable dust | -   | 2.4   |           | TWA (8 h)     | WEL    |

## **DNEL/DMEL** values

| CAS No                   | Substance                                                 |                         |               |                        |  |  |
|--------------------------|-----------------------------------------------------------|-------------------------|---------------|------------------------|--|--|
| DNEL type                |                                                           | Exposure route          | Effect        | Value                  |  |  |
| 2634-33-5                | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one  |                         |               |                        |  |  |
| Worker DNEL              | , long-term                                               | inhalation              | systemic      | 6,81 mg/m³             |  |  |
| Worker DNEL              | , long-term                                               | dermal                  | systemic      | 0,966 mg/kg<br>bw/day  |  |  |
| Consumer DN              | EL, long-term                                             | inhalation              | systemic      | 1,2 mg/m³              |  |  |
| Consumer DN              | EL, long-term                                             | dermal                  | systemic      | 0,345 mg/kg<br>bw/day  |  |  |
| 55965-84-9               | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one an | d 2-methyl-2H-isothiazo | I-3-one (3:1) |                        |  |  |
| Worker DNEL              | , long-term                                               | inhalation              | local         | 0,02 mg/m³             |  |  |
| Worker DNEL              | , acute                                                   | inhalation              | local         | 0,04 mg/m <sup>3</sup> |  |  |
| Consumer DN              | EL, long-term                                             | inhalation              | local         | 0,02 mg/m <sup>3</sup> |  |  |
| Consumer DNEL, acute     |                                                           | inhalation              | local         | 0,04 mg/m <sup>3</sup> |  |  |
| Consumer DNEL, long-term |                                                           | oral                    | systemic      | 0,11 mg/kg<br>bw/day   |  |  |
| Consumer DN              | EL, acute                                                 | oral                    | systemic      | 0,09 mg/kg<br>bw/day   |  |  |

according to UK REACH Regulation

replaces vers.frm: 23.03.2021

MIXOL® Nr. 4 Oxyd-Rot

Revision date: 06.04.2022

Product code: PES55

Page 5 of 11

#### **PNEC** values

| CAS No                                                                                                   | Substance               |               |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------|-------------------------|---------------|--|--|--|--|--|
| Environmental compartment Value                                                                          |                         |               |  |  |  |  |  |
| 2634-33-5 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                                       |                         |               |  |  |  |  |  |
| Freshwater                                                                                               |                         | 0,00403 mg/l  |  |  |  |  |  |
| Freshwater (i                                                                                            | ntermittent releases)   | 0,0011 mg/l   |  |  |  |  |  |
| Marine water                                                                                             |                         | 0,000403 mg/l |  |  |  |  |  |
| Marine water                                                                                             | (intermittent releases) | 0,0011 mg/l   |  |  |  |  |  |
| Freshwater se                                                                                            | ediment                 | 0,0499 mg/kg  |  |  |  |  |  |
| Marine sedim                                                                                             | ent                     | 0,00499 mg/kg |  |  |  |  |  |
| Micro-organisms in sewage treatment plants (STP) 1,03 mg/l                                               |                         |               |  |  |  |  |  |
| Soil                                                                                                     | 3 mg/kg                 |               |  |  |  |  |  |
| 55965-84-9 reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |                         |               |  |  |  |  |  |
| Freshwater                                                                                               |                         | 0,00339 mg/l  |  |  |  |  |  |
| Freshwater (i                                                                                            | ntermittent releases)   | 0,00339 mg/l  |  |  |  |  |  |
| Marine water                                                                                             |                         | 0,00339 mg/l  |  |  |  |  |  |
| Marine water (intermittent releases) 0,00339 mg/l                                                        |                         |               |  |  |  |  |  |
| Freshwater sediment 0                                                                                    |                         |               |  |  |  |  |  |
| Marine sediment                                                                                          |                         |               |  |  |  |  |  |
| Micro-organisms in sewage treatment plants (STP) 0,23 mg/l                                               |                         |               |  |  |  |  |  |
| Soil 0,01 mg/kg                                                                                          |                         |               |  |  |  |  |  |

### 8.2. Exposure controls



## Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

#### Protective and hygiene measures

Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work. Draw up and observe skin protection programme. Use protective skin cream before handling the product. When using do not eat, drink, smoke, sniff.

#### Eye/face protection

Wear eye/face protection.

#### Hand protection

Wear protective gloves.

Suitable material: NBR (Nitrile rubber)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties of the material must be taken into consideration.

#### Skin protection

Use of protective clothing.

according to UK REACH Regulation

## replaces vers.frm:23.03.2021 MIXOL® Nr. 4 Oxyd-Rot

Revision date: 06.04.2022

Product code: PES55

Page 6 of 11

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### **SECTION 9: Physical and chemical properties** 9.1. Information on basic physical and chemical properties Physical state: Liquid (Dispersion) Colour: red Odour: odourless pH-Value: not determined Changes in the physical state not determined Melting point/freezing point: Boiling point or initial boiling point and 100 °C boiling range: Flash point: > 100 °C Flammability Solid: not applicable Gas: not applicable Lower explosion limits: not determined Upper explosion limits: not determined not determined Auto-ignition temperature: > 100 °C Decomposition temperature: not determined Vapour pressure: Density (at 20 °C): 1,59 g/cm<sup>3</sup> Water solubility: miscible Solubility in other solvents not determined Partition coefficient n-octanol/water: not determined Viscosity / kinematic: not determined not determined Relative vapour density: 9.2. Other information No information available.

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

## 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

## 10.5. Incompatible materials

No information available.

according to UK REACH Regulation

replaces vers.frm:23.03.2021 Revision date: 06.04.2022

MIXOL® Nr. 4 Oxyd-Rot Product code: PES55

Page 7 of 11

#### 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met. ATEmix calculated: oral: > 2000 mg/kg dermal: > 2000 mg/kg Inhalation (vapour): >20 mg/L (4 h) Inhalation (dust/mist): > 5 mg/L (4h)

| CAS No     | Chemical name                 |                                                          |                |                          |                       |                |  |  |
|------------|-------------------------------|----------------------------------------------------------|----------------|--------------------------|-----------------------|----------------|--|--|
|            | Exposure route                | Dose                                                     |                | Species                  | Source                | Method         |  |  |
| 2634-33-5  | 1,2-benzisothiazol-3(2        | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one |                |                          |                       |                |  |  |
|            | oral                          | LD50<br>mg/kg                                            | 670 - 784      | Rat                      | Manufacturer          | OECD 401       |  |  |
|            | dermal                        | LD50<br>mg/kg                                            | > 2000         | Rat                      | Manufacturer          |                |  |  |
|            | inhalation vapour             | ATE                                                      | 0,5 mg/l       |                          |                       |                |  |  |
|            | inhalation (4 h)<br>dust/mist | LC50                                                     | 0,5 mg/l       | Rat                      | Manufacturer          | OPPTS 870.1300 |  |  |
| 55965-84-9 | reaction mass of 5-ch         | loro-2-methyl-                                           | 2H-isothiazol- | 3-one and 2-methyl-2H-is | sothiazol-3-one (3:1) |                |  |  |
|            | oral                          | LD50                                                     | 64 mg/kg       | Rat                      | Manufacturer          |                |  |  |
|            | dermal                        | LD50<br>mg/kg                                            | 92,4           | Rabbit                   | Manufacturer          |                |  |  |
|            | inhalation vapour             | ATE                                                      | 0,5 mg/l       |                          |                       |                |  |  |
|            | inhalation (4 h)<br>dust/mist | LC50<br>mg/l                                             | 0,171          | Rat                      | Manufacturer          |                |  |  |

#### Irritation and corrosivity

Based on available data, the classification criteria are not met. Skin corrosion/irritation:

Result / Evaluation: non-irritant. (Rabbit)

Method: OECD 404

Test was carried out with a similar formulation. (By analogy.)

Serious eye damage/eye irritation: Result / Evaluation: non-irritant. (Rabbit) Method: OECD 405 Test was carried out with a similar formulation. (By analogy.)

#### Sensitising effects

Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

## Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

## STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

according to UK REACH Regulation

replaces vers.frm:23.03.2021

MIXOL® Nr. 4 Oxyd-Rot Product code: PES55

Page 8 of 11

Revision date: 06.04.2022

## Aspiration hazard

Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

| CAS No     | Chemical name                                                                                 |                |          |           |                                        |              |          |  |  |
|------------|-----------------------------------------------------------------------------------------------|----------------|----------|-----------|----------------------------------------|--------------|----------|--|--|
|            | Aquatic toxicity                                                                              | Dose           |          | [h]   [d] | Species                                | Source       | Method   |  |  |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                                      |                |          |           |                                        |              |          |  |  |
|            | Acute algae toxicity                                                                          | ErC50<br>mg/l  | 0,155    |           | Selenastrum<br>capricornutum           | Manufacturer | OECD 201 |  |  |
|            | Fish toxicity                                                                                 | NOEC<br>mg/l   | 0,21     |           | Oncorhynchus mykiss<br>(Rainbow trout) | Manufacturer | OECD 215 |  |  |
|            | Acute bacteria toxicity                                                                       | (EC50          | 23 mg/l) | 3 h       | Activated sludge                       | Manufacturer | OECD 209 |  |  |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |                |          |           |                                        |              |          |  |  |
|            | Acute bacteria toxicity                                                                       | (EC50<br>mg/l) | 7,92     | 3 h       | Activated sludge                       | Manufacturer | OECD 209 |  |  |

#### 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

The product has not been tested.

## Partition coefficient n-octanol/water

| CAS No     | Chemical name                                                                                 | Log Pow      |
|------------|-----------------------------------------------------------------------------------------------|--------------|
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | -0,71 - 0,75 |

#### BCF

| CAS No     | Chemical name                                                                                       | BCF  | Species                           | Source       |
|------------|-----------------------------------------------------------------------------------------------------|------|-----------------------------------|--------------|
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one;<br>1,2-benzisothiazolin-3-one                                         | 6,62 | Lepomis macrochirus<br>(Bluegill) | Manufacturer |
| 55965-84-9 | reaction mass of<br>5-chloro-2-methyl-2H-isothiazol-3-one<br>and 2-methyl-2H-isothiazol-3-one (3:1) | 3,6  |                                   | Manufacturer |

#### 12.4. Mobility in soil

The product has not been tested.

### 12.6. Other adverse effects

No information available.

## **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

according to UK REACH Regulation

replaces vers.frm:23.03.2021 Revision date: 06.04.2022

MIXOL® Nr. 4 Oxyd-Rot Product code: PES55

Page 9 of 11

## **SECTION 14: Transport information**

| Land transport (ADR/RID)          |                                                          |
|-----------------------------------|----------------------------------------------------------|
| <u>14.1. UN number:</u>           | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |
|                                   |                                                          |

| Inland waterways transport (ADN)              |                                                          |
|-----------------------------------------------|----------------------------------------------------------|
| <u>14.1. UN number:</u>                       | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name:                | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es):             | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:                          | No dangerous good in sense of this transport regulation. |
| Marine transport (IMDG)                       |                                                          |
| <u>14.1. UN number:</u>                       | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name:                | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es):             | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:                          | No dangerous good in sense of this transport regulation. |
| Air transport (ICAO-TI/IATA-DGR)              |                                                          |
| <u>14.1. UN number:</u>                       | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name:                | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es):             | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:                          | No dangerous good in sense of this transport regulation. |
| 14.5. Environmental hazards                   |                                                          |
| ENVIRONMENTALLY HAZARDOUS:                    | No                                                       |
| 14.6. Special precautions for user            |                                                          |
| No information available.                     |                                                          |
| 14.7. Transport in bulk according to Annex II | of Marpol and the IBC Code                               |
| not applicable                                |                                                          |
| SECTION 15: Regulatory information            |                                                          |
|                                               |                                                          |

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

| EU regulatory information                            |                                                                                                                    |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Restrictions on use (REACH, annex XVII               | ı):                                                                                                                |
| Entry 3, Entry 75                                    |                                                                                                                    |
| 2004/42/EC (VOC):                                    | < 50 %                                                                                                             |
| Information according to 2012/18/EU<br>(SEVESO III): | Not subject to 2012/18/EU (SEVESO III)                                                                             |
| National regulatory information                      |                                                                                                                    |
| Employment restrictions:                             | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). |
| Water hazard class (D):                              | 2 - obviously hazardous to water                                                                                   |

according to UK REACH Regulation

replaces vers.frm:23.03.2021 Revision date: 06.04.2022

MIXOL® Nr. 4 Oxyd-Rot Product code: PES55

Page 10 of 11

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## **SECTION 16: Other information**

## Abbreviations and acronyms

| • | breviations and deronyms                                                                                 |
|---|----------------------------------------------------------------------------------------------------------|
|   | CLP: Classification, labelling and Packaging                                                             |
|   | REACH: Registration, Evaluation and Authorization of Chemicals                                           |
|   | GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals                  |
|   | UN: United Nations                                                                                       |
|   | CAS: Chemical Abstracts Service                                                                          |
|   | DNEL: Derived No Effect Level                                                                            |
|   | DMEL: Derived Minimal Effect Level                                                                       |
|   | PNEC: Predicted No Effect Concentration                                                                  |
|   | ATE: Acute toxicity estimate                                                                             |
|   | LC50: Lethal concentration, 50%                                                                          |
|   | LD50: Lethal dose, 50%                                                                                   |
|   | LL50: Lethal loading, 50%                                                                                |
|   | EL50: Effect loading, 50%                                                                                |
|   | EC50: Effective Concentration 50%                                                                        |
|   | ErC50: Effective Concentration 50%, growth rate                                                          |
|   | NOEC: No Observed Effect Concentration                                                                   |
|   | BCF: Bio-concentration factor                                                                            |
|   | PBT: persistent, bioaccumulative, toxic                                                                  |
|   | vPvB: very persistent, very bioaccumulative                                                              |
|   | ADR: Accord européen sur le transport des marchandises dangereuses par Route                             |
|   | (European Agreement concerning the International Carriage of Dangerous Goods by Road)                    |
|   | RID: Regulations concerning the international carriage of dangerous goods by rail                        |
|   | ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways     |
|   | (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation |
|   | intérieures)                                                                                             |
|   | IMDG: International Maritime Code for Dangerous Goods                                                    |
|   | EmS: Emergency Schedules                                                                                 |
|   | MFAG: Medical First Aid Guide                                                                            |
|   | IATA: International Air Transport Association                                                            |
|   | ICAO: International Civil Aviation Organization                                                          |
|   | MARPOL: International Convention for the Prevention of Marine Pollution from Ships                       |
|   | IBC: Intermediate Bulk Container                                                                         |
|   | VOC: Volatile Organic Compounds                                                                          |
|   | SVHC: Substance of Very High Concern                                                                     |
|   | For abbreviations and acronyms, see table at http://abbrev.esdscom.eu                                    |
|   |                                                                                                          |

### Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification                                       | Classification procedure |  |  |
|------------------------------------------------------|--------------------------|--|--|
| Aquatic Chronic 3; H412                              | Calculation method       |  |  |
| Relevant H and EUH statements (number and full text) |                          |  |  |

| H301 | Toxic if swallowed.                      |
|------|------------------------------------------|
| H302 | Harmful if swallowed.                    |
| H310 | Fatal in contact with skin.              |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation.                  |
| H317 | May cause an allergic skin reaction.     |
| H318 | Causes serious eye damage.               |
| H330 | Fatal if inhaled.                        |
| H400 | Very toxic to aquatic life.              |
|      |                                          |

according to UK REACH Regulation

| replaces vers.frm:23.03.202                                                                                                                                                                                                   | <sup>1</sup> MIXOL® Nr. 4 Oxyd-Rot                    |               |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------|--|--|--|
| Revision date: 06.04.2022                                                                                                                                                                                                     | Product code: PES55                                   | Page 11 of 11 |  |  |  |
| H410                                                                                                                                                                                                                          | Very toxic to aquatic life with long lasting effects. |               |  |  |  |
| H411                                                                                                                                                                                                                          | Toxic to aquatic life with long lasting effects.      |               |  |  |  |
| H412                                                                                                                                                                                                                          | Harmful to aquatic life with long lasting effects.    |               |  |  |  |
| EUH071                                                                                                                                                                                                                        | Corrosive to the respiratory tract.                   |               |  |  |  |
| EUH208                                                                                                                                                                                                                        |                                                       |               |  |  |  |
| Further Information                                                                                                                                                                                                           |                                                       |               |  |  |  |
| The information is based on the present level of our knowledge. It does not, however, give assurance of<br>product properties and establishes no contract legal rights. The receiver of our product is singularly responsible |                                                       |               |  |  |  |

for adhering to existing laws and regulations. (The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety

data sheet.)

according to UK REACH Regulation

|                                                                                                                                                                                                                   |                  | according to UK REACH Re                             | egulation                               |              |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------|-----------------------------------------|--------------|--|
| replaces vers.frm:23.03.2                                                                                                                                                                                         | 2021             | MIXOL® Nr. 5 Oxyd-O                                  | cker                                    |              |  |
| Revision date: 06.04.2022                                                                                                                                                                                         | 2                | Product code: PES5                                   | 6                                       | Page 1 of 11 |  |
| SECTION 1: Identificat                                                                                                                                                                                            | tion of the su   | bstance/mixture and of the comp                      | pany/undertaking                        |              |  |
| 1.1. Product identifier                                                                                                                                                                                           |                  |                                                      |                                         |              |  |
| MIXOL® Nr. 5 O                                                                                                                                                                                                    | xyd-Ocker        |                                                      |                                         |              |  |
| 1.2. Relevant identified u                                                                                                                                                                                        | ises of the sub  | ostance or mixture and uses advised                  | l against                               |              |  |
| Use of the substance<br>Colour, Pigment                                                                                                                                                                           | /mixture         |                                                      |                                         |              |  |
| 1.3. Details of the supplie                                                                                                                                                                                       | er of the safety |                                                      |                                         |              |  |
| Company name:<br>Street:                                                                                                                                                                                          |                  | MIXOL-PRODUKTE Diebold GmbH<br>Carl-Zeiss-Str. 17-19 |                                         |              |  |
| Place:                                                                                                                                                                                                            |                  | D-73230 Kirchheim/Teck                               |                                         |              |  |
| Telephone:                                                                                                                                                                                                        |                  | +49/(0)7021 / 950090                                 | Telefax: +49/(0)7021 / 56030            |              |  |
| e-mail:                                                                                                                                                                                                           | - ) -            | Ta alamila Querina I ala                             |                                         |              |  |
| e-mail (Contact person<br>Internet:                                                                                                                                                                               | 1):              | Technik@mixol.de                                     |                                         |              |  |
| Responsible Departme                                                                                                                                                                                              | ent:             | Technik                                              |                                         |              |  |
| 1.4. Emergency telephon                                                                                                                                                                                           | <u>10</u>        | Emergency CONTACT (24 h) GBK G                       | SmbH +49/(0)6132 / 84463                |              |  |
| <u>number:</u>                                                                                                                                                                                                    |                  |                                                      |                                         |              |  |
| SECTION 2: Hazards in                                                                                                                                                                                             | dentification    |                                                      |                                         |              |  |
| 2.1. Classification of the                                                                                                                                                                                        | substance or     | mixture                                              |                                         |              |  |
| GB CLP Regulation                                                                                                                                                                                                 |                  |                                                      |                                         |              |  |
| Aquatic Chronic 3;                                                                                                                                                                                                | H412             |                                                      |                                         |              |  |
| Full text of hazard                                                                                                                                                                                               | statements: se   | e SECTION 16.                                        |                                         |              |  |
| 2.2. Label elements                                                                                                                                                                                               |                  |                                                      |                                         |              |  |
| GB CLP Regulation                                                                                                                                                                                                 |                  |                                                      |                                         |              |  |
| Hazard statements                                                                                                                                                                                                 |                  |                                                      |                                         |              |  |
| H412                                                                                                                                                                                                              | Harmful to       | aquatic life with long lasting effects.              |                                         |              |  |
| Precautionary statem                                                                                                                                                                                              | ents             |                                                      |                                         |              |  |
| P273                                                                                                                                                                                                              |                  | ase to the environment.                              | 4                                       |              |  |
| P501 Dispose of waste according to applicable legislation.                                                                                                                                                        |                  |                                                      |                                         |              |  |
| Special labelling of ce<br>EUH208                                                                                                                                                                                 |                  |                                                      | zisothiazolin-3-one. reaction mass of 5 |              |  |
| EUH208 Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5<br>-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce<br>an allergic reaction. |                  |                                                      |                                         |              |  |
| 2.3. Other hazards                                                                                                                                                                                                |                  |                                                      |                                         |              |  |
| The substances in                                                                                                                                                                                                 | the mixture do   | o not meet the PBT/vPvB criteria accor               | rding to REACH, annex XIII.             |              |  |
| SECTION 3: Composit                                                                                                                                                                                               | ion/informati    | on on ingredients                                    |                                         |              |  |
| and a second                                                                                                    |                  |                                                      |                                         |              |  |

## 3.2. Mixtures

according to UK REACH Regulation

replaces vers.frm:23.03.2021 Revision date: 06.04.2022

MIXOL® Nr. 5 Oxyd-Ocker Product code: PES56

Page 2 of 11

#### Hazardous components

| CAS No     | Chemical name                                                                                                                                                          |                              |                  |             |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------|-------------|
|            | EC No                                                                                                                                                                  | Index No                     | REACH No         |             |
|            | GHS Classification                                                                                                                                                     | •                            | •                |             |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd.,                                                                                                                                      | ethoxylated                  |                  | 10 - < 15 % |
|            | 500-236-9                                                                                                                                                              |                              |                  |             |
|            | Skin Irrit. 2, Aquatic Acute 1, Aquat                                                                                                                                  | ic Chronic 3; H315 H400 H412 | ·                |             |
| 112-02-7   | Cetrimonium chloride                                                                                                                                                   |                              |                  | < 1 %       |
|            | 203-928-6                                                                                                                                                              |                              |                  |             |
|            | Acute Tox. 3, Acute Tox. 4, Skin Co<br>H302 H314 H318 H400 H410                                                                                                        | , Aquatic Chronic 1; H311    |                  |             |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-b                                                                                                                                    |                              | < 0.1 %          |             |
|            | 220-120-9                                                                                                                                                              | 613-088-00-6                 | 01-2120761540-60 |             |
|            | Acute Tox. 2, Acute Tox. 4, Skin Irr<br>Chronic 2; H330 H302 H315 H318                                                                                                 | atic Acute 1, Aquatic        |                  |             |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-                                                                                                                                    | H-isothiazol-3-one (3:1)     | < 0.1 %          |             |
|            | -                                                                                                                                                                      | 613-167-00-5                 | 01-2120764691-48 |             |
|            | Acute Tox. 2, Acute Tox. 2, Acute Tox. 3, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H310 H301 H314 H318 H317 H400 H410 EUH071 |                              |                  |             |

Full text of H and EUH statements: see section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

When in doubt or if symptoms are observed, get medical advice.

#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical advice/attention.

### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician. After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

#### After ingestion

Observe risk of aspiration if vomiting occurs. @0405.B004145 Get medical advice/attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

according to UK REACH Regulation

replaces vers.frm:23.03.2021 Revision date: 06.04.2022

MIXOL® Nr. 5 Oxyd-Ocker Product code: PES56

Page 3 of 11

Water spray jet, Extinguishing powder, Carbon dioxide (CO2), alcohol resistant foam.

#### Unsuitable extinguishing media

Full water jet

## 5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### 6.3. Methods and material for containment and cleaning up

Clean contaminated articles and floor according to the environmental legislation.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8

Disposal: see section 13

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray. Use personal protection equipment.

### Advice on protection against fire and explosion

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

### Further information on handling

Handle and open container with care.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

## Hints on joint storage

No information available.

## Further information on storage conditions

storage stability: >= 36 month(s)

## 7.3. Specific end use(s)

Colour, Pigment

#### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

according to UK REACH Regulation

replaces vers.frm:23.03.2021 Revision date: 06.04.2022

MIXOL® Nr. 5 Oxyd-Ocker Product code: PES56

Page 4 of 11

## Exposure limits (EH40)

| CAS No | Substance                          | ppm | mg/m³ | fibres/ml | Category      | Origin |
|--------|------------------------------------|-----|-------|-----------|---------------|--------|
| -      | Iron salts (as Fe)                 | -   | 1     |           | TWA (8 h)     | WEL    |
|        |                                    | -   | 2     |           | STEL (15 min) | WEL    |
| -      | Silica, amorphous, inhalable dust  | -   | 6     |           | TWA (8 h)     | WEL    |
| -      | Silica, amorphous, respirable dust | -   | 2.4   |           | TWA (8 h)     | WEL    |

## **DNEL/DMEL** values

| CAS No                   | Substance                                                 |                        |                 |                        |
|--------------------------|-----------------------------------------------------------|------------------------|-----------------|------------------------|
| DNEL type                |                                                           | Exposure route         | Effect          | Value                  |
| 112-02-7                 | Cetrimonium chloride                                      |                        |                 |                        |
| Worker DNEL              | , long-term                                               | inhalation             | systemic        | 3,32 mg/m <sup>3</sup> |
| Worker DNEL              | , long-term                                               | dermal                 | systemic        | 4,7 mg/kg bw/day       |
| Consumer DN              | IEL, long-term                                            | inhalation             | systemic        | 0,98 mg/m³             |
| Consumer DN              | IEL, long-term                                            | dermal                 | systemic        | 2,83 mg/kg<br>bw/day   |
| Consumer DN              | IEL, long-term                                            | oral                   | systemic        | 2,83 mg/kg<br>bw/day   |
| 2634-33-5                | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one  |                        |                 |                        |
| Worker DNEL              | , long-term                                               | inhalation             | systemic        | 6,81 mg/m³             |
| Worker DNEL, long-term   |                                                           | dermal                 | systemic        | 0,966 mg/kg<br>bw/day  |
| Consumer DNEL, long-term |                                                           | inhalation             | systemic        | 1,2 mg/m³              |
| Consumer DN              | IEL, long-term                                            | dermal                 | systemic        | 0,345 mg/kg<br>bw/day  |
| 55965-84-9               | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one ar | nd 2-methyl-2H-isothia | zol-3-one (3:1) |                        |
| Worker DNEL              | , long-term                                               | inhalation             | local           | 0,02 mg/m³             |
| Worker DNEL              | , acute                                                   | inhalation             | local           | 0,04 mg/m³             |
| Consumer DNEL, long-term |                                                           | inhalation             | local           | 0,02 mg/m³             |
| Consumer DNEL, acute     |                                                           | inhalation             | local           | 0,04 mg/m <sup>3</sup> |
| Consumer DN              | IEL, long-term                                            | oral                   | systemic        | 0,11 mg/kg<br>bw/day   |
| Consumer DN              | EL, acute                                                 | oral                   | systemic        | 0,09 mg/kg<br>bw/day   |

according to UK REACH Regulation

replaces vers.frm:23.03.2021 Revision date: 06.04.2022

MIXOL® Nr. 5 Oxyd-Ocker Product code: PES56

Page 5 of 11

#### **PNEC** values

| CAS No        | Substance                                                                              |               |
|---------------|----------------------------------------------------------------------------------------|---------------|
| Environmenta  | al compartment                                                                         | Value         |
| 112-02-7      | Cetrimonium chloride                                                                   |               |
| Freshwater    |                                                                                        | 0,00063 mg/l  |
| Freshwater (i | ntermittent releases)                                                                  | 0,0008 mg/l   |
| Marine water  |                                                                                        | 0,000068 mg/l |
| Freshwater s  | ediment                                                                                | 9,27 mg/kg    |
| Marine sedim  | nent                                                                                   | 0,927 mg/kg   |
| Micro-organis | sms in sewage treatment plants (STP)                                                   | 0,4 mg/l      |
| Soil          |                                                                                        | 7 mg/kg       |
| 2634-33-5     | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                               |               |
| Freshwater    |                                                                                        | 0,00403 mg/l  |
| Freshwater (i | ntermittent releases)                                                                  | 0,0011 mg/l   |
| Marine water  | 0,000403 mg/l                                                                          |               |
| Marine water  | 0,0011 mg/l                                                                            |               |
| Freshwater s  | 0,0499 mg/kg                                                                           |               |
| Marine sedim  | nent                                                                                   | 0,00499 mg/kg |
| Micro-organis | 1,03 mg/l                                                                              |               |
| Soil          |                                                                                        | 3 mg/kg       |
| 55965-84-9    | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-on | ne (3:1)      |
| Freshwater    |                                                                                        | 0,00339 mg/l  |
| Freshwater (i | ntermittent releases)                                                                  | 0,00339 mg/l  |
| Marine water  | 0,00339 mg/l                                                                           |               |
| Marine water  | 0,00339 mg/l                                                                           |               |
| Freshwater s  | 0,027 mg/kg                                                                            |               |
| Marine sedim  | 0,027 mg/kg                                                                            |               |
| Micro-organis | sms in sewage treatment plants (STP)                                                   | 0,23 mg/l     |
| Soil          |                                                                                        | 0,01 mg/kg    |

## 8.2. Exposure controls





## Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

#### Protective and hygiene measures

Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work. Draw up and observe skin protection programme. Use protective skin cream before handling the product. When using do not eat, drink, smoke, sniff.

#### Eye/face protection

Wear eye/face protection.

### Hand protection

Wear protective gloves.

according to UK REACH Regulation

replaces vers.frm: 23.03.2021

## MIXOL® Nr. 5 Oxyd-Ocker

Revision date: 06.04.2022

Product code: PES56

Page 6 of 11

Suitable material: NBR (Nitrile rubber)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties of the material must be taken into consideration.

#### Skin protection

Use of protective clothing.

### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

| Physical state:                                           | Liquid (Dispersion) |                        |
|-----------------------------------------------------------|---------------------|------------------------|
| Colour:                                                   | vellow              |                        |
| Odour:                                                    | odourless           |                        |
| pH-Value:                                                 |                     | not determined         |
| Changes in the physical state                             |                     |                        |
| Melting point/freezing point:                             |                     | not determined         |
| Boiling point or initial boiling point and boiling range: |                     | 100 °C                 |
| Flash point:                                              |                     | > 100 °C               |
| Flammability                                              |                     |                        |
| Solid:                                                    |                     | not applicable         |
| Gas:                                                      |                     | not applicable         |
| Lower explosion limits:                                   |                     | not determined         |
| Upper explosion limits:                                   |                     | not determined         |
| Auto-ignition temperature:                                |                     | not determined         |
| Decomposition temperature:                                |                     | > 100 °C               |
| Vapour pressure:                                          |                     | not determined         |
| Density (at 20 °C):                                       |                     | 1,69 g/cm <sup>3</sup> |
| Water solubility:                                         |                     | miscible               |
| Solubility in other solvents<br>not determined            |                     |                        |
| Partition coefficient n-octanol/water:                    |                     | not determined         |
| Viscosity / kinematic:                                    |                     | not determined         |
| Relative vapour density:                                  |                     | not determined         |
| 9.2. Other information                                    |                     |                        |
| No information available.                                 |                     |                        |

### **SECTION 10: Stability and reactivity**

according to UK REACH Regulation

replaces vers.frm:23.03.2021 Revision date: 06.04.2022

MIXOL® Nr. 5 Oxyd-Ocker Product code: PES56

Page 7 of 11

## 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

## 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5. Incompatible materials

No information available.

## 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met. ATEmix calculated: oral: > 2000 mg/kg dermal: > 2000 mg/kg Inhalation (vapour): >20 mg/L (4 h) Inhalation (dust/mist): > 5 mg/L (4h)

| CAS No     | Chemical name                 |                |                 |                       |                         |                |
|------------|-------------------------------|----------------|-----------------|-----------------------|-------------------------|----------------|
|            | Exposure route                | Dose           |                 | Species               | Source                  | Method         |
| 112-02-7   | Cetrimonium chloride          |                |                 |                       |                         |                |
|            | oral                          | LD50<br>mg/kg  | 699             | Rat                   | Manufacturer            |                |
|            | dermal                        | LD50<br>mg/kg  | 528             | Rabbit                | Manufacturer            |                |
| 2634-33-5  | 1,2-benzisothiazol-3(2        | 2H)-one; 1,2-b | enzisothiazolii | n-3-one               |                         |                |
|            | oral                          | LD50<br>mg/kg  | 670 - 784       | Rat                   | Manufacturer            | OECD 401       |
|            | dermal                        | LD50<br>mg/kg  | > 2000          | Rat                   | Manufacturer            |                |
|            | inhalation vapour             | ATE            | 0,5 mg/l        |                       |                         |                |
|            | inhalation (4 h)<br>dust/mist | LC50           | 0,5 mg/l        | Rat                   | Manufacturer            | OPPTS 870.1300 |
| 55965-84-9 | reaction mass of 5-chl        | oro-2-methyl-  | 2H-isothiazol-  | 3-one and 2-methyl-2H | -isothiazol-3-one (3:1) |                |
|            | oral                          | LD50           | 64 mg/kg        | Rat                   | Manufacturer            |                |
|            | dermal                        | LD50<br>mg/kg  | 92,4            | Rabbit                | Manufacturer            |                |
|            | inhalation vapour             | ATE            | 0,5 mg/l        |                       |                         |                |
|            | inhalation (4 h)<br>dust/mist | LC50<br>mg/l   | 0,171           | Rat                   | Manufacturer            |                |

Irritation and corrosivity

|                           | according to UK REACH Regulation                                                                                                                                                                                                     |                          |           |                     |              |              |  |  |  |  |  |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------|---------------------|--------------|--------------|--|--|--|--|--|
| replaces ver              | rs.frm:23.03.2021                                                                                                                                                                                                                    | MIXOL®                   | ) Nr. 5   | Oxyd-Ocker          |              |              |  |  |  |  |  |
| Revision dat              | te: 06.04.2022                                                                                                                                                                                                                       |                          |           | ode: PES56          |              | Page 8 of 11 |  |  |  |  |  |
| Skin<br>Re<br>Me          | Based on available data, the classification criteria are not met.<br>Skin corrosion/irritation:<br>Result / Evaluation: non-irritant. (Rabbit)<br>Method: OECD 404<br>Test was carried out with a similar formulation. (By analogy.) |                          |           |                     |              |              |  |  |  |  |  |
| Re:<br>Me                 | Serious eye damage/eye irritation:<br>Result / Evaluation: non-irritant. (Rabbit)<br>Method: OECD 405<br>Test was carried out with a similar formulation. (By analogy.)                                                              |                          |           |                     |              |              |  |  |  |  |  |
| Cont<br>5-chl             | Sensitising effects<br>Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of<br>5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic<br>reaction.     |                          |           |                     |              |              |  |  |  |  |  |
|                           | genic/mutagenic/toxic effe                                                                                                                                                                                                           | •                        |           | t.                  |              |              |  |  |  |  |  |
|                           | <b>ngle exposure</b><br>ed on available data, the cla                                                                                                                                                                                | ssification criteria are | not me    | t.                  |              |              |  |  |  |  |  |
| Base<br><b>Aspirati</b> o | STOT-repeated exposure<br>Based on available data, the classification criteria are not met.<br>Aspiration hazard<br>Based on available data, the classification criteria are not met.                                                |                          |           |                     |              |              |  |  |  |  |  |
| SECTION '                 | SECTION 12: Ecological information                                                                                                                                                                                                   |                          |           |                     |              |              |  |  |  |  |  |
|                           | <u>12.1. Toxicity</u><br>Harmful to aquatic life with long lasting effects.                                                                                                                                                          |                          |           |                     |              |              |  |  |  |  |  |
| CAS No                    | Chemical name                                                                                                                                                                                                                        |                          |           |                     |              |              |  |  |  |  |  |
|                           | Aquatic toxicity                                                                                                                                                                                                                     | Dose                     | [h]   [d] | Species             | Source       | Method       |  |  |  |  |  |
| 112-02-7                  | Cetrimonium chloride                                                                                                                                                                                                                 |                          |           |                     |              |              |  |  |  |  |  |
|                           | Acute algae toxicity                                                                                                                                                                                                                 | ErC50 0,08               | 72 h      | Pseudokirchneriella | Manufacturer | OECD 201     |  |  |  |  |  |

|            | Acute algae toxicity                                                                          | ErC50<br>mg/l  | 0,08           | 72 h   | Pseudokirchneriella<br>subcapitata     | Manufacturer | OECD 201 |
|------------|-----------------------------------------------------------------------------------------------|----------------|----------------|--------|----------------------------------------|--------------|----------|
|            | Acute crustacea toxicity                                                                      | EC50<br>mg/l   | 0,09           | 48 h   | Daphnia magna (Big<br>water flea)      | Manufacturer | OECD 202 |
|            | Crustacea toxicity                                                                            | NOEC<br>mg/l   | 0,0068         | 21 d   | Daphnia magna (Big<br>water flea)      | Manufacturer | OECD 211 |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-                                                                     | one; 1,2-ber   | nzisothiazolin | -3-one |                                        |              |          |
|            | Acute algae toxicity                                                                          | ErC50<br>mg/l  | 0,155          | 72 h   | Selenastrum<br>capricornutum           | Manufacturer | OECD 201 |
|            | Fish toxicity                                                                                 | NOEC<br>mg/l   | 0,21           | 28 d   | Oncorhynchus mykiss<br>(Rainbow trout) | Manufacturer | OECD 215 |
|            | Acute bacteria toxicity                                                                       | (EC50          | 23 mg/l)       | 3 h    | Activated sludge                       | Manufacturer | OECD 209 |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |                |                |        |                                        |              |          |
|            | Acute bacteria toxicity                                                                       | (EC50<br>mg/l) | 7,92           | 3 h    | Activated sludge                       | Manufacturer | OECD 209 |

## 12.2. Persistence and degradability

The product has not been tested.

according to UK REACH Regulation

#### replaces vers.frm: 23.03.2021 MIXOL® Nr. 5 Oxyd-Ocker Revision date: 06.04.2022 Product code: PES56 Page 9 of 11 CAS No Chemical name Method Value d Source Evaluation 112-02-7 Cetrimonium chloride OECD 301B 93,5 % 28 Manufacturer Readily biodegradable (according to OECD criteria).

## 12.3. Bioaccumulative potential

#### The product has not been tested.

#### Partition coefficient n-octanol/water

| CAS No     | Chemical name                                                                                 | Log Pow      |
|------------|-----------------------------------------------------------------------------------------------|--------------|
| 112-02-7   | Cetrimonium chloride                                                                          | 3,08         |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | -0,71 - 0,75 |

#### BCF

| CAS No     | Chemical name                                                                                       | BCF  | Species                           | Source       |
|------------|-----------------------------------------------------------------------------------------------------|------|-----------------------------------|--------------|
| 112-02-7   | Cetrimonium chloride                                                                                | 70,8 |                                   | Manufacturer |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one;<br>1,2-benzisothiazolin-3-one                                         | 6,62 | Lepomis macrochirus<br>(Bluegill) | Manufacturer |
| 55965-84-9 | reaction mass of<br>5-chloro-2-methyl-2H-isothiazol-3-one<br>and 2-methyl-2H-isothiazol-3-one (3:1) | 3,6  |                                   | Manufacturer |

#### 12.4. Mobility in soil

The product has not been tested.

### 12.6. Other adverse effects

No information available.

#### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

### Land transport (ADR/RID)

| <u>14.1. UN number:</u>           | No dangerous good in sense of this transport regulation. |
|-----------------------------------|----------------------------------------------------------|
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |

### Inland waterways transport (ADN)

according to UK REACH Regulation

| replaces vers.frm:23.03.2021                                                                                                                                  | MIXOL® Nr. 5 Oxyd-Ocker                                                                                            |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------|
| Revision date: 06.04.2022                                                                                                                                     | Product code: PES56 Page 10                                                                                        | ) of 1 |
| <u>14.1. UN number:</u>                                                                                                                                       | No dangerous good in sense of this transport regulation.                                                           |        |
| 14.2. UN proper shipping name:                                                                                                                                | No dangerous good in sense of this transport regulation.                                                           |        |
| 14.3. Transport hazard class(es):                                                                                                                             | No dangerous good in sense of this transport regulation.                                                           |        |
| 14.4. Packing group:                                                                                                                                          | No dangerous good in sense of this transport regulation.                                                           |        |
| Marine transport (IMDG)                                                                                                                                       |                                                                                                                    |        |
| <u>14.1. UN number:</u>                                                                                                                                       | No dangerous good in sense of this transport regulation.                                                           |        |
| 14.2. UN proper shipping name:                                                                                                                                | No dangerous good in sense of this transport regulation.                                                           |        |
| 14.3. Transport hazard class(es):                                                                                                                             | No dangerous good in sense of this transport regulation.                                                           |        |
| 14.4. Packing group:                                                                                                                                          | No dangerous good in sense of this transport regulation.                                                           |        |
| Air transport (ICAO-TI/IATA-DGR)                                                                                                                              |                                                                                                                    |        |
| <u>14.1. UN number:</u>                                                                                                                                       | No dangerous good in sense of this transport regulation.                                                           |        |
| 14.2. UN proper shipping name:                                                                                                                                | No dangerous good in sense of this transport regulation.                                                           |        |
| 14.3. Transport hazard class(es):                                                                                                                             | No dangerous good in sense of this transport regulation.                                                           |        |
| 14.4. Packing group:                                                                                                                                          | No dangerous good in sense of this transport regulation.                                                           |        |
| 14.5. Environmental hazards                                                                                                                                   |                                                                                                                    |        |
| ENVIRONMENTALLY HAZARDOUS:                                                                                                                                    | No                                                                                                                 |        |
| <ul> <li><u>14.6. Special precautions for user</u></li> <li>No information available.</li> <li><u>14.7. Transport in bulk according to Annex I</u></li> </ul> | Lof Mornel and the IRC Code                                                                                        |        |
| not applicable                                                                                                                                                |                                                                                                                    |        |
| SECTION 15: Regulatory information                                                                                                                            |                                                                                                                    |        |
| 15.1. Safety, health and environmental regul                                                                                                                  | ations/legislation specific for the substance or mixture                                                           |        |
| EU regulatory information                                                                                                                                     |                                                                                                                    |        |
| Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75                                                                                                 |                                                                                                                    |        |
| 2004/42/EC (VOC):                                                                                                                                             | < 17 %                                                                                                             |        |
| Information according to 2012/18/EU<br>(SEVESO III):                                                                                                          | Not subject to 2012/18/EU (SEVESO III)                                                                             |        |
| National regulatory information                                                                                                                               |                                                                                                                    |        |
| Employment restrictions:                                                                                                                                      | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). |        |
|                                                                                                                                                               | 2 - obviously hazardous to water                                                                                   |        |
| Water hazard class (D):                                                                                                                                       |                                                                                                                    |        |
|                                                                                                                                                               |                                                                                                                    |        |
| 15.2. Chemical safety assessment                                                                                                                              | tances in this mixture were not carried out.                                                                       |        |

CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate

according to UK REACH Regulation

## MIXOL® Nr. 5 Oxyd-Ocker

Revision date: 06.04.2022

Product code: PES56

Page 11 of 11

LC50: Lethal concentration, 50% LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: verv persistent, verv bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) IMDG: International Maritime Code for Dangerous Goods EmS: Emergency Schedules MFAG: Medical First Aid Guide IATA: International Air Transport Association ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

### Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification          | Classification procedure |  |  |  |  |
|-------------------------|--------------------------|--|--|--|--|
| Aquatic Chronic 3: H412 | Calculation method       |  |  |  |  |

#### Relevant H and EUH statements (number and full text)

| H301   | Toxic if swallowed.                                                                                                                                                                                        |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H302   | Harmful if swallowed.                                                                                                                                                                                      |
| H310   | Fatal in contact with skin.                                                                                                                                                                                |
| H311   | Toxic in contact with skin.                                                                                                                                                                                |
| H314   | Causes severe skin burns and eye damage.                                                                                                                                                                   |
| H315   | Causes skin irritation.                                                                                                                                                                                    |
| H317   | May cause an allergic skin reaction.                                                                                                                                                                       |
| H318   | Causes serious eye damage.                                                                                                                                                                                 |
| H330   | Fatal if inhaled.                                                                                                                                                                                          |
| H400   | Very toxic to aquatic life.                                                                                                                                                                                |
| H410   | Very toxic to aquatic life with long lasting effects.                                                                                                                                                      |
| H411   | Toxic to aquatic life with long lasting effects.                                                                                                                                                           |
| H412   | Harmful to aquatic life with long lasting effects.                                                                                                                                                         |
| EUH071 | Corrosive to the respiratory tract.                                                                                                                                                                        |
| EUH208 | Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5<br>-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce<br>an allergic reaction. |

#### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

according to UK REACH Regulation

| replaces vers.frm:8.042021                                                         | MIXOL® Nr. 14 Oxyd                                    | l-Grün                       |  |  |  |  |  |
|------------------------------------------------------------------------------------|-------------------------------------------------------|------------------------------|--|--|--|--|--|
| Revision date: 06.04.2022                                                          | Product code: PES                                     | S89 Page 1 of 1              |  |  |  |  |  |
| SECTION 1: Identification of the substance/mixture and of the company/undertaking  |                                                       |                              |  |  |  |  |  |
| <u>1.1. Product identifier</u><br>MIXOL® Nr. 14 Oxyd-Grü                           | in                                                    |                              |  |  |  |  |  |
| 1.2. Relevant identified uses of the substance or mixture and uses advised against |                                                       |                              |  |  |  |  |  |
| Use of the substance/mixture<br>Colour, Pigment                                    |                                                       |                              |  |  |  |  |  |
| 1.3. Details of the supplier of the                                                | safety data sheet                                     |                              |  |  |  |  |  |
| Company name:                                                                      | MIXOL-PRODUKTE Diebold GmbH                           | 1                            |  |  |  |  |  |
| Street:                                                                            | Carl-Zeiss-Str. 17-19                                 |                              |  |  |  |  |  |
| Place:                                                                             | D-73230 Kirchheim/Teck                                |                              |  |  |  |  |  |
| Telephone:                                                                         | +49/(0)7021 / 950090                                  | Telefax: +49/(0)7021 / 56030 |  |  |  |  |  |
| e-mail:                                                                            |                                                       |                              |  |  |  |  |  |
| e-mail (Contact person):                                                           | Technik@mixol.de                                      |                              |  |  |  |  |  |
| Internet:                                                                          |                                                       |                              |  |  |  |  |  |
| Responsible Department:                                                            | Technik                                               |                              |  |  |  |  |  |
| 1.4. Emergency telephone                                                           | Emergency CONTACT (24 h) GBK GmbH +49/(0)6132 / 84463 |                              |  |  |  |  |  |
| number:                                                                            |                                                       |                              |  |  |  |  |  |
| SECTION 2: Hazards identification                                                  |                                                       |                              |  |  |  |  |  |
| 2.1. Classification of the substance or mixture                                    |                                                       |                              |  |  |  |  |  |

### GB CLP Regulation

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

### 2.2. Label elements

### **GB CLP Regulation**

#### Special labelling of certain mixtures

EUH208Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5<br/>-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce<br/>an allergic reaction.EUH210Safety data sheet available on request.

#### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

according to UK REACH Regulation

replaces vers.frm:8.042021 Revision date: 06.04.2022

MIXOL® Nr. 14 Oxyd-Grün Product code: PES89

Page 2 of 11

### Hazardous components

| CAS No     | Chemical name                                                                                                                                                          |                       |                  | Quantity   |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|------------|
|            | EC No                                                                                                                                                                  | Index No              | REACH No         |            |
|            | GHS Classification                                                                                                                                                     |                       |                  |            |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd., ethoxylated                                                                                                                          |                       |                  | 5 - < 10 % |
|            | 500-236-9                                                                                                                                                              |                       |                  |            |
|            | Skin Irrit. 2, Aquatic Acute 1, Aquati                                                                                                                                 |                       |                  |            |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                                                                                                               |                       |                  | < 0.1 %    |
|            | 220-120-9                                                                                                                                                              | 613-088-00-6          | 01-2120761540-60 |            |
|            | Acute Tox. 2, Acute Tox. 4, Skin Irr<br>Chronic 2; H330 H302 H315 H318                                                                                                 | atic Acute 1, Aquatic |                  |            |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)                                                                          |                       |                  |            |
|            | -                                                                                                                                                                      | 613-167-00-5          | 01-2120764691-48 |            |
|            | Acute Tox. 2, Acute Tox. 2, Acute Tox. 3, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H310 H301 H314 H318 H317 H400 H410 EUH071 |                       |                  |            |

Full text of H and EUH statements: see section 16.

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

#### **General information**

When in doubt or if symptoms are observed, get medical advice.

#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical advice/attention.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

#### After ingestion

Observe risk of aspiration if vomiting occurs. @0405.B004145 Get medical advice/attention.

### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Water spray jet, Extinguishing powder, Carbon dioxide (CO2), alcohol resistant foam.

#### Unsuitable extinguishing media

Full water jet

#### 5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

according to UK REACH Regulation

replaces vers.frm: 8.042021

MIXOL® Nr. 14 Oxyd-Grün

Page 3 of 11

Revision date: 06.04.2022

Product code: PES89

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### 6.3. Methods and material for containment and cleaning up

Clean contaminated articles and floor according to the environmental legislation.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray. Use personal protection equipment.

#### Advice on protection against fire and explosion

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

#### Further information on handling

Handle and open container with care.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

No information available.

#### Further information on storage conditions

storage stability: >= 36 month(s)

#### 7.3. Specific end use(s)

Colour, Pigment

### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

according to UK REACH Regulation

# replaces vers.frm:8.042021

# MIXOL® Nr. 14 Oxyd-Grün

Revision date: 06.04.2022

Product code: PES89

Page 4 of 11

# Exposure limits (EH40)

| CAS No    | Substance                          | ppm | mg/m³ | fibres/ml | Category      | Origin |
|-----------|------------------------------------|-----|-------|-----------|---------------|--------|
| 1333-86-4 | Carbon black                       | -   | 3.5   |           | TWA (8 h)     | WEL    |
|           |                                    | -   | 7     |           | STEL (15 min) | WEL    |
| -         | Chromium (III) compounds (as Cr)   | -   | 0.5   |           | TWA (8 h)     | WEL    |
| -         | Iron salts (as Fe)                 | -   | 1     |           | TWA (8 h)     | WEL    |
|           |                                    | -   | 2     |           | STEL (15 min) | WEL    |
| -         | Silica, amorphous, inhalable dust  | -   | 6     |           | TWA (8 h)     | WEL    |
| -         | Silica, amorphous, respirable dust | -   | 2.4   |           | TWA (8 h)     | WEL    |

# **DNEL/DMEL** values

| CAS No                   | Substance                                                |                          |                 |                        |
|--------------------------|----------------------------------------------------------|--------------------------|-----------------|------------------------|
| DNEL type                |                                                          | Exposure route           | Effect          | Value                  |
| 2634-33-5                | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | e                        |                 |                        |
| Worker DNEL              | , long-term                                              | inhalation               | systemic        | 6,81 mg/m³             |
| Worker DNEL              | , long-term                                              | dermal                   | systemic        | 0,966 mg/kg<br>bw/day  |
| Consumer DN              | IEL, long-term                                           | inhalation               | systemic        | 1,2 mg/m³              |
| Consumer DNEL, long-term |                                                          | dermal                   | systemic        | 0,345 mg/kg<br>bw/day  |
| 55965-84-9               | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one   | and 2-methyl-2H-isothiaz | col-3-one (3:1) |                        |
| Worker DNEL              | , long-term                                              | inhalation               | local           | 0,02 mg/m³             |
| Worker DNEL, acute       |                                                          | inhalation               | local           | 0,04 mg/m <sup>3</sup> |
| Consumer DNEL, long-term |                                                          | inhalation               | local           | 0,02 mg/m³             |
| Consumer DNEL, acute     |                                                          | inhalation               | local           | 0,04 mg/m <sup>3</sup> |
| Consumer DNEL, long-term |                                                          | oral                     | systemic        | 0,11 mg/kg<br>bw/day   |
| Consumer DNEL, acute     |                                                          | oral                     | systemic        | 0,09 mg/kg<br>bw/day   |

according to UK REACH Regulation

replaces vers.frm:8.042021 Revision date: 06.04.2022

MIXOL® Nr. 14 Oxyd-Grün Product code: PES89

Page 5 of 11

#### **PNEC** values

| CAS No                                           | Substance                                                                                              |               |  |  |  |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------|--|--|--|
| Environmenta                                     | al compartment                                                                                         | Value         |  |  |  |
| 2634-33-5                                        | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                                               |               |  |  |  |
| Freshwater                                       |                                                                                                        | 0,00403 mg/l  |  |  |  |
| Freshwater (i                                    | ntermittent releases)                                                                                  | 0,0011 mg/l   |  |  |  |
| Marine water                                     |                                                                                                        | 0,000403 mg/l |  |  |  |
| Marine water                                     | (intermittent releases)                                                                                | 0,0011 mg/l   |  |  |  |
| Freshwater se                                    | ediment                                                                                                | 0,0499 mg/kg  |  |  |  |
| Marine sedim                                     | ent                                                                                                    | 0,00499 mg/kg |  |  |  |
| Micro-organis                                    | 1,03 mg/l                                                                                              |               |  |  |  |
| Soil                                             |                                                                                                        | 3 mg/kg       |  |  |  |
| 55965-84-9                                       | 965-84-9 reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |               |  |  |  |
| Freshwater                                       | 0,00339 mg/l                                                                                           |               |  |  |  |
| Freshwater (i                                    | ntermittent releases)                                                                                  | 0,00339 mg/l  |  |  |  |
| Marine water                                     |                                                                                                        | 0,00339 mg/l  |  |  |  |
| Marine water                                     | 0,00339 mg/l                                                                                           |               |  |  |  |
| Freshwater se                                    | 0,027 mg/kg                                                                                            |               |  |  |  |
| Marine sedim                                     | 0,027 mg/kg                                                                                            |               |  |  |  |
| Micro-organisms in sewage treatment plants (STP) |                                                                                                        |               |  |  |  |
| Soil 0,01 mg/kg                                  |                                                                                                        |               |  |  |  |

# 8.2. Exposure controls



## Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

### Protective and hygiene measures

Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work. Draw up and observe skin protection programme. Use protective skin cream before handling the product. When using do not eat, drink, smoke, sniff.

## Eye/face protection

Wear eye/face protection.

## Hand protection

Wear protective gloves.

Suitable material: NBR (Nitrile rubber)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties of the material must be taken into consideration.

### Skin protection

Use of protective clothing.

according to UK REACH Regulation

# replaces vers.frm: 8.042021

Revision date: 06.04.2022

MIXOL® Nr. 14 Oxyd-Grün Product code: PES89

Page 6 of 11

### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

| Physical state:                                          | Liquid (Dispersion) |                        |
|----------------------------------------------------------|---------------------|------------------------|
| Colour:                                                  | green               |                        |
| Odour:                                                   | odourless           |                        |
| pH-Value:                                                |                     | not determined         |
| Changes in the physical state                            |                     |                        |
| Melting point/freezing point:                            |                     | not determined         |
| Boiling point or initial boiling point an boiling range: | d                   | 100 °C                 |
| Flash point:                                             |                     | > 100 °C               |
| Flammability                                             |                     |                        |
| Solid:                                                   |                     | not applicable         |
| Gas:                                                     |                     | not applicable         |
| Lower explosion limits:                                  |                     | not determined         |
| Upper explosion limits:                                  |                     | not determined         |
| Auto-ignition temperature:                               |                     | not determined         |
| Decomposition temperature:                               |                     | > 100 °C               |
| Vapour pressure:                                         |                     | not determined         |
| Density (at 20 °C):                                      |                     | 1,69 g/cm <sup>3</sup> |
| Water solubility:                                        |                     | miscible               |
| Solubility in other solvents<br>not determined           |                     |                        |
| Partition coefficient n-octanol/water:                   |                     | not determined         |
| Viscosity / kinematic:                                   |                     | not determined         |
| Relative vapour density:                                 |                     | not determined         |
| 9.2. Other information                                   |                     |                        |

No information available.

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

## 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

## 10.5. Incompatible materials

No information available.

according to UK REACH Regulation

replaces vers.frm:8.042021 Revision date: 06.04.2022

MIXOL® Nr. 14 Oxyd-Grün Product code: PES89

Page 7 of 11

### 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met. ATEmix calculated: oral: > 2000 mg/kg dermal: > 2000 mg/kg Inhalation (vapour): >20 mg/L (4 h) Inhalation (dust/mist): > 5 mg/L (4h)

| CAS No     | Chemical name                                                                                 |                |                |         |              |                |  |
|------------|-----------------------------------------------------------------------------------------------|----------------|----------------|---------|--------------|----------------|--|
|            | Exposure route                                                                                | Dose           |                | Species | Source       | Method         |  |
| 2634-33-5  | 1,2-benzisothiazol-3(2                                                                        | 2H)-one; 1,2-b | enzisothiazoli | n-3-one |              |                |  |
|            | oral                                                                                          | LD50<br>mg/kg  | 670 - 784      | Rat     | Manufacturer | OECD 401       |  |
|            | dermal                                                                                        | LD50<br>mg/kg  | > 2000         | Rat     | Manufacturer |                |  |
|            | inhalation vapour                                                                             | ATE            | 0,5 mg/l       |         |              |                |  |
|            | inhalation (4 h)<br>dust/mist                                                                 | LC50           | 0,5 mg/l       | Rat     | Manufacturer | OPPTS 870.1300 |  |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |                |                |         |              |                |  |
|            | oral                                                                                          | LD50           | 64 mg/kg       | Rat     | Manufacturer |                |  |
|            | dermal                                                                                        | LD50<br>mg/kg  | 92,4           | Rabbit  | Manufacturer |                |  |
|            | inhalation vapour                                                                             | ATE            | 0,5 mg/l       |         |              |                |  |
|            | inhalation (4 h)<br>dust/mist                                                                 | LC50<br>mg/l   | 0,171          | Rat     | Manufacturer |                |  |

#### Irritation and corrosivity

Based on available data, the classification criteria are not met. Skin corrosion/irritation:

Result / Evaluation: non-irritant. (Rabbit)

Method: OECD 404

Test was carried out with a similar formulation. (By analogy.)

Serious eye damage/eye irritation: Result / Evaluation: non-irritant. (Rabbit) Method: OECD 405 Test was carried out with a similar formulation. (By analogy.)

### Sensitising effects

Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

# Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

# STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

according to UK REACH Regulation

replaces vers.frm:8.042021 Revision date: 06.04.2022

MIXOL® Nr. 14 Oxyd-Grün Product code: PES89

Page 8 of 11

# Aspiration hazard

Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

The product is not: Ecotoxic

| CAS No     | Chemical name                                                                                 |                           |          |           |                                        |              |          |
|------------|-----------------------------------------------------------------------------------------------|---------------------------|----------|-----------|----------------------------------------|--------------|----------|
|            | Aquatic toxicity                                                                              | Dose                      |          | [h]   [d] | Species                                | Source       | Method   |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-                                                                     | one; 1,2-benzisothiazolir |          | -3-one    |                                        |              |          |
|            | Acute algae toxicity                                                                          | ErC50<br>mg/l             | 0,155    |           | Selenastrum<br>capricornutum           | Manufacturer | OECD 201 |
|            | Fish toxicity                                                                                 | NOEC<br>mg/l              | 0,21     |           | Oncorhynchus mykiss<br>(Rainbow trout) | Manufacturer | OECD 215 |
|            | Acute bacteria toxicity                                                                       | (EC50                     | 23 mg/l) | 3 h       | Activated sludge                       | Manufacturer | OECD 209 |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |                           |          |           |                                        |              |          |
|            | Acute bacteria toxicity                                                                       | (EC50<br>mg/l)            | 7,92     | 3 h       | Activated sludge                       | Manufacturer | OECD 209 |

### 12.2. Persistence and degradability

The product has not been tested.

## 12.3. Bioaccumulative potential

The product has not been tested.

# Partition coefficient n-octanol/water

| CAS No     | Chemical name                                                                                 | Log Pow      |
|------------|-----------------------------------------------------------------------------------------------|--------------|
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | -0,71 - 0,75 |

### BCF

| CAS No     | Chemical name                                                                                       | BCF  | Species                           | Source       |
|------------|-----------------------------------------------------------------------------------------------------|------|-----------------------------------|--------------|
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one;<br>1,2-benzisothiazolin-3-one                                         | 6,62 | Lepomis macrochirus<br>(Bluegill) | Manufacturer |
| 55965-84-9 | reaction mass of<br>5-chloro-2-methyl-2H-isothiazol-3-one<br>and 2-methyl-2H-isothiazol-3-one (3:1) | 3,6  |                                   | Manufacturer |

### 12.4. Mobility in soil

The product has not been tested.

### 12.6. Other adverse effects

No information available.

# **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

## **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

# Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

according to UK REACH Regulation

replaces vers.frm:8.042021 Revision date: 06.04.2022

MIXOL® Nr. 14 Oxyd-Grün Product code: PES89

Page 9 of 11

# **SECTION 14: Transport information**

| Land transport (ADR/RID)          |                                                          |
|-----------------------------------|----------------------------------------------------------|
| <u>14.1. UN number:</u>           | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |
|                                   |                                                          |

| Inland waterways transport (ADN)                                         |                                                          |  |  |  |  |  |
|--------------------------------------------------------------------------|----------------------------------------------------------|--|--|--|--|--|
| <u>14.1. UN number:</u>                                                  | No dangerous good in sense of this transport regulation. |  |  |  |  |  |
| 14.2. UN proper shipping name:                                           | No dangerous good in sense of this transport regulation. |  |  |  |  |  |
| 14.3. Transport hazard class(es):                                        | No dangerous good in sense of this transport regulation. |  |  |  |  |  |
| 14.4. Packing group:                                                     | No dangerous good in sense of this transport regulation. |  |  |  |  |  |
| Marine transport (IMDG)                                                  |                                                          |  |  |  |  |  |
| <u>14.1. UN number:</u>                                                  | No dangerous good in sense of this transport regulation. |  |  |  |  |  |
| 14.2. UN proper shipping name:                                           | No dangerous good in sense of this transport regulation. |  |  |  |  |  |
| 14.3. Transport hazard class(es):                                        | No dangerous good in sense of this transport regulation. |  |  |  |  |  |
| 14.4. Packing group:                                                     | No dangerous good in sense of this transport regulation. |  |  |  |  |  |
| Air transport (ICAO-TI/IATA-DGR)                                         |                                                          |  |  |  |  |  |
| <u>14.1. UN number:</u>                                                  | No dangerous good in sense of this transport regulation. |  |  |  |  |  |
| 14.2. UN proper shipping name:                                           | No dangerous good in sense of this transport regulation. |  |  |  |  |  |
| 14.3. Transport hazard class(es):                                        | No dangerous good in sense of this transport regulation. |  |  |  |  |  |
| 14.4. Packing group:                                                     | No dangerous good in sense of this transport regulation. |  |  |  |  |  |
| 14.5. Environmental hazards                                              |                                                          |  |  |  |  |  |
| ENVIRONMENTALLY HAZARDOUS:                                               | No                                                       |  |  |  |  |  |
| 14.6. Special precautions for user                                       | 14.6. Special precautions for user                       |  |  |  |  |  |
| No information available.                                                |                                                          |  |  |  |  |  |
| 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code |                                                          |  |  |  |  |  |
| not applicable                                                           |                                                          |  |  |  |  |  |
| SECTION 15: Regulatory information                                       |                                                          |  |  |  |  |  |
|                                                                          |                                                          |  |  |  |  |  |

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

| EU regulatory information                            |                                                                                                                    |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Restrictions on use (REACH, annex XVII)<br>Entry 75  | r.                                                                                                                 |
| 2004/42/EC (VOC):                                    | < 26 %                                                                                                             |
| Information according to 2012/18/EU<br>(SEVESO III): | Not subject to 2012/18/EU (SEVESO III)                                                                             |
| National regulatory information                      |                                                                                                                    |
| Employment restrictions:                             | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). |
| Water hazard class (D):                              | 2 - obviously hazardous to water                                                                                   |

according to UK REACH Regulation

replaces vers.frm:8.042021 Revision date: 06.04.2022

MIXOL® Nr. 14 Oxyd-Grün Product code: PES89

Page 10 of 11

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

# **SECTION 16: Other information**

## Abbreviations and acronyms

CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LC50: Lethal concentration, 50% LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) IMDG: International Maritime Code for Dangerous Goods EmS: Emergency Schedules MFAG: Medical First Aid Guide IATA: International Air Transport Association ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Verv High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

### Relevant H and EUH statements (number and full text)

| H301 | Toxic if swallowed.                                   |
|------|-------------------------------------------------------|
| H302 | Harmful if swallowed.                                 |
| H310 | Fatal in contact with skin.                           |
| H314 | Causes severe skin burns and eye damage.              |
| H315 | Causes skin irritation.                               |
| H317 | May cause an allergic skin reaction.                  |
| H318 | Causes serious eye damage.                            |
| H330 | Fatal if inhaled.                                     |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects.      |
| H412 | Harmful to aquatic life with long lasting effects.    |
|      |                                                       |

according to UK REACH Regulation

| replaces vers.frm:8.042021 | MIXOL® Nr. 14 Oxyd-Grün                                                                                                                                                                                        |               |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Revision date: 06.04.2022  | Product code: PES89                                                                                                                                                                                            | Page 11 of 11 |
| EUH071                     | Corrosive to the respiratory tract.                                                                                                                                                                            |               |
| EUH208                     | Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5 -chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produ an allergic reaction.             | ice           |
| EUH210                     | Safety data sheet available on request.                                                                                                                                                                        |               |
| Further Information        |                                                                                                                                                                                                                |               |
| product properties an      | sed on the present level of our knowledge. It does not, however, give assurance of<br>d establishes no contract legal rights. The receiver of our product is singularly responsible<br>g laws and regulations. | 9             |

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

according to UK REACH Regulation

|                                           | according to UK REACH                                                                                                               | Regulation                    |       |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------|
| replaces vers.frm:8.04.202                | MIXOL® Nr. 19 Oxyd                                                                                                                  | -Kamel                        |       |
| Revision date: 06.04.2022                 | Product code: PES                                                                                                                   | S95 Page 1                    | of 11 |
| SECTION 1: Identification                 | on of the substance/mixture and of the co                                                                                           | mpany/undertaking             |       |
| 1.1. Product identifier                   |                                                                                                                                     |                               |       |
| MIXOL® Nr. 19 O                           | xyd-Kamel                                                                                                                           |                               |       |
| 1.2. Relevant identified us               | es of the substance or mixture and uses advis                                                                                       | sed against                   |       |
| Use of the substance/r<br>Colour, Pigment | nixture                                                                                                                             |                               |       |
| 1.3. Details of the supplier              | <u>r of the safety data sheet</u>                                                                                                   |                               |       |
| Company name:                             | MIXOL-PRODUKTE Diebold Gmbl                                                                                                         | H                             |       |
| Street:                                   | Carl-Zeiss-Str. 17-19                                                                                                               |                               |       |
| Place:                                    | D-73230 Kirchheim/Teck                                                                                                              | T   (                         |       |
| Telephone:<br>e-mail:                     | +49/(0)7021 / 950090                                                                                                                | Telefax: +49/(0)7021 / 56030  |       |
| e-mail (Contact person)                   | : Technik@mixol.de                                                                                                                  |                               |       |
| Internet:                                 |                                                                                                                                     |                               |       |
| Responsible Departmer                     | nt: Technik                                                                                                                         |                               | _     |
| 1.4. Emergency telephone                  | Emergency CONTACT (24 h) GBK                                                                                                        | K GmbH +49/(0)6132 / 84463    |       |
| <u>number:</u>                            |                                                                                                                                     |                               |       |
| SECTION 2: Hazards ide                    | entification                                                                                                                        |                               |       |
| 2.1. Classification of the s              | ubstance or mixture                                                                                                                 |                               |       |
| GB CLP Regulation                         |                                                                                                                                     |                               |       |
| Aquatic Chronic 3; F                      | 1412                                                                                                                                |                               |       |
| Full text of hazard s                     | tatements: see SECTION 16.                                                                                                          |                               |       |
| 2.2. Label elements                       |                                                                                                                                     |                               |       |
| GB CLP Regulation                         |                                                                                                                                     |                               |       |
| Hazard statements                         |                                                                                                                                     |                               |       |
| H412                                      | Harmful to aquatic life with long lasting effects                                                                                   | З.                            |       |
| Precautionary stateme                     | nts                                                                                                                                 |                               |       |
| P273                                      | Avoid release to the environment.                                                                                                   |                               |       |
| P501                                      | Dispose of waste according to applicable legi                                                                                       | slation.                      |       |
| Special labelling of cer                  | tain mixtures                                                                                                                       |                               |       |
| EUH208                                    | Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazol-3-one and 2-methyl-2H-isothiazol-3-one and 2-methyl-an allergic reaction. |                               |       |
| 2.3. Other hazards<br>The substances in t | he mixture do not meet the PBT/vPvB criteria acc                                                                                    | cording to REACH, annex XIII. |       |
| <b>SECTION 3: Composition</b>             | on/information on ingredients                                                                                                       |                               |       |
| 3.2. Mixtures                             |                                                                                                                                     |                               |       |

according to UK REACH Regulation

replaces vers.frm: 8.04.2021 Revision date: 06.04.2022

MIXOL® Nr. 19 Oxyd-Kamel Product code: PES95

Page 2 of 11

### Hazardous components

| CAS No     | Chemical name                                                          |                                                                         | Quantity                  |             |
|------------|------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------|-------------|
|            | EC No                                                                  | Index No                                                                | REACH No                  |             |
|            | GHS Classification                                                     | •                                                                       |                           |             |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd.,                                      | ethoxylated                                                             |                           | 10 - < 15 % |
|            | 500-236-9                                                              |                                                                         |                           |             |
|            | Skin Irrit. 2, Aquatic Acute 1, Aquat                                  | ic Chronic 3; H315 H400 H412                                            |                           |             |
| 112-02-7   | Cetrimonium chloride                                                   |                                                                         | < 1 %                     |             |
|            | 203-928-6                                                              |                                                                         |                           |             |
|            | Acute Tox. 3, Acute Tox. 4, Skin Co<br>H302 H314 H318 H400 H410        | orr. 1C, Eye Dam. 1, Aquatic Acute 1                                    | , Aquatic Chronic 1; H311 |             |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-b                                    |                                                                         | < 0.1 %                   |             |
|            | 220-120-9                                                              | 613-088-00-6                                                            | 01-2120761540-60          |             |
|            | Acute Tox. 2, Acute Tox. 4, Skin Irr<br>Chronic 2; H330 H302 H315 H318 | it. 2, Eye Dam. 1, Skin Sens. 1, Aqua<br>H317 H400 H411                 | atic Acute 1, Aquatic     |             |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-                                    | H-isothiazol-3-one (3:1)                                                | < 0.1 %                   |             |
|            | -                                                                      | 613-167-00-5                                                            | 01-2120764691-48          |             |
|            |                                                                        | ōx. 3, Skin Corr. 1C, Eye Dam. 1, Sl<br>I310 H301 H314 H318 H317 H400 H |                           |             |

Full text of H and EUH statements: see section 16.

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

### **General information**

When in doubt or if symptoms are observed, get medical advice.

#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical advice/attention.

### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

### After ingestion

Observe risk of aspiration if vomiting occurs. @0405.B004145 Get medical advice/attention.

### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

# 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

## Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Water spray jet, Extinguishing powder, Carbon dioxide (CO2), alcohol resistant foam.

according to UK REACH Regulation

# replaces vers.frm:8.04.2021 Revision date: 06.04.2022

MIXOL® Nr. 19 Oxyd-Kamel Product code: PES95

Page 3 of 11

### Unsuitable extinguishing media

Full water jet

# 5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

# 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures** 

### 6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### 6.3. Methods and material for containment and cleaning up

Clean contaminated articles and floor according to the environmental legislation.

## 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

### Advice on safe handling

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray. Use personal protection equipment.

#### Advice on protection against fire and explosion

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

## Further information on handling

Handle and open container with care.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

No information available.

### Further information on storage conditions

storage stability: >= 36 month(s)

### 7.3. Specific end use(s)

Colour, Pigment

### **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

according to UK REACH Regulation

replaces vers.frm:8.04.2021

MIXOL® Nr. 19 Oxyd-Kamel

Revision date: 06.04.2022

Product code: PES95

Page 4 of 11

# Exposure limits (EH40)

| CAS No    | Substance                          | ppm | mg/m³ | fibres/ml | Category      | Origin |
|-----------|------------------------------------|-----|-------|-----------|---------------|--------|
| 1309-37-1 | Iron oxide, fume (as Fe)           | -   | 5     |           | TWA (8 h)     | WEL    |
|           |                                    | -   | 10    |           | STEL (15 min) | WEL    |
| -         | Iron salts (as Fe)                 | -   | 1     |           | TWA (8 h)     | WEL    |
|           |                                    | -   | 2     |           | STEL (15 min) | WEL    |
| 1309-37-1 | Rouge, respirable                  | -   | 4     |           | TWA (8 h)     | WEL    |
| 1309-37-1 | Rouge, total inhalable             | -   | 10    |           | TWA (8 h)     | WEL    |
| -         | Silica, amorphous, inhalable dust  | -   | 6     |           | TWA (8 h)     | WEL    |
| -         | Silica, amorphous, respirable dust | -   | 2.4   |           | TWA (8 h)     | WEL    |

# DNEL/DMEL values

| CAS No                   | Substance                                                  |                        |                  |                        |
|--------------------------|------------------------------------------------------------|------------------------|------------------|------------------------|
| DNEL type                |                                                            | Exposure route         | Effect           | Value                  |
| 112-02-7                 | Cetrimonium chloride                                       |                        |                  |                        |
| Worker DNEL              | ., long-term                                               | inhalation             | systemic         | 3,32 mg/m <sup>3</sup> |
| Worker DNEL              | ., long-term                                               | dermal                 | systemic         | 4,7 mg/kg bw/day       |
| Consumer DN              | IEL, long-term                                             | inhalation             | systemic         | 0,98 mg/m³             |
| Consumer DN              | IEL, long-term                                             | dermal                 | systemic         | 2,83 mg/kg<br>bw/day   |
| Consumer DN              | IEL, long-term                                             | oral                   | systemic         | 2,83 mg/kg<br>bw/day   |
| 2634-33-5                | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one   |                        |                  |                        |
| Worker DNEL              | ., long-term                                               | inhalation             | systemic         | 6,81 mg/m³             |
| Worker DNEL, long-term   |                                                            | dermal                 | systemic         | 0,966 mg/kg<br>bw/day  |
| Consumer DN              | IEL, long-term                                             | inhalation             | systemic         | 1,2 mg/m³              |
| Consumer DN              | IEL, long-term                                             | dermal                 | systemic         | 0,345 mg/kg<br>bw/day  |
| 55965-84-9               | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and | nd 2-methyl-2H-isothia | azol-3-one (3:1) |                        |
| Worker DNEL              | ., long-term                                               | inhalation             | local            | 0,02 mg/m³             |
| Worker DNEL              | ., acute                                                   | inhalation             | local            | 0,04 mg/m <sup>3</sup> |
| Consumer DN              | IEL, long-term                                             | inhalation             | local            | 0,02 mg/m <sup>3</sup> |
| Consumer DNEL, acute     |                                                            | inhalation             | local            | 0,04 mg/m <sup>3</sup> |
| Consumer DNEL, long-term |                                                            | oral                   | systemic         | 0,11 mg/kg<br>bw/day   |
| Consumer DN              | IEL, acute                                                 | oral                   | systemic         | 0,09 mg/kg<br>bw/day   |

according to UK REACH Regulation

replaces vers.frm:8.04.2021 Revision date: 06.04.2022

MIXOL® Nr. 19 Oxyd-Kamel Product code: PES95

Page 5 of 11

#### **PNEC** values

| CAS No        | Substance                                                                             |               |  |  |
|---------------|---------------------------------------------------------------------------------------|---------------|--|--|
| Environmenta  | al compartment                                                                        | Value         |  |  |
| 112-02-7      | Cetrimonium chloride                                                                  |               |  |  |
| Freshwater    | 0,00063 mg/l                                                                          |               |  |  |
| Freshwater (i | ntermittent releases)                                                                 | 0,0008 mg/l   |  |  |
| Marine water  |                                                                                       | 0,000068 mg/l |  |  |
| Freshwater s  | ediment                                                                               | 9,27 mg/kg    |  |  |
| Marine sedim  | ent                                                                                   | 0,927 mg/kg   |  |  |
| Micro-organis | ms in sewage treatment plants (STP)                                                   | 0,4 mg/l      |  |  |
| Soil          |                                                                                       | 7 mg/kg       |  |  |
| 2634-33-5     | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                              |               |  |  |
| Freshwater    |                                                                                       | 0,00403 mg/l  |  |  |
| Freshwater (i | 0,0011 mg/l                                                                           |               |  |  |
| Marine water  | 0,000403 mg/l                                                                         |               |  |  |
| Marine water  | 0,0011 mg/l                                                                           |               |  |  |
| Freshwater s  | ediment                                                                               | 0,0499 mg/kg  |  |  |
| Marine sedim  | ent                                                                                   | 0,00499 mg/kg |  |  |
| Micro-organis | ms in sewage treatment plants (STP)                                                   | 1,03 mg/l     |  |  |
| Soil          |                                                                                       | 3 mg/kg       |  |  |
| 55965-84-9    | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-o | one (3:1)     |  |  |
| Freshwater    |                                                                                       | 0,00339 mg/l  |  |  |
| Freshwater (i | ntermittent releases)                                                                 | 0,00339 mg/l  |  |  |
| Marine water  | 0,00339 mg/l                                                                          |               |  |  |
| Marine water  | 0,00339 mg/l                                                                          |               |  |  |
| Freshwater s  | Freshwater sediment                                                                   |               |  |  |
| Marine sedim  | ent                                                                                   | 0,027 mg/kg   |  |  |
| Micro-organis | ms in sewage treatment plants (STP)                                                   | 0,23 mg/l     |  |  |
| Soil          |                                                                                       | 0,01 mg/kg    |  |  |

# 8.2. Exposure controls





# Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

### Protective and hygiene measures

Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work. Draw up and observe skin protection programme. Use protective skin cream before handling the product. When using do not eat, drink, smoke, sniff.

#### Eye/face protection

Wear eye/face protection.

## Hand protection

Wear protective gloves.

according to UK REACH Regulation

replaces vers.frm: 8.04.2021

MIXOL® Nr. 19 Oxyd-Kamel

Revision date: 06.04.2022

Product code: PES95

Page 6 of 11

Suitable material: NBR (Nitrile rubber)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties of the material must be taken into consideration.

### Skin protection

Use of protective clothing.

## **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

### **Environmental exposure controls**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

| Physical state:                                           | Liquid (Dispersion) |                        |
|-----------------------------------------------------------|---------------------|------------------------|
| Colour:                                                   | brown               |                        |
| Odour:                                                    | odourless           |                        |
| pH-Value:                                                 |                     | not determined         |
| Changes in the physical state                             |                     |                        |
| Melting point/freezing point:                             |                     | not determined         |
| Boiling point or initial boiling point and boiling range: |                     | 100 °C                 |
| Flash point:                                              |                     | > 100 °C               |
| Flammability                                              |                     |                        |
| Solid:                                                    |                     | not applicable         |
| Gas:                                                      |                     | not applicable         |
| Lower explosion limits:                                   |                     | not determined         |
| Upper explosion limits:                                   |                     | not determined         |
| Auto-ignition temperature:                                |                     | not determined         |
| Decomposition temperature:                                |                     | > 100 °C               |
| Vapour pressure:                                          |                     | not determined         |
| Density (at 20 °C):                                       |                     | 1,68 g/cm <sup>3</sup> |
| Water solubility:                                         |                     | miscible               |
| Solubility in other solvents<br>not determined            |                     |                        |
| Partition coefficient n-octanol/water:                    |                     | not determined         |
| Viscosity / kinematic:                                    |                     | not determined         |
| Relative vapour density:                                  |                     | not determined         |
| 9.2. Other information                                    |                     |                        |
| No information available.                                 |                     |                        |

## **SECTION 10: Stability and reactivity**

according to UK REACH Regulation

replaces vers.frm:8.04.2021 Revision date: 06.04.2022

MIXOL® Nr. 19 Oxyd-Kamel Product code: PES95

Page 7 of 11

# 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

# 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

# 10.5. Incompatible materials

No information available.

# 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

### Acute toxicity

Based on available data, the classification criteria are not met. ATEmix calculated: oral: > 2000 mg/kg dermal: > 2000 mg/kg Inhalation (vapour): >20 mg/L (4 h) Inhalation (dust/mist): > 5 mg/L (4h)

| CAS No     | Chemical name                                                                                 |                |                 |         |              |                |  |  |
|------------|-----------------------------------------------------------------------------------------------|----------------|-----------------|---------|--------------|----------------|--|--|
|            | Exposure route                                                                                | Dose           |                 | Species | Source       | Method         |  |  |
| 112-02-7   | Cetrimonium chloride                                                                          |                |                 |         |              |                |  |  |
|            | oral                                                                                          | LD50<br>mg/kg  | 699             | Rat     | Manufacturer |                |  |  |
|            | dermal                                                                                        | LD50<br>mg/kg  | 528             | Rabbit  | Manufacturer |                |  |  |
| 2634-33-5  | 1,2-benzisothiazol-3(2                                                                        | 2H)-one; 1,2-b | enzisothiazolii | n-3-one |              |                |  |  |
|            | oral                                                                                          | LD50<br>mg/kg  | 670 - 784       | Rat     | Manufacturer | OECD 401       |  |  |
|            | dermal                                                                                        | LD50<br>mg/kg  | > 2000          | Rat     | Manufacturer |                |  |  |
|            | inhalation vapour                                                                             | ATE            | 0,5 mg/l        |         |              |                |  |  |
|            | inhalation (4 h)<br>dust/mist                                                                 | LC50           | 0,5 mg/l        | Rat     | Manufacturer | OPPTS 870.1300 |  |  |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |                |                 |         |              |                |  |  |
|            | oral                                                                                          | LD50           | 64 mg/kg        | Rat     | Manufacturer |                |  |  |
|            | dermal                                                                                        | LD50<br>mg/kg  | 92,4            | Rabbit  | Manufacturer |                |  |  |
|            | inhalation vapour                                                                             | ATE            | 0,5 mg/l        |         |              |                |  |  |
|            | inhalation (4 h)<br>dust/mist                                                                 | LC50<br>mg/l   | 0,171           | Rat     | Manufacturer |                |  |  |

Irritation and corrosivity

according to UK REACH Regulation

| replaces vers.frm:8.04.2021 |
|-----------------------------|
| Revision date: 06.04.2022   |

MIXOL® Nr. 19 Oxyd-Kamel Product code: PES95

Page 8 of 11

Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Result / Evaluation: non-irritant. (Rabbit)

Method: OECD 404

Test was carried out with a similar formulation. (By analogy.)

Serious eye damage/eye irritation: Result / Evaluation: non-irritant. (Rabbit) Method: OECD 405 Test was carried out with a similar formulation. (By analogy.)

### Sensitising effects

Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

# Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

# STOT-single exposure

Based on available data, the classification criteria are not met.

## STOT-repeated exposure

Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

# 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

| CAS No     | Chemical name              |                |                |           |                                        |              |          |  |
|------------|----------------------------|----------------|----------------|-----------|----------------------------------------|--------------|----------|--|
|            | Aquatic toxicity           | Dose           |                | [h]   [d] | Species                                | Source       | Method   |  |
| 112-02-7   | Cetrimonium chloride       |                |                |           |                                        |              |          |  |
|            | Acute algae toxicity       | ErC50<br>mg/l  | 0,08           |           | Pseudokirchneriella<br>subcapitata     | Manufacturer | OECD 201 |  |
|            | Acute crustacea toxicity   | EC50<br>mg/l   | 0,09           |           | Daphnia magna (Big<br>water flea)      | Manufacturer | OECD 202 |  |
|            | Crustacea toxicity         | NOEC<br>mg/l   | 0,0068         |           | Daphnia magna (Big<br>water flea)      | Manufacturer | OECD 211 |  |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-  | one; 1,2-ber   | zisothiazolin  | -3-one    |                                        |              |          |  |
|            | Acute algae toxicity       | ErC50<br>mg/l  | 0,155          |           | Selenastrum<br>capricornutum           | Manufacturer | OECD 201 |  |
|            | Fish toxicity              | NOEC<br>mg/l   | 0,21           |           | Oncorhynchus mykiss<br>(Rainbow trout) | Manufacturer | OECD 215 |  |
|            | Acute bacteria toxicity    | (EC50          | 23 mg/l)       | 3 h       | Activated sludge                       | Manufacturer | OECD 209 |  |
| 55965-84-9 | reaction mass of 5-chloro- | -2-methyl-2H   | l-isothiazol-3 | B-one and | d 2-methyl-2H-isothiazol-              | 3-one (3:1)  |          |  |
|            | Acute bacteria toxicity    | (EC50<br>mg/l) | 7,92           | 3 h       | Activated sludge                       | Manufacturer | OECD 209 |  |

# 12.2. Persistence and degradability

The product has not been tested.

according to UK REACH Regulation

#### replaces vers.frm: 8.04.2021 MIXOL® Nr. 19 Oxyd-Kamel Revision date: 06.04.2022 Product code: PES95 Page 9 of 11 CAS No Chemical name Method Value d Source Evaluation 112-02-7 Cetrimonium chloride OECD 301B 93,5 % 28 Manufacturer Readily biodegradable (according to OECD criteria). 12.3. Bioaccumulative potential The product has not been tested.

### Partition coefficient n-octanol/water

| CAS No     | Chemical name                                                                                 | Log Pow      |
|------------|-----------------------------------------------------------------------------------------------|--------------|
| 112-02-7   | Cetrimonium chloride                                                                          | 3,08         |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | -0,71 - 0,75 |

### BCF

| CAS No     | Chemical name                                                                                       | BCF  | Species                           | Source       |
|------------|-----------------------------------------------------------------------------------------------------|------|-----------------------------------|--------------|
| 112-02-7   | Cetrimonium chloride                                                                                | 70,8 |                                   | Manufacturer |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one;<br>1,2-benzisothiazolin-3-one                                         | 6,62 | Lepomis macrochirus<br>(Bluegill) | Manufacturer |
| 55965-84-9 | reaction mass of<br>5-chloro-2-methyl-2H-isothiazol-3-one<br>and 2-methyl-2H-isothiazol-3-one (3:1) | 3,6  |                                   | Manufacturer |

## 12.4. Mobility in soil

The product has not been tested.

## 12.6. Other adverse effects

No information available.

### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

# Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

## Land transport (ADR/RID)

| <u>14.1. UN number:</u>           | No dangerous good in sense of this transport regulation. |
|-----------------------------------|----------------------------------------------------------|
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |

### Inland waterways transport (ADN)

according to UK REACH Regulation

|                                                                                                                                                                                                                                                                                                       | MIXOL® Nr. 19 Oxyd-Kamel                                                                                                                                                  |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Revision date: 06.04.2022                                                                                                                                                                                                                                                                             | Product code: PES95 Pa                                                                                                                                                    | ge 10 of 1 |
| <u>14.1. UN number:</u>                                                                                                                                                                                                                                                                               | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.2. UN proper shipping name:                                                                                                                                                                                                                                                                        | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.3. Transport hazard class(es):                                                                                                                                                                                                                                                                     | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.4. Packing group:                                                                                                                                                                                                                                                                                  | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| Marine transport (IMDG)                                                                                                                                                                                                                                                                               |                                                                                                                                                                           |            |
| <u>14.1. UN number:</u>                                                                                                                                                                                                                                                                               | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.2. UN proper shipping name:                                                                                                                                                                                                                                                                        | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.3. Transport hazard class(es):                                                                                                                                                                                                                                                                     | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.4. Packing group:                                                                                                                                                                                                                                                                                  | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| Air transport (ICAO-TI/IATA-DGR)                                                                                                                                                                                                                                                                      |                                                                                                                                                                           |            |
| <u>14.1. UN number:</u>                                                                                                                                                                                                                                                                               | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.2. UN proper shipping name:                                                                                                                                                                                                                                                                        | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.3. Transport hazard class(es):                                                                                                                                                                                                                                                                     | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.4. Packing group:                                                                                                                                                                                                                                                                                  | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.5. Environmental hazards                                                                                                                                                                                                                                                                           |                                                                                                                                                                           |            |
| ENVIRONMENTALLY HAZARDOUS:                                                                                                                                                                                                                                                                            | No                                                                                                                                                                        |            |
| 14.6. Special precautions for user<br>No information available.                                                                                                                                                                                                                                       |                                                                                                                                                                           |            |
| 14.7. Transport in bulk according to Annex                                                                                                                                                                                                                                                            | I of Mornal and the IPC Code                                                                                                                                              |            |
| not applicable                                                                                                                                                                                                                                                                                        |                                                                                                                                                                           |            |
|                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                           |            |
| SECTION 15: Regulatory information                                                                                                                                                                                                                                                                    |                                                                                                                                                                           |            |
|                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                           |            |
| 15.1. Safety, health and environmental regu                                                                                                                                                                                                                                                           | lations/legislation specific for the substance or mixture                                                                                                                 |            |
| 15.1. Safety, health and environmental regu<br>EU regulatory information                                                                                                                                                                                                                              | lations/legislation specific for the substance or mixture                                                                                                                 |            |
|                                                                                                                                                                                                                                                                                                       | lations/legislation specific for the substance or mixture                                                                                                                 |            |
| EU regulatory information                                                                                                                                                                                                                                                                             | lations/legislation specific for the substance or mixture                                                                                                                 |            |
| <b>EU regulatory information</b><br>Restrictions on use (REACH, annex XVII):                                                                                                                                                                                                                          | lations/legislation specific for the substance or mixture                                                                                                                 |            |
| <b>EU regulatory information</b><br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75                                                                                                                                                                                                     |                                                                                                                                                                           |            |
| EU regulatory information<br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU                                                                                                                                                | < 21 %                                                                                                                                                                    |            |
| EU regulatory information<br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU<br>(SEVESO III):                                                                                                                               | < 21 %<br>Not subject to 2012/18/EU (SEVESO III)<br>Observe restrictions to employment for juveniles according to the 'juvenile                                           |            |
| EU regulatory information<br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU<br>(SEVESO III):<br>National regulatory information                                                                                            | < 21 %<br>Not subject to 2012/18/EU (SEVESO III)                                                                                                                          |            |
| EU regulatory information<br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU<br>(SEVESO III):<br>National regulatory information<br>Employment restrictions:<br>Water hazard class (D):                                     | < 21 %<br>Not subject to 2012/18/EU (SEVESO III)<br>Observe restrictions to employment for juveniles according to the 'juvenile<br>work protection guideline' (94/33/EC). |            |
| EU regulatory information<br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU<br>(SEVESO III):<br>National regulatory information<br>Employment restrictions:<br>Water hazard class (D):<br>15.2. Chemical safety assessment | < 21 %<br>Not subject to 2012/18/EU (SEVESO III)<br>Observe restrictions to employment for juveniles according to the 'juvenile<br>work protection guideline' (94/33/EC). |            |

CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate

according to UK REACH Regulation

replaces vers.frm: 8.04.2021 **MIXOL® Nr. 19 Oxyd-Kamel** Product code: PES95 Revision date: 06.04.2022 Page 11 of 11 LC50: Lethal concentration, 50% LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: verv persistent, verv bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) IMDG: International Maritime Code for Dangerous Goods EmS: Emergency Schedules MFAG: Medical First Aid Guide IATA: International Air Transport Association ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

## Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Aquatic Chronic 3: H412 | Calculation method       |

### Relevant H and EUH statements (number and full text)

| H301   | Toxic if swallowed.                                                                                                                                                                                        |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H302   | Harmful if swallowed.                                                                                                                                                                                      |
| H310   | Fatal in contact with skin.                                                                                                                                                                                |
| H311   | Toxic in contact with skin.                                                                                                                                                                                |
| H314   | Causes severe skin burns and eye damage.                                                                                                                                                                   |
| H315   | Causes skin irritation.                                                                                                                                                                                    |
| H317   | May cause an allergic skin reaction.                                                                                                                                                                       |
| H318   | Causes serious eye damage.                                                                                                                                                                                 |
| H330   | Fatal if inhaled.                                                                                                                                                                                          |
| H400   | Very toxic to aquatic life.                                                                                                                                                                                |
| H410   | Very toxic to aquatic life with long lasting effects.                                                                                                                                                      |
| H411   | Toxic to aquatic life with long lasting effects.                                                                                                                                                           |
| H412   | Harmful to aquatic life with long lasting effects.                                                                                                                                                         |
| EUH071 | Corrosive to the respiratory tract.                                                                                                                                                                        |
| EUH208 | Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5<br>-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce<br>an allergic reaction. |

### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

according to UK REACH Regulation

|                                                            | according to UK REA                                                         | ACH Regulation                                                                                    |              |
|------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------|
| replaces vers.frm:8.04.202                                 | <sup>1</sup> MIXOL® Nr. 20 Ox                                               | yd-Kastanie                                                                                       |              |
| Revision date: 06.04.2022                                  | Product code:                                                               | : PES96                                                                                           | Page 1 of 11 |
| SECTION 1: Identificatio                                   | on of the substance/mixture and of the                                      | oompony/undertaking                                                                               |              |
|                                                            | on the substance/mixture and of the                                         | e company/undertaking                                                                             |              |
| <u>1.1. Product identifier</u><br>MIXOL® Nr. 20 O          | xyd-Kastanie                                                                |                                                                                                   |              |
| 1.2. Relevant identified us                                | es of the substance or mixture and uses a                                   | advised against                                                                                   |              |
| Use of the substance/n<br>Colour, Pigment                  | nixture                                                                     |                                                                                                   |              |
| 1.3. Details of the supplier                               | <u>of the safety data sheet</u>                                             |                                                                                                   |              |
| Company name:<br>Street:<br>Place:                         | MIXOL-PRODUKTE Diebold G<br>Carl-Zeiss-Str. 17-19<br>D-73230 Kirchheim/Teck |                                                                                                   |              |
| Telephone:<br>e-mail:                                      | +49/(0)7021 / 950090                                                        | Telefax: +49/(0)7021 / 56030                                                                      |              |
| e-mail (Contact person)                                    | : Technik@mixol.de                                                          |                                                                                                   |              |
| Internet:                                                  | nt: Technik                                                                 |                                                                                                   |              |
| Responsible Departmer<br>1.4. Emergency telephone          |                                                                             | GBK GmbH +49/(0)6132 / 84463                                                                      |              |
| number:                                                    |                                                                             | GBK GIIDH +49/(0)01327 04403                                                                      |              |
|                                                            |                                                                             |                                                                                                   |              |
| SECTION 2: Hazards ide                                     | entification                                                                |                                                                                                   |              |
| 2.1. Classification of the s                               | ubstance or mixture                                                         |                                                                                                   |              |
| GB CLP Regulation<br>Aquatic Chronic 3; H                  | 1412                                                                        |                                                                                                   |              |
| Full text of hazard st                                     | tatements: see SECTION 16.                                                  |                                                                                                   |              |
| 2.2. Label elements                                        |                                                                             |                                                                                                   |              |
| GB CLP Regulation                                          |                                                                             |                                                                                                   |              |
| Hazard statements                                          |                                                                             |                                                                                                   |              |
| H412                                                       | Harmful to aquatic life with long lasting ef                                | ffects.                                                                                           |              |
| Precautionary stateme                                      | nts                                                                         |                                                                                                   |              |
| P273                                                       | Avoid release to the environment.                                           |                                                                                                   |              |
| P501 Dispose of waste according to applicable legislation. |                                                                             |                                                                                                   |              |
| Special labelling of cer<br>EUH208                         | Contains 1,2-benzisothiazol-3(2H)-one; 1                                    | I,2-benzisothiazolin-3-one, reaction mass of 5<br>I 2-methyl-2H-isothiazol-3-one (3:1). May produ | ice          |
| 2.3. Other hazards                                         |                                                                             |                                                                                                   |              |
|                                                            | he mixture do not meet the PBT/vPvB criteria                                | a according to REACH, annex XIII.                                                                 |              |
| SECTION 3: Composition                                     | on/information on ingredients                                               |                                                                                                   |              |
| 3.2. Mixtures                                              |                                                                             |                                                                                                   |              |

according to UK REACH Regulation

replaces vers.frm: 8.04.2021 Revision date: 06.04.2022

MIXOL® Nr. 20 Oxyd-Kastanie Product code: PES96

Page 2 of 11

## Hazardous components

| CAS No     | Chemical name                                                                                                                                                          |                              |                  | Quantity    |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------|-------------|
|            | EC No                                                                                                                                                                  | Index No                     | REACH No         |             |
|            | GHS Classification                                                                                                                                                     | 1                            |                  |             |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd.,                                                                                                                                      | ethoxylated                  |                  | 10 - < 15 % |
|            | 500-236-9                                                                                                                                                              |                              |                  |             |
|            | Skin Irrit. 2, Aquatic Acute 1, Aquat                                                                                                                                  | ic Chronic 3; H315 H400 H412 |                  |             |
| 112-02-7   | Cetrimonium chloride                                                                                                                                                   |                              |                  | < 0.1 %     |
|            | 203-928-6                                                                                                                                                              |                              |                  |             |
|            | Acute Tox. 3, Acute Tox. 4, Skin Co<br>H302 H314 H318 H400 H410                                                                                                        | , Aquatic Chronic 1; H311    |                  |             |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                                                                                                               |                              |                  | < 0.1 %     |
|            | 220-120-9                                                                                                                                                              | 613-088-00-6                 | 01-2120761540-60 |             |
|            | Acute Tox. 2, Acute Tox. 4, Skin Irr<br>Chronic 2; H330 H302 H315 H318                                                                                                 | atic Acute 1, Aquatic        |                  |             |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)                                                                          |                              |                  | < 0.1 %     |
|            | -                                                                                                                                                                      | 613-167-00-5                 | 01-2120764691-48 |             |
|            | Acute Tox. 2, Acute Tox. 2, Acute Tox. 3, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H310 H301 H314 H318 H317 H400 H410 EUH071 |                              |                  |             |

Full text of H and EUH statements: see section 16.

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### **General information**

When in doubt or if symptoms are observed, get medical advice.

#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical advice/attention.

### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

### After ingestion

Observe risk of aspiration if vomiting occurs. @0405.B004145 Get medical advice/attention.

# 4.2. Most important symptoms and effects, both acute and delayed

No information available.

# 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

## Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Water spray jet, Extinguishing powder, Carbon dioxide (CO2), alcohol resistant foam.

according to UK REACH Regulation

# replaces vers.frm: 8.04.2021 Revision date: 06.04.2022

MIXOL® Nr. 20 Oxyd-Kastanie Product code: PES96

Page 3 of 11

### Unsuitable extinguishing media

Full water jet

# 5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

# 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures** 

### 6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### 6.3. Methods and material for containment and cleaning up

Clean contaminated articles and floor according to the environmental legislation.

## 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

### Advice on safe handling

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray. Use personal protection equipment.

#### Advice on protection against fire and explosion

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

## Further information on handling

Handle and open container with care.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

No information available.

### Further information on storage conditions

storage stability: >= 36 month(s)

### 7.3. Specific end use(s)

Colour, Pigment

### **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

according to UK REACH Regulation

replaces vers.frm:8.04.2021 Revision date: 06.04.2022

MIXOL® Nr. 20 Oxyd-Kastanie Product code: PES96

Page 4 of 11

# Exposure limits (EH40)

| CAS No    | Substance                                                       | ppm | mg/m³ | fibres/ml | Category      | Origin |
|-----------|-----------------------------------------------------------------|-----|-------|-----------|---------------|--------|
| 1309-37-1 | Iron oxide, fume (as Fe)                                        | -   | 5     |           | TWA (8 h)     | WEL    |
|           |                                                                 | -   | 10    |           | STEL (15 min) | WEL    |
| -         | Iron salts (as Fe)                                              | -   | 1     |           | TWA (8 h)     | WEL    |
|           |                                                                 | -   | 2     |           | STEL (15 min) | WEL    |
| -         | Manganese: its inorganic compounds (as Mn, inhalable fraction)  | -   | 0.2   |           | TWA (8 h)     | WEL    |
| -         | Manganese: its inorganic compounds (as Mn, respirable fraction) | -   | 0.05  |           | TWA (8 h)     | WEL    |
| 1309-37-1 | Rouge, respirable                                               | -   | 4     |           | TWA (8 h)     | WEL    |
| 1309-37-1 | Rouge, total inhalable                                          | -   | 10    |           | TWA (8 h)     | WEL    |
| -         | Silica, amorphous, inhalable dust                               | -   | 6     |           | TWA (8 h)     | WEL    |
| -         | Silica, amorphous, respirable dust                              | -   | 2.4   |           | TWA (8 h)     | WEL    |

# **DNEL/DMEL** values

| CAS No               | Substance                                     |                                  |                  |                        |
|----------------------|-----------------------------------------------|----------------------------------|------------------|------------------------|
| DNEL type            |                                               | Exposure route                   | Effect           | Value                  |
| 112-02-7             | Cetrimonium chloride                          |                                  |                  |                        |
| Worker DNEI          | L, long-term                                  | inhalation                       | systemic         | 3,32 mg/m <sup>3</sup> |
| Worker DNEI          | L, long-term                                  | dermal                           | systemic         | 4,7 mg/kg bw/day       |
| Consumer DI          | NEL, long-term                                | inhalation                       | systemic         | 0,98 mg/m³             |
| Consumer DI          | NEL, long-term                                | dermal                           | systemic         | 2,83 mg/kg<br>bw/day   |
| Consumer DI          | NEL, long-term                                | oral                             | systemic         | 2,83 mg/kg<br>bw/day   |
| 2634-33-5            | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothia | zolin-3-one                      |                  |                        |
| Worker DNEI          | L, long-term                                  | inhalation                       | systemic         | 6,81 mg/m³             |
| Worker DNEI          | L, long-term                                  | dermal                           | systemic         | 0,966 mg/kg<br>bw/day  |
| Consumer DI          | NEL, long-term                                | inhalation                       | systemic         | 1,2 mg/m <sup>3</sup>  |
| Consumer DI          | NEL, long-term                                | dermal                           | systemic         | 0,345 mg/kg<br>bw/day  |
| 55965-84-9           | reaction mass of 5-chloro-2-methyl-2H-isothia | zol-3-one and 2-methyl-2H-isothi | azol-3-one (3:1) |                        |
| Worker DNEI          | L, long-term                                  | inhalation                       | local            | 0,02 mg/m³             |
| Worker DNEI          | L, acute                                      | inhalation                       | local            | 0,04 mg/m³             |
| Consumer DI          | NEL, long-term                                | inhalation                       | local            | 0,02 mg/m³             |
| Consumer DNEL, acute |                                               | inhalation                       | local            | 0,04 mg/m³             |
| Consumer DI          | NEL, long-term                                | oral                             | systemic         | 0,11 mg/kg<br>bw/day   |
| Consumer DI          | NEL, acute                                    | oral                             | systemic         | 0,09 mg/kg<br>bw/day   |

according to UK REACH Regulation

replaces vers.frm:8.04.2021 Revision date: 06.04.2022

MIXOL® Nr. 20 Oxyd-Kastanie Product code: PES96

Page 5 of 11

#### **PNEC** values

| CAS No        | Substance                                                                                 |               |  |
|---------------|-------------------------------------------------------------------------------------------|---------------|--|
| Environmenta  | l compartment                                                                             | Value         |  |
| 112-02-7      |                                                                                           |               |  |
| Freshwater    |                                                                                           | 0,00063 mg/l  |  |
| Freshwater (i | 0,0008 mg/l                                                                               |               |  |
| Marine water  |                                                                                           | 0,000068 mg/l |  |
| Freshwater se | ediment                                                                                   | 9,27 mg/kg    |  |
| Marine sedim  | ent                                                                                       | 0,927 mg/kg   |  |
| Micro-organis | ms in sewage treatment plants (STP)                                                       | 0,4 mg/l      |  |
| Soil          |                                                                                           | 7 mg/kg       |  |
| 2634-33-5     | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                                  |               |  |
| Freshwater    |                                                                                           | 0,00403 mg/l  |  |
| Freshwater (i | ntermittent releases)                                                                     | 0,0011 mg/l   |  |
| Marine water  |                                                                                           | 0,000403 mg/l |  |
| Marine water  | (intermittent releases)                                                                   | 0,0011 mg/l   |  |
| Freshwater se | ediment                                                                                   | 0,0499 mg/kg  |  |
| Marine sedim  | ent                                                                                       | 0,00499 mg/kg |  |
| Micro-organis | ms in sewage treatment plants (STP)                                                       | 1,03 mg/l     |  |
| Soil          |                                                                                           | 3 mg/kg       |  |
| 55965-84-9    | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one ( | 3:1)          |  |
| Freshwater    |                                                                                           | 0,00339 mg/l  |  |
| Freshwater (i | ntermittent releases)                                                                     | 0,00339 mg/l  |  |
| Marine water  |                                                                                           | 0,00339 mg/l  |  |
| Marine water  | 0,00339 mg/l                                                                              |               |  |
| Freshwater se | 0,027 mg/kg                                                                               |               |  |
| Marine sedim  | ent                                                                                       | 0,027 mg/kg   |  |
| Micro-organis | ms in sewage treatment plants (STP)                                                       | 0,23 mg/l     |  |
| Soil 0,01 m   |                                                                                           |               |  |

# 8.2. Exposure controls





# Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

### Protective and hygiene measures

Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work. Draw up and observe skin protection programme. Use protective skin cream before handling the product. When using do not eat, drink, smoke, sniff.

#### Eye/face protection

Wear eye/face protection.

## Hand protection

Wear protective gloves.

according to UK REACH Regulation

replaces vers.frm:8.04.2021 Revision date: 06.04.2022

MIXOL® Nr. 20 Oxyd-Kastanie Product code: PES96

Page 6 of 11

Suitable material: NBR (Nitrile rubber)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties of the material must be taken into consideration.

### Skin protection

Use of protective clothing.

## **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

### **Environmental exposure controls**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

|           | Physical state:                                           | Liquid (Dispersion) |                        |
|-----------|-----------------------------------------------------------|---------------------|------------------------|
|           | Colour:                                                   | brown               |                        |
|           | Odour:                                                    | odourless           |                        |
|           | pH-Value:                                                 |                     | not determined         |
|           | Changes in the physical state                             |                     |                        |
|           | Melting point/freezing point:                             |                     | not determined         |
|           | Boiling point or initial boiling point and boiling range: |                     | 100 °C                 |
|           | Flash point:                                              |                     | > 100 °C               |
|           | Flammability                                              |                     |                        |
|           | Solid:                                                    |                     | not applicable         |
|           | Gas:                                                      |                     | not applicable         |
|           | Lower explosion limits:                                   |                     | not determined         |
|           | Upper explosion limits:                                   |                     | not determined         |
|           | Auto-ignition temperature:                                |                     | not determined         |
|           | Decomposition temperature:                                |                     | > 100 °C               |
|           | Vapour pressure:                                          |                     | not determined         |
|           | Density (at 20 °C):                                       |                     | 1,65 g/cm <sup>3</sup> |
|           | Water solubility:                                         |                     | miscible               |
|           | Solubility in other solvents<br>not determined            |                     |                        |
|           | Partition coefficient n-octanol/water:                    |                     | not determined         |
|           | Viscosity / kinematic:                                    |                     | not determined         |
|           | Relative vapour density:                                  |                     | not determined         |
| <u>9.</u> | 2. Other information                                      |                     |                        |
|           | No information available.                                 |                     |                        |
|           |                                                           |                     |                        |

## **SECTION 10: Stability and reactivity**

according to UK REACH Regulation

replaces vers.frm:8.04.2021 Revision date: 06.04.2022

MIXOL® Nr. 20 Oxyd-Kastanie Product code: PES96

Page 7 of 11

## 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

# 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

# 10.5. Incompatible materials

No information available.

# 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

### Acute toxicity

Based on available data, the classification criteria are not met. ATEmix calculated: oral: > 2000 mg/kg dermal: > 2000 mg/kg Inhalation (vapour): >20 mg/L (4 h) Inhalation (dust/mist): > 5 mg/L (4h)

| CAS No     | Chemical name                                                                                 |                |                |         |              |                |  |
|------------|-----------------------------------------------------------------------------------------------|----------------|----------------|---------|--------------|----------------|--|
|            | Exposure route                                                                                | Dose           |                | Species | Source       | Method         |  |
| 112-02-7   | Cetrimonium chloride                                                                          |                |                |         |              |                |  |
|            | oral                                                                                          | LD50<br>mg/kg  | 699            | Rat     | Manufacturer |                |  |
|            | dermal                                                                                        | LD50<br>mg/kg  | 528            | Rabbit  | Manufacturer |                |  |
| 2634-33-5  | 1,2-benzisothiazol-3(2                                                                        | 2H)-one; 1,2-b | enzisothiazoli | n-3-one |              |                |  |
|            | oral                                                                                          | LD50<br>mg/kg  | 670 - 784      | Rat     | Manufacturer | OECD 401       |  |
|            | dermal                                                                                        | LD50<br>mg/kg  | > 2000         | Rat     | Manufacturer |                |  |
|            | inhalation vapour                                                                             | ATE            | 0,5 mg/l       |         |              |                |  |
|            | inhalation (4 h)<br>dust/mist                                                                 | LC50           | 0,5 mg/l       | Rat     | Manufacturer | OPPTS 870.1300 |  |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |                |                |         |              |                |  |
|            | oral                                                                                          | LD50           | 64 mg/kg       | Rat     | Manufacturer |                |  |
|            | dermal                                                                                        | LD50<br>mg/kg  | 92,4           | Rabbit  | Manufacturer |                |  |
|            | inhalation vapour                                                                             | ATE            | 0,5 mg/l       |         |              |                |  |
|            | inhalation (4 h)<br>dust/mist                                                                 | LC50<br>mg/l   | 0,171          | Rat     | Manufacturer |                |  |

Irritation and corrosivity

according to UK REACH Regulation

MIXOL® Nr. 20 Oxyd-Kastanie

| replaces vers.frm: 8.04.2021 |
|------------------------------|
| Revision date: 06.04.2022    |

Product code: PES96

Page 8 of 11

Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Result / Evaluation: non-irritant. (Rabbit)

Method: OECD 404

Test was carried out with a similar formulation. (By analogy.)

Serious eye damage/eye irritation: Result / Evaluation: non-irritant. (Rabbit) Method: OECD 405

Test was carried out with a similar formulation. (By analogy.)

### Sensitising effects

Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

# Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

# STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

| CAS No     | Chemical name                                            |                |                |           |                                        |              |          |
|------------|----------------------------------------------------------|----------------|----------------|-----------|----------------------------------------|--------------|----------|
|            | Aquatic toxicity                                         | Dose           |                | [h]   [d] | Species                                | Source       | Method   |
| 112-02-7   | Cetrimonium chloride                                     |                |                |           |                                        |              |          |
|            | Acute algae toxicity                                     | ErC50<br>mg/l  | 0,08           | 72 h      | Pseudokirchneriella<br>subcapitata     | Manufacturer | OECD 201 |
|            | Acute crustacea toxicity                                 | EC50<br>mg/l   | 0,09           | 48 h      | Daphnia magna (Big<br>water flea)      | Manufacturer | OECD 202 |
|            | Crustacea toxicity                                       | NOEC<br>mg/l   | 0,0068         |           | Daphnia magna (Big<br>water flea)      | Manufacturer | OECD 211 |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one |                |                |           |                                        |              |          |
|            | Acute algae toxicity                                     | ErC50<br>mg/l  | 0,155          |           | Selenastrum<br>capricornutum           | Manufacturer | OECD 201 |
|            | Fish toxicity                                            | NOEC<br>mg/l   | 0,21           | 28 d      | Oncorhynchus mykiss<br>(Rainbow trout) | Manufacturer | OECD 215 |
|            | Acute bacteria toxicity                                  | (EC50          | 23 mg/l)       | 3 h       | Activated sludge                       | Manufacturer | OECD 209 |
| 55965-84-9 | reaction mass of 5-chloro-                               | -2-methyl-2H   | l-isothiazol-3 | 3-one an  | d 2-methyl-2H-isothiazol-              | 3-one (3:1)  |          |
|            | Acute bacteria toxicity                                  | (EC50<br>mg/l) | 7,92           | 3 h       | Activated sludge                       | Manufacturer | OECD 209 |

### 12.2. Persistence and degradability

The product has not been tested.

according to UK REACH Regulation

#### replaces vers.frm: 8.04.2021 MIXOL® Nr. 20 Oxyd-Kastanie Revision date: 06.04.2022 Product code: PES96 Page 9 of 11 CAS No Chemical name Method Value d Source Evaluation 112-02-7 Cetrimonium chloride OECD 301B 93,5 % 28 Manufacturer Readily biodegradable (according to OECD criteria). 12.3. Bioaccumulative potential The product has not been tested. Partition coefficient n-octanol/water

| 112-02-7Cetrimonium chloride3,0855965-84-9reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)-0,71 - 0,75 | CAS No     | Chemical name                                                                                 | Log Pow      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------|--------------|
| 55965-84-9 reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) -0,71 - 0,75                               | 112-02-7   | Cetrimonium chloride                                                                          | 3,08         |
|                                                                                                                                                     | 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | -0,71 - 0,75 |

### BCF

| CAS No     | Chemical name                                                                                       | BCF  | Species                           | Source       |
|------------|-----------------------------------------------------------------------------------------------------|------|-----------------------------------|--------------|
| 112-02-7   | Cetrimonium chloride                                                                                | 70,8 |                                   | Manufacturer |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one;<br>1,2-benzisothiazolin-3-one                                         | 6,62 | Lepomis macrochirus<br>(Bluegill) | Manufacturer |
| 55965-84-9 | reaction mass of<br>5-chloro-2-methyl-2H-isothiazol-3-one<br>and 2-methyl-2H-isothiazol-3-one (3:1) | 3,6  |                                   | Manufacturer |

# 12.4. Mobility in soil

The product has not been tested.

## 12.6. Other adverse effects

No information available.

### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

# **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

# Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

## Land transport (ADR/RID)

| <u>14.1. UN number:</u>           | No dangerous good in sense of this transport regulation. |
|-----------------------------------|----------------------------------------------------------|
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |

### Inland waterways transport (ADN)

according to UK REACH Regulation

|                                                                                                                                                                                                                                                                                                                                                        | MIXOL® Nr. 20 Oxyd-Kastanie                                                                                                                                               |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Revision date: 06.04.2022                                                                                                                                                                                                                                                                                                                              | Product code: PES96 Pa                                                                                                                                                    | ge 10 of 1 |
| <u>14.1. UN number:</u>                                                                                                                                                                                                                                                                                                                                | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.2. UN proper shipping name:                                                                                                                                                                                                                                                                                                                         | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.3. Transport hazard class(es):                                                                                                                                                                                                                                                                                                                      | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.4. Packing group:                                                                                                                                                                                                                                                                                                                                   | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| Marine transport (IMDG)                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                           |            |
| <u>14.1. UN number:</u>                                                                                                                                                                                                                                                                                                                                | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.2. UN proper shipping name:                                                                                                                                                                                                                                                                                                                         | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.3. Transport hazard class(es):                                                                                                                                                                                                                                                                                                                      | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.4. Packing group:                                                                                                                                                                                                                                                                                                                                   | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| Air transport (ICAO-TI/IATA-DGR)                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                           |            |
| <u>14.1. UN number:</u>                                                                                                                                                                                                                                                                                                                                | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.2. UN proper shipping name:                                                                                                                                                                                                                                                                                                                         | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.3. Transport hazard class(es):                                                                                                                                                                                                                                                                                                                      | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.4. Packing group:                                                                                                                                                                                                                                                                                                                                   | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.5. Environmental hazards                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                           |            |
| ENVIRONMENTALLY HAZARDOUS:                                                                                                                                                                                                                                                                                                                             | No                                                                                                                                                                        |            |
| <b>14.6. Special precautions for user</b><br>No information available.                                                                                                                                                                                                                                                                                 |                                                                                                                                                                           |            |
| 14.7. Transport in bulk according to Annex                                                                                                                                                                                                                                                                                                             | I of Marpol and the IBC Code                                                                                                                                              |            |
| not applicable                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                           |            |
| SECTION 15: Regulatory information                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                           |            |
|                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                           |            |
|                                                                                                                                                                                                                                                                                                                                                        | lations/legislation specific for the substance or mixture                                                                                                                 |            |
|                                                                                                                                                                                                                                                                                                                                                        | lations/legislation specific for the substance or mixture                                                                                                                 |            |
| 15.1. Safety, health and environmental regu                                                                                                                                                                                                                                                                                                            | lations/legislation specific for the substance or mixture                                                                                                                 |            |
| 15.1. Safety, health and environmental regu<br>EU regulatory information                                                                                                                                                                                                                                                                               | lations/legislation specific for the substance or mixture                                                                                                                 |            |
| <b>15.1. Safety, health and environmental regu</b><br><b>EU regulatory information</b><br>Restrictions on use (REACH, annex XVII):                                                                                                                                                                                                                     | lations/legislation specific for the substance or mixture                                                                                                                 |            |
| 15.1. Safety, health and environmental regule<br>EU regulatory information<br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75                                                                                                                                                                                                            |                                                                                                                                                                           |            |
| 15.1. Safety, health and environmental regulatory information<br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU                                                                                                                                                             | < 35 %                                                                                                                                                                    |            |
| 15.1. Safety, health and environmental regule<br>EU regulatory information<br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU<br>(SEVESO III):                                                                                                                               | < 35 %                                                                                                                                                                    |            |
| <ul> <li>15.1. Safety, health and environmental regulatory information</li> <li>Restrictions on use (REACH, annex XVII):<br/>Entry 3, Entry 75</li> <li>2004/42/EC (VOC):</li> <li>Information according to 2012/18/EU<br/>(SEVESO III):</li> <li>National regulatory information</li> </ul>                                                           | < 35 %<br>Not subject to 2012/18/EU (SEVESO III)<br>Observe restrictions to employment for juveniles according to the 'juvenile                                           |            |
| <ul> <li>15.1. Safety, health and environmental regulatory information         Restrictions on use (REACH, annex XVII): Entry 3, Entry 75         2004/42/EC (VOC):         Information according to 2012/18/EU (SEVESO III):         National regulatory information         Employment restrictions:         Water hazard class (D):     </li> </ul> | < 35 %<br>Not subject to 2012/18/EU (SEVESO III)<br>Observe restrictions to employment for juveniles according to the 'juvenile<br>work protection guideline' (94/33/EC). |            |
| <ul> <li>15.1. Safety, health and environmental regulatory information         Restrictions on use (REACH, annex XVII): Entry 3, Entry 75         2004/42/EC (VOC):         Information according to 2012/18/EU (SEVESO III):         National regulatory information         Employment restrictions:         Water hazard class (D):     </li> </ul> | < 35 %<br>Not subject to 2012/18/EU (SEVESO III)<br>Observe restrictions to employment for juveniles according to the 'juvenile<br>work protection guideline' (94/33/EC). |            |

CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate

according to UK REACH Regulation

replaces vers.frm: 8.04.2021 MIXOL® Nr. 20 Oxyd-Kastanie Product code: PES96 Revision date: 06.04.2022 Page 11 of 11 LC50: Lethal concentration, 50% LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: verv persistent, verv bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) IMDG: International Maritime Code for Dangerous Goods EmS: Emergency Schedules MFAG: Medical First Aid Guide IATA: International Air Transport Association ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

### Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Aquatic Chronic 3; H412 | Calculation method       |

### Relevant H and EUH statements (number and full text)

| H301   | Toxic if swallowed.                                                                                                                                                                                        |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H302   | Harmful if swallowed.                                                                                                                                                                                      |
| H310   | Fatal in contact with skin.                                                                                                                                                                                |
| H311   | Toxic in contact with skin.                                                                                                                                                                                |
| H314   | Causes severe skin burns and eye damage.                                                                                                                                                                   |
| H315   | Causes skin irritation.                                                                                                                                                                                    |
| H317   | May cause an allergic skin reaction.                                                                                                                                                                       |
| H318   | Causes serious eye damage.                                                                                                                                                                                 |
| H330   | Fatal if inhaled.                                                                                                                                                                                          |
| H400   | Very toxic to aquatic life.                                                                                                                                                                                |
| H410   | Very toxic to aquatic life with long lasting effects.                                                                                                                                                      |
| H411   | Toxic to aquatic life with long lasting effects.                                                                                                                                                           |
| H412   | Harmful to aquatic life with long lasting effects.                                                                                                                                                         |
| EUH071 | Corrosive to the respiratory tract.                                                                                                                                                                        |
| EUH208 | Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5<br>-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce<br>an allergic reaction. |

### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

according to UK REACH Regulation

replaces vers.frm: 8.04.2021 MIXOL® Nr. 23 Oxyd-Dunkelbraun Revision date: 06.04.2022 Product code: PES102 Page 1 of 11 SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier MIXOL® Nr. 23 Oxvd-Dunkelbraun 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture Colour, Pigment 1.3. Details of the supplier of the safety data sheet MIXOL-PRODUKTE Diebold GmbH Company name: Street: Carl-Zeiss-Str. 17-19 D-73230 Kirchheim/Teck Place: Telephone: +49/(0)7021 / 950090 Telefax: +49/(0)7021 / 56030 e-mail: Technik@mixol.de e-mail (Contact person): Internet: Responsible Department: Technik 1.4. Emergency telephone Emergency CONTACT (24 h) GBK GmbH +49/(0)6132 / 84463 number: **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture **GB CLP Regulation** Aquatic Chronic 3; H412 Full text of hazard statements: see SECTION 16. 2.2. Label elements **GB CLP Regulation** Hazard statements H412 Harmful to aquatic life with long lasting effects. **Precautionary statements** P273 Avoid release to the environment. P501 Dispose of waste according to applicable legislation. Special labelling of certain mixtures EUH208 Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5 -chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

according to UK REACH Regulation

replaces vers.frm:8.04.2021 Revision date: 06.04.2022

MIXOL® Nr. 23 Oxyd-Dunkelbraun Product code: PES102

Page 2 of 11

### Hazardous components

| CAS No     | Chemical name                                                             |                              | Quantity         |             |
|------------|---------------------------------------------------------------------------|------------------------------|------------------|-------------|
|            | EC No                                                                     | Index No                     | REACH No         |             |
|            | GHS Classification                                                        | •                            |                  |             |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd.,                                         | ethoxylated                  |                  | 10 - < 15 % |
|            | 500-236-9                                                                 |                              |                  |             |
|            | Skin Irrit. 2, Aquatic Acute 1, Aquat                                     | ic Chronic 3; H315 H400 H412 |                  |             |
| 112-02-7   | Cetrimonium chloride                                                      |                              | < 1 %            |             |
|            | 203-928-6                                                                 |                              |                  |             |
|            | Acute Tox. 3, Acute Tox. 4, Skin Co<br>H302 H314 H318 H400 H410           | , Aquatic Chronic 1; H311    |                  |             |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-b                                       |                              | < 0.1 %          |             |
|            | 220-120-9                                                                 | 613-088-00-6                 | 01-2120761540-60 |             |
|            | Acute Tox. 2, Acute Tox. 4, Skin Irr<br>Chronic 2; H330 H302 H315 H318    | atic Acute 1, Aquatic        |                  |             |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-                                       | H-isothiazol-3-one (3:1)     | < 0.1 %          |             |
|            | -                                                                         | 613-167-00-5                 | 01-2120764691-48 |             |
|            | Acute Tox. 2, Acute Tox. 2, Acute T<br>Acute 1, Aquatic Chronic 1; H330 H |                              |                  |             |

Full text of H and EUH statements: see section 16.

### **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### **General information**

When in doubt or if symptoms are observed, get medical advice.

#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical advice/attention.

### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

### After ingestion

Observe risk of aspiration if vomiting occurs. @0405.B004145 Get medical advice/attention.

# 4.2. Most important symptoms and effects, both acute and delayed

No information available.

# 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

## Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Water spray jet, Extinguishing powder, Carbon dioxide (CO2), alcohol resistant foam.

according to UK REACH Regulation

# MIXOL® Nr. 23 Oxyd-Dunkelbraun

replaces vers.frm:8.04.2021 Revision date: 06.04.2022

Product code: PES102

Page 3 of 11

## Unsuitable extinguishing media

Full water jet

# 5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

# 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures** 

### 6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### 6.3. Methods and material for containment and cleaning up

Clean contaminated articles and floor according to the environmental legislation.

## 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

### Advice on safe handling

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray. Use personal protection equipment.

### Advice on protection against fire and explosion

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

## Further information on handling

Handle and open container with care.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

No information available.

### Further information on storage conditions

storage stability: >= 36 month(s)

### 7.3. Specific end use(s)

Colour, Pigment

### **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

according to UK REACH Regulation

replaces vers.frm:8.04.2021 Revision date: 06.04.2022

MIXOL® Nr. 23 Oxyd-Dunkelbraun Product code: PES102

Page 4 of 11

# Exposure limits (EH40)

| CAS No    | Substance                                                       | ppm | mg/m³ | fibres/ml | Category      | Origin |
|-----------|-----------------------------------------------------------------|-----|-------|-----------|---------------|--------|
| 1309-37-1 | Iron oxide, fume (as Fe)                                        | -   | 5     |           | TWA (8 h)     | WEL    |
|           |                                                                 | -   | 10    |           | STEL (15 min) | WEL    |
| -         | Iron salts (as Fe)                                              | -   | 1     |           | TWA (8 h)     | WEL    |
|           |                                                                 | -   | 2     |           | STEL (15 min) | WEL    |
| -         | Manganese: its inorganic compounds (as Mn, inhalable fraction)  | -   | 0.2   |           | TWA (8 h)     | WEL    |
| -         | Manganese: its inorganic compounds (as Mn, respirable fraction) | -   | 0.05  |           | TWA (8 h)     | WEL    |
| 1309-37-1 | Rouge, respirable                                               | -   | 4     |           | TWA (8 h)     | WEL    |
| 1309-37-1 | Rouge, total inhalable                                          | -   | 10    |           | TWA (8 h)     | WEL    |
| -         | Silica, amorphous, inhalable dust                               | -   | 6     |           | TWA (8 h)     | WEL    |
| -         | Silica, amorphous, respirable dust                              | -   | 2.4   |           | TWA (8 h)     | WEL    |

# **DNEL/DMEL** values

| CAS No               | Substance                                                |                        |                  |                        |
|----------------------|----------------------------------------------------------|------------------------|------------------|------------------------|
| DNEL type            |                                                          | Exposure route         | Effect           | Value                  |
| 112-02-7             | Cetrimonium chloride                                     |                        |                  |                        |
| Worker DNEL,         | , long-term                                              | inhalation             | systemic         | 3,32 mg/m <sup>3</sup> |
| Worker DNEL,         | , long-term                                              | dermal                 | systemic         | 4,7 mg/kg bw/day       |
| Consumer DN          | EL, long-term                                            | inhalation             | systemic         | 0,98 mg/m³             |
| Consumer DN          | EL, long-term                                            | dermal                 | systemic         | 2,83 mg/kg<br>bw/day   |
| Consumer DN          | EL, long-term                                            | oral                   | systemic         | 2,83 mg/kg<br>bw/day   |
| 2634-33-5            | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one |                        |                  |                        |
| Worker DNEL,         | , long-term                                              | inhalation             | systemic         | 6,81 mg/m³             |
| Worker DNEL,         | long-term                                                | dermal                 | systemic         | 0,966 mg/kg<br>bw/day  |
| Consumer DN          | EL, long-term                                            | inhalation             | systemic         | 1,2 mg/m <sup>3</sup>  |
| Consumer DN          | EL, long-term                                            | dermal                 | systemic         | 0,345 mg/kg<br>bw/day  |
| 55965-84-9           | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one a | nd 2-methyl-2H-isothia | azol-3-one (3:1) |                        |
| Worker DNEL,         | , long-term                                              | inhalation             | local            | 0,02 mg/m³             |
| Worker DNEL,         | , acute                                                  | inhalation             | local            | 0,04 mg/m³             |
| Consumer DN          | EL, long-term                                            | inhalation             | local            | 0,02 mg/m <sup>3</sup> |
| Consumer DNEL, acute |                                                          | inhalation             | local            | 0,04 mg/m <sup>3</sup> |
| Consumer DN          | EL, long-term                                            | oral                   | systemic         | 0,11 mg/kg<br>bw/day   |
| Consumer DN          | EL, acute                                                | oral                   | systemic         | 0,09 mg/kg<br>bw/day   |

according to UK REACH Regulation

replaces vers.frm:8.04.2021 Revision date: 06.04.2022

MIXOL® Nr. 23 Oxyd-Dunkelbraun Product code: PES102

Page 5 of 11

#### **PNEC** values

| CAS No                                           | Substance                                                                               |               |
|--------------------------------------------------|-----------------------------------------------------------------------------------------|---------------|
| Environmenta                                     | al compartment                                                                          | Value         |
| 112-02-7                                         | Cetrimonium chloride                                                                    |               |
| Freshwater                                       | 0,00063 mg/l                                                                            |               |
| Freshwater (i                                    | ntermittent releases)                                                                   | 0,0008 mg/l   |
| Marine water                                     |                                                                                         | 0,000068 mg/l |
| Freshwater s                                     | ediment                                                                                 | 9,27 mg/kg    |
| Marine sedim                                     | ent                                                                                     | 0,927 mg/kg   |
| Micro-organis                                    | sms in sewage treatment plants (STP)                                                    | 0,4 mg/l      |
| Soil                                             |                                                                                         | 7 mg/kg       |
| 2634-33-5                                        | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                                |               |
| Freshwater                                       |                                                                                         | 0,00403 mg/l  |
| Freshwater (i                                    | ntermittent releases)                                                                   | 0,0011 mg/l   |
| Marine water                                     | 0,000403 mg/l                                                                           |               |
| Marine water (intermittent releases)             |                                                                                         | 0,0011 mg/l   |
| Freshwater sediment                              |                                                                                         | 0,0499 mg/kg  |
| Marine sediment                                  |                                                                                         | 0,00499 mg/kg |
| Micro-organisms in sewage treatment plants (STP) |                                                                                         | 1,03 mg/l     |
| Soil                                             |                                                                                         | 3 mg/kg       |
| 55965-84-9                                       | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | (3:1)         |
| Freshwater                                       |                                                                                         | 0,00339 mg/l  |
| Freshwater (i                                    | ntermittent releases)                                                                   | 0,00339 mg/l  |
| Marine water                                     | 0,00339 mg/l                                                                            |               |
| Marine water                                     | 0,00339 mg/l                                                                            |               |
| Freshwater sediment                              |                                                                                         | 0,027 mg/kg   |
| Marine sedim                                     | ent                                                                                     | 0,027 mg/kg   |
| Micro-organis                                    | sms in sewage treatment plants (STP)                                                    | 0,23 mg/l     |
| Soil                                             |                                                                                         | 0,01 mg/kg    |

# 8.2. Exposure controls





# Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

### Protective and hygiene measures

Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work. Draw up and observe skin protection programme. Use protective skin cream before handling the product. When using do not eat, drink, smoke, sniff.

### Eye/face protection

Wear eye/face protection.

## Hand protection

Wear protective gloves.

according to UK REACH Regulation

replaces vers.frm: 8.04.2021

MIXOL® Nr. 23 Oxyd-Dunkelbraun

Revision date: 06.04.2022

Product code: PES102

Page 6 of 11

Suitable material: NBR (Nitrile rubber)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties of the material must be taken into consideration.

### Skin protection

Use of protective clothing.

## **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

### **Environmental exposure controls**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

| Physical state:                                           | Liquid (Dispersion) |                |
|-----------------------------------------------------------|---------------------|----------------|
| Colour:                                                   | brown               |                |
| Odour:                                                    | odourless           |                |
| pH-Value:                                                 |                     | not determined |
| Changes in the physical state                             |                     |                |
| Melting point/freezing point:                             |                     | not determined |
| Boiling point or initial boiling point and boiling range: |                     | 100 °C         |
| Flash point:                                              |                     | > 100 °C       |
| Flammability                                              |                     |                |
| Solid:                                                    |                     | not applicable |
| Gas:                                                      |                     | not applicable |
| Lower explosion limits:                                   |                     | not determined |
| Upper explosion limits:                                   |                     | not determined |
| Auto-ignition temperature:                                |                     | not determined |
| Decomposition temperature:                                |                     | > 100 °C       |
| Vapour pressure:                                          |                     | not determined |
| Density (at 20 °C):                                       |                     | 1,9 g/cm³      |
| Water solubility:                                         |                     | miscible       |
| Solubility in other solvents<br>not determined            |                     |                |
| Partition coefficient n-octanol/water:                    |                     | not determined |
| Viscosity / kinematic:                                    |                     | not determined |
| Relative vapour density:                                  |                     | not determined |
| 9.2. Other information                                    |                     |                |
| No information available.                                 |                     |                |

## **SECTION 10: Stability and reactivity**

according to UK REACH Regulation

replaces vers.frm:8.04.2021 Revision date: 06.04.2022

MIXOL® Nr. 23 Oxyd-Dunkelbraun Product code: PES102

Page 7 of 11

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

## 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5. Incompatible materials

No information available.

## 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met. ATEmix calculated: oral: > 2000 mg/kg dermal: > 2000 mg/kg Inhalation (vapour): >20 mg/L (4 h) Inhalation (dust/mist): > 5 mg/L (4h)

| CAS No     | Chemical name                                                                                 |                |                |         |              |                |
|------------|-----------------------------------------------------------------------------------------------|----------------|----------------|---------|--------------|----------------|
|            | Exposure route                                                                                | Dose           |                | Species | Source       | Method         |
| 112-02-7   | Cetrimonium chloride                                                                          |                |                |         |              |                |
|            | oral                                                                                          | LD50<br>mg/kg  | 699            | Rat     | Manufacturer |                |
|            | dermal                                                                                        | LD50<br>mg/kg  | 528            | Rabbit  | Manufacturer |                |
| 2634-33-5  | 1,2-benzisothiazol-3(2                                                                        | 2H)-one; 1,2-b | enzisothiazoli | n-3-one |              |                |
|            | oral                                                                                          | LD50<br>mg/kg  | 670 - 784      | Rat     | Manufacturer | OECD 401       |
|            | dermal                                                                                        | LD50<br>mg/kg  | > 2000         | Rat     | Manufacturer |                |
|            | inhalation vapour                                                                             | ATE            | 0,5 mg/l       |         |              |                |
|            | inhalation (4 h)<br>dust/mist                                                                 | LC50           | 0,5 mg/l       | Rat     | Manufacturer | OPPTS 870.1300 |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |                |                |         |              |                |
|            | oral                                                                                          | LD50           | 64 mg/kg       | Rat     | Manufacturer |                |
|            | dermal                                                                                        | LD50<br>mg/kg  | 92,4           | Rabbit  | Manufacturer |                |
|            | inhalation vapour                                                                             | ATE            | 0,5 mg/l       |         |              |                |
|            | inhalation (4 h)<br>dust/mist                                                                 | LC50<br>mg/l   | 0,171          | Rat     | Manufacturer |                |

Irritation and corrosivity

according to UK REACH Regulation

| replaces | vers.frm: | 8.04.2021 |
|----------|-----------|-----------|
|----------|-----------|-----------|

Revision date: 06.04.2022

MIXOL® Nr. 23 Oxyd-Dunkelbraun Product code: PES102

Page 8 of 11

Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Result / Evaluation: non-irritant. (Rabbit)

Method: OECD 404

Test was carried out with a similar formulation. (By analogy.)

Serious eye damage/eye irritation: Result / Evaluation: non-irritant. (Rabbit)

Method: OECD 405

Test was carried out with a similar formulation. (By analogy.)

## Sensitising effects

Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

## Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

### STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

### **SECTION 12: Ecological information**

## 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

| CAS No     | Chemical name                                            |                |                |           |                                        |              |          |
|------------|----------------------------------------------------------|----------------|----------------|-----------|----------------------------------------|--------------|----------|
|            | Aquatic toxicity                                         | Dose           |                | [h]   [d] | Species                                | Source       | Method   |
| 112-02-7   | Cetrimonium chloride                                     |                |                |           |                                        |              |          |
|            | Acute algae toxicity                                     | ErC50<br>mg/l  | 0,08           | 72 h      | Pseudokirchneriella<br>subcapitata     | Manufacturer | OECD 201 |
|            | Acute crustacea toxicity                                 | EC50<br>mg/l   | 0,09           | 48 h      | Daphnia magna (Big<br>water flea)      | Manufacturer | OECD 202 |
|            | Crustacea toxicity                                       | NOEC<br>mg/l   | 0,0068         |           | Daphnia magna (Big<br>water flea)      | Manufacturer | OECD 211 |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one |                |                |           |                                        |              |          |
|            | Acute algae toxicity                                     | ErC50<br>mg/l  | 0,155          | 72 h      | Selenastrum<br>capricornutum           | Manufacturer | OECD 201 |
|            | Fish toxicity                                            | NOEC<br>mg/l   | 0,21           | 28 d      | Oncorhynchus mykiss<br>(Rainbow trout) | Manufacturer | OECD 215 |
|            | Acute bacteria toxicity                                  | (EC50          | 23 mg/l)       | 3 h       | Activated sludge                       | Manufacturer | OECD 209 |
| 55965-84-9 | reaction mass of 5-chloro-                               | -2-methyl-2l   | H-isothiazol-3 | B-one and | d 2-methyl-2H-isothiazol-              | 3-one (3:1)  |          |
|            | Acute bacteria toxicity                                  | (EC50<br>mg/l) | 7,92           | 3 h       | Activated sludge                       | Manufacturer | OECD 209 |

## 12.2. Persistence and degradability

The product has not been tested.

according to UK REACH Regulation

replaces vers.frm: 8.04.2021 MIXOL® Nr. 23 Oxyd-Dunkelbraun Revision date: 06.04.2022 Product code: PES102 Page 9 of 11 CAS No Chemical name Method Value d Source Evaluation 112-02-7 Cetrimonium chloride OECD 301B 93,5 % 28 Manufacturer Readily biodegradable (according to OECD criteria). 12.3. Bioaccumulative potential The product has not been tested. Partition coefficient n-octanol/water CAS No Chemical name Log Pow

| 112-02-7   | Cetrimonium chloride                                                                          | 3,08 |
|------------|-----------------------------------------------------------------------------------------------|------|
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |      |
|            |                                                                                               |      |

| BC | F |
|----|---|
|    |   |

| CAS No     | Chemical name                                                                                       | BCF  | Species                           | Source       |
|------------|-----------------------------------------------------------------------------------------------------|------|-----------------------------------|--------------|
| 112-02-7   | Cetrimonium chloride                                                                                | 70,8 |                                   | Manufacturer |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one;<br>1,2-benzisothiazolin-3-one                                         | 6,62 | Lepomis macrochirus<br>(Bluegill) | Manufacturer |
| 55965-84-9 | reaction mass of<br>5-chloro-2-methyl-2H-isothiazol-3-one<br>and 2-methyl-2H-isothiazol-3-one (3:1) | 3,6  |                                   | Manufacturer |

## 12.4. Mobility in soil

The product has not been tested.

### 12.6. Other adverse effects

No information available.

#### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

## **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

## Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

## Land transport (ADR/RID)

| <u>14.1. UN number:</u>           | No dangerous good in sense of this transport regulation. |
|-----------------------------------|----------------------------------------------------------|
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |

#### Inland waterways transport (ADN)

according to UK REACH Regulation

|                                                                                         | MIXOL® Nr. 23 Oxyd-Dunkelbraun                                                                                     |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Revision date: 06.04.2022                                                               | Product code: PES102 Page 10                                                                                       |
| <u>14.1. UN number:</u>                                                                 | No dangerous good in sense of this transport regulation.                                                           |
| 14.2. UN proper shipping name:                                                          | No dangerous good in sense of this transport regulation.                                                           |
| <u>14.3. Transport hazard class(es):</u>                                                | No dangerous good in sense of this transport regulation.                                                           |
| 14.4. Packing group:                                                                    | No dangerous good in sense of this transport regulation.                                                           |
| Marine transport (IMDG)                                                                 |                                                                                                                    |
| <u>14.1. UN number:</u>                                                                 | No dangerous good in sense of this transport regulation.                                                           |
| 14.2. UN proper shipping name:                                                          | No dangerous good in sense of this transport regulation.                                                           |
| 14.3. Transport hazard class(es):                                                       | No dangerous good in sense of this transport regulation.                                                           |
| 14.4. Packing group:                                                                    | No dangerous good in sense of this transport regulation.                                                           |
| Air transport (ICAO-TI/IATA-DGR)                                                        |                                                                                                                    |
| <u>14.1. UN number:</u>                                                                 | No dangerous good in sense of this transport regulation.                                                           |
| 14.2. UN proper shipping name:                                                          | No dangerous good in sense of this transport regulation.                                                           |
| 14.3. Transport hazard class(es):                                                       | No dangerous good in sense of this transport regulation.                                                           |
| 14.4. Packing group:                                                                    | No dangerous good in sense of this transport regulation.                                                           |
| 14.5. Environmental hazards                                                             |                                                                                                                    |
| ENVIRONMENTALLY HAZARDOUS:                                                              | No                                                                                                                 |
| 14.6. Special precautions for user                                                      |                                                                                                                    |
| No information available.                                                               |                                                                                                                    |
| 14.7. Transport in bulk according to Annex I                                            | I of Marpol and the IBC Code                                                                                       |
| not applicable                                                                          |                                                                                                                    |
| SECTION 15: Regulatory information                                                      |                                                                                                                    |
| 15.1. Safety, health and environmental regul                                            | ations/legislation specific for the substance or mixture                                                           |
| EU regulatory information                                                               |                                                                                                                    |
| Restrictions on use (REACH, annex XVII):                                                |                                                                                                                    |
| Entry 3, Entry 75                                                                       |                                                                                                                    |
| 2004/42/EC (VOC):                                                                       | < 22 %                                                                                                             |
| Information according to 2012/18/EU<br>(SEVESO III):                                    | Not subject to 2012/18/EU (SEVESO III)                                                                             |
|                                                                                         |                                                                                                                    |
| National regulatory information                                                         |                                                                                                                    |
| National regulatory information<br>Employment restrictions:                             | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). |
|                                                                                         |                                                                                                                    |
| Employment restrictions:<br>Water hazard class (D):                                     | work protection guideline' (94/33/EC).                                                                             |
| Employment restrictions:<br>Water hazard class (D):<br>15.2. Chemical safety assessment | work protection guideline' (94/33/EC).                                                                             |

CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate

according to UK REACH Regulation

| replaces vers.frm:8.04.2021                           | MIXOL® Nr. 23 Oxyd-Dunkelbraun                                                        |               |  |  |
|-------------------------------------------------------|---------------------------------------------------------------------------------------|---------------|--|--|
| Revision date: 06.04.2022                             | Product code: PES102                                                                  | Page 11 of 11 |  |  |
| LC50: Lethal concentration, 50%                       |                                                                                       |               |  |  |
| LD50: Lethal dose, 50%                                |                                                                                       |               |  |  |
| LL50: Lethal loading, 50%                             |                                                                                       |               |  |  |
| EL50: Effect loading, 50%                             |                                                                                       |               |  |  |
| EC50: Effective Concentration 50%                     |                                                                                       |               |  |  |
| ErC50: Effective Concentration 50%,                   | growth rate                                                                           |               |  |  |
| NOEC: No Observed Effect Concent                      | ration                                                                                |               |  |  |
| BCF: Bio-concentration factor                         |                                                                                       |               |  |  |
| PBT: persistent, bioaccumulative, to                  |                                                                                       |               |  |  |
| vPvB: very persistent, very bioaccum                  |                                                                                       |               |  |  |
|                                                       | ADR: Accord européen sur le transport des marchandises dangereuses par Route          |               |  |  |
|                                                       | (European Agreement concerning the International Carriage of Dangerous Goods by Road) |               |  |  |
| <b>.</b>                                              | RID: Regulations concerning the international carriage of dangerous goods by rail     |               |  |  |
|                                                       | ng the International Carriage of Dangerous Goods by Inland Waterways                  |               |  |  |
| (Accord européen relatif au transport<br>intérieures) | international des marchandises dangereuses par voies de navigation                    |               |  |  |
| IMDG: International Maritime Code for                 | or Dangerous Goods                                                                    |               |  |  |
| EmS: Emergency Schedules                              |                                                                                       |               |  |  |
| MFAG: Medical First Aid Guide                         |                                                                                       |               |  |  |
| IATA: International Air Transport Ass                 |                                                                                       |               |  |  |
| ICAO: International Civil Aviation Org                |                                                                                       |               |  |  |
|                                                       | or the Prevention of Marine Pollution from Ships                                      |               |  |  |
| IBC: Intermediate Bulk Container                      |                                                                                       |               |  |  |
| VOC: Volatile Organic Compounds                       |                                                                                       |               |  |  |
| SVHC: Substance of Very High Cond                     |                                                                                       |               |  |  |
| For abbreviations and acronyms, see                   | e table at http://abbrev.esdscom.eu                                                   |               |  |  |

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification          | Classification procedure |  |
|-------------------------|--------------------------|--|
| Aquatic Chronic 3; H412 | Calculation method       |  |

#### Relevant H and EUH statements (number and full text)

| H301   | Toxic if swallowed.                                                                                                                                                                                        |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H302   | Harmful if swallowed.                                                                                                                                                                                      |
| H310   | Fatal in contact with skin.                                                                                                                                                                                |
| H311   | Toxic in contact with skin.                                                                                                                                                                                |
| H314   | Causes severe skin burns and eye damage.                                                                                                                                                                   |
| H315   | Causes skin irritation.                                                                                                                                                                                    |
| H317   | May cause an allergic skin reaction.                                                                                                                                                                       |
| H318   | Causes serious eye damage.                                                                                                                                                                                 |
| H330   | Fatal if inhaled.                                                                                                                                                                                          |
| H400   | Very toxic to aquatic life.                                                                                                                                                                                |
| H410   | Very toxic to aquatic life with long lasting effects.                                                                                                                                                      |
| H411   | Toxic to aquatic life with long lasting effects.                                                                                                                                                           |
| H412   | Harmful to aquatic life with long lasting effects.                                                                                                                                                         |
| EUH071 | Corrosive to the respiratory tract.                                                                                                                                                                        |
| EUH208 | Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5<br>-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce<br>an allergic reaction. |

#### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

according to UK REACH Regulation

|                                       | according to UK REACH R                                                | tegulation                                                                            |  |  |  |
|---------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|--|--|
| replaces vers.frm:8.04.2021           | MIXOL® Nr. 24 Oxyd-St                                                  | teingrau                                                                              |  |  |  |
| Revision date: 06.04.2022             | Product code: PES1                                                     | 103 Page 1 of 7                                                                       |  |  |  |
| SECTION 1: Identificatio              | n of the substance/mixture and of the com                              | npany/undertaking                                                                     |  |  |  |
| 1.1. Product identifier               |                                                                        |                                                                                       |  |  |  |
| MIXOL® Nr. 24 Ox                      |                                                                        |                                                                                       |  |  |  |
| Use of the substance/m                | s of the substance or mixture and uses advise                          |                                                                                       |  |  |  |
| Colour, Pigment                       | Ixture                                                                 |                                                                                       |  |  |  |
| 1.3. Details of the supplier          | of the safety data sheet                                               |                                                                                       |  |  |  |
| Company name:                         | MIXOL-PRODUKTE Diebold GmbH                                            |                                                                                       |  |  |  |
| Street:                               | Carl-Zeiss-Str. 17-19                                                  |                                                                                       |  |  |  |
| Place:                                | D-73230 Kirchheim/Teck                                                 |                                                                                       |  |  |  |
| Telephone:                            | +49/(0)7021 / 950090                                                   | Telefax: +49/(0)7021 / 56030                                                          |  |  |  |
| e-mail:                               | Taskail@miusl.da                                                       |                                                                                       |  |  |  |
| e-mail (Contact person):<br>Internet: | Technik@mixol.de                                                       |                                                                                       |  |  |  |
| Responsible Department                | : Technik                                                              |                                                                                       |  |  |  |
| 1.4. Emergency telephone              |                                                                        | Emergency CONTACT (24 h) GBK GmbH +49/(0)6132 / 84463                                 |  |  |  |
| number:                               |                                                                        |                                                                                       |  |  |  |
|                                       |                                                                        |                                                                                       |  |  |  |
| SECTION 2: Hazards ide                | ntification                                                            |                                                                                       |  |  |  |
| 2.1. Classification of the su         | bstance or mixture                                                     |                                                                                       |  |  |  |
| GB CLP Regulation                     |                                                                        |                                                                                       |  |  |  |
| Aquatic Chronic 3; H                  | 412                                                                    |                                                                                       |  |  |  |
| · · · · · · · · · · · · · · · · · · · |                                                                        |                                                                                       |  |  |  |
| Full text of hazard sta               | atements: see SECTION 16.                                              |                                                                                       |  |  |  |
| 2.2. Label elements                   |                                                                        |                                                                                       |  |  |  |
| GB CLP Regulation                     |                                                                        |                                                                                       |  |  |  |
| Hazard statements                     |                                                                        |                                                                                       |  |  |  |
| H412                                  | Harmful to aquatic life with long lasting effects.                     |                                                                                       |  |  |  |
| Precautionary statemer                |                                                                        |                                                                                       |  |  |  |
| P273                                  | Avoid release to the environment.                                      |                                                                                       |  |  |  |
| P501                                  | Dispose of waste according to applicable legisl                        | lation.                                                                               |  |  |  |
| Special labelling of cert             | ain mixtures                                                           |                                                                                       |  |  |  |
| EUH208                                |                                                                        | Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5 |  |  |  |
|                                       | -chloro-2-methyl-2H-isothiazol-3-one and 2-me<br>an allergic reaction. | thyl-2H-isothiazol-3-one (3:1). May produce                                           |  |  |  |
| 2.3. Other hazards                    |                                                                        |                                                                                       |  |  |  |
| The substances in th                  | e mixture do not meet the PBT/vPvB criteria acco                       | ording to REACH, annex XIII.                                                          |  |  |  |
| <b>SECTION 3: Compositio</b>          | n/information on ingredients                                           |                                                                                       |  |  |  |
| -                                     |                                                                        |                                                                                       |  |  |  |
| <u>3.2. Mixtures</u>                  |                                                                        |                                                                                       |  |  |  |

according to UK REACH Regulation

replaces vers.frm:8.04.2021 Revision date: 06.04.2022

MIXOL® Nr. 24 Oxyd-Steingrau Product code: PES103

Page 2 of 11

#### Hazardous components

| CAS No     | Chemical name                                                          |                                                                         |                          | Quantity |
|------------|------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------|----------|
|            | EC No                                                                  | Index No                                                                | REACH No                 |          |
|            | GHS Classification                                                     | 1                                                                       |                          |          |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd.,                                      |                                                                         | 10 - < 15 %              |          |
|            | 500-236-9                                                              |                                                                         |                          |          |
|            | Skin Irrit. 2, Aquatic Acute 1, Aquat                                  | ic Chronic 3; H315 H400 H412                                            |                          |          |
| 112-02-7   | Cetrimonium chloride                                                   |                                                                         | < 1 %                    |          |
|            | 203-928-6                                                              |                                                                         |                          |          |
|            | Acute Tox. 3, Acute Tox. 4, Skin Co<br>H302 H314 H318 H400 H410        | , Aquatic Chronic 1; H311                                               |                          |          |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-b                                    |                                                                         | < 0.1 %                  |          |
|            | 220-120-9                                                              | 613-088-00-6                                                            | 01-2120761540-60         |          |
|            | Acute Tox. 2, Acute Tox. 4, Skin Irr<br>Chronic 2; H330 H302 H315 H318 | it. 2, Eye Dam. 1, Skin Sens. 1, Aqua<br>H317 H400 H411                 | atic Acute 1, Aquatic    |          |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-                                    | 2H-isothiazol-3-one and 2-methyl-2H                                     | H-isothiazol-3-one (3:1) | < 0.1 %  |
|            | -                                                                      | 613-167-00-5                                                            | 01-2120764691-48         |          |
|            |                                                                        | ōx. 3, Skin Corr. 1C, Eye Dam. 1, Sl<br>I310 H301 H314 H318 H317 H400 H |                          |          |

Full text of H and EUH statements: see section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

When in doubt or if symptoms are observed, get medical advice.

#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical advice/attention.

### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

#### After ingestion

Observe risk of aspiration if vomiting occurs. @0405.B004145 Get medical advice/attention.

## 4.2. Most important symptoms and effects, both acute and delayed

No information available.

## 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Water spray jet, Extinguishing powder, Carbon dioxide (CO2), alcohol resistant foam.

according to UK REACH Regulation

## replaces vers.frm: 8.04.2021 Revision date: 06.04.2022

MIXOL® Nr. 24 Oxyd-Steingrau Product code: PES103

Page 3 of 11

#### Unsuitable extinguishing media

Full water jet

## 5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

## 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures** 

#### 6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### 6.3. Methods and material for containment and cleaning up

Clean contaminated articles and floor according to the environmental legislation.

## 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray. Use personal protection equipment.

#### Advice on protection against fire and explosion

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

## Further information on handling

Handle and open container with care.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

No information available.

#### Further information on storage conditions

storage stability: >= 36 month(s)

#### 7.3. Specific end use(s)

Colour, Pigment

#### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

according to UK REACH Regulation

replaces vers.frm:8.04.2021 Revision date: 06.04.2022

MIXOL® Nr. 24 Oxyd-Steingrau Product code: PES103

Page 4 of 11

## Exposure limits (EH40)

| CAS No    | Substance                                                       | ppm | mg/m³ | fibres/ml | Category      | Origin |
|-----------|-----------------------------------------------------------------|-----|-------|-----------|---------------|--------|
| 1309-37-1 | Iron oxide, fume (as Fe)                                        | -   | 5     |           | TWA (8 h)     | WEL    |
|           |                                                                 | -   | 10    |           | STEL (15 min) | WEL    |
| -         | Iron salts (as Fe)                                              | -   | 1     |           | TWA (8 h)     | WEL    |
|           |                                                                 | -   | 2     |           | STEL (15 min) | WEL    |
| -         | Manganese: its inorganic compounds (as Mn, inhalable fraction)  | -   | 0.2   |           | TWA (8 h)     | WEL    |
| -         | Manganese: its inorganic compounds (as Mn, respirable fraction) | -   | 0.05  |           | TWA (8 h)     | WEL    |
| 1309-37-1 | Rouge, respirable                                               | -   | 4     |           | TWA (8 h)     | WEL    |
| 1309-37-1 | Rouge, total inhalable                                          | -   | 10    |           | TWA (8 h)     | WEL    |
| -         | Silica, amorphous, inhalable dust                               | -   | 6     |           | TWA (8 h)     | WEL    |
| -         | Silica, amorphous, respirable dust                              | -   | 2.4   |           | TWA (8 h)     | WEL    |

## **DNEL/DMEL** values

| CAS No      | Substance                                     |                                  |                  |                        |
|-------------|-----------------------------------------------|----------------------------------|------------------|------------------------|
| DNEL type   |                                               | Exposure route                   | Effect           | Value                  |
| 112-02-7    | Cetrimonium chloride                          |                                  |                  |                        |
| Worker DNEI | L, long-term                                  | inhalation                       | systemic         | 3,32 mg/m <sup>3</sup> |
| Worker DNEI | L, long-term                                  | dermal                           | systemic         | 4,7 mg/kg bw/day       |
| Consumer DI | NEL, long-term                                | inhalation                       | systemic         | 0,98 mg/m³             |
| Consumer DI | NEL, long-term                                | dermal                           | systemic         | 2,83 mg/kg<br>bw/day   |
| Consumer DI | NEL, long-term                                | oral                             | systemic         | 2,83 mg/kg<br>bw/day   |
| 2634-33-5   | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothia | zolin-3-one                      |                  |                        |
| Worker DNEI | L, long-term                                  | inhalation                       | systemic         | 6,81 mg/m³             |
| Worker DNEI | L, long-term                                  | dermal                           | systemic         | 0,966 mg/kg<br>bw/day  |
| Consumer DI | NEL, long-term                                | inhalation                       | systemic         | 1,2 mg/m <sup>3</sup>  |
| Consumer DI | NEL, long-term                                | dermal                           | systemic         | 0,345 mg/kg<br>bw/day  |
| 55965-84-9  | reaction mass of 5-chloro-2-methyl-2H-isothia | zol-3-one and 2-methyl-2H-isothi | azol-3-one (3:1) |                        |
| Worker DNEI | L, long-term                                  | inhalation                       | local            | 0,02 mg/m³             |
| Worker DNEI | L, acute                                      | inhalation                       | local            | 0,04 mg/m³             |
| Consumer DI | NEL, long-term                                | inhalation                       | local            | 0,02 mg/m³             |
| Consumer DI | NEL, acute                                    | inhalation                       | local            | 0,04 mg/m³             |
| Consumer DI | NEL, long-term                                | oral                             | systemic         | 0,11 mg/kg<br>bw/day   |
| Consumer DI | NEL, acute                                    | oral                             | systemic         | 0,09 mg/kg<br>bw/day   |

according to UK REACH Regulation

replaces vers.frm:8.04.2021 Revision date: 06.04.2022

MIXOL® Nr. 24 Oxyd-Steingrau Product code: PES103

Page 5 of 11

#### **PNEC** values

| CAS No        | Substance                                                                        |               |
|---------------|----------------------------------------------------------------------------------|---------------|
| Environmenta  | al compartment                                                                   | Value         |
| 112-02-7      | Cetrimonium chloride                                                             |               |
| Freshwater    |                                                                                  | 0,00063 mg/l  |
| Freshwater (i | ntermittent releases)                                                            | 0,0008 mg/l   |
| Marine water  |                                                                                  | 0,000068 mg/l |
| Freshwater se | ediment                                                                          | 9,27 mg/kg    |
| Marine sedim  | nent                                                                             | 0,927 mg/kg   |
| Micro-organis | sms in sewage treatment plants (STP)                                             | 0,4 mg/l      |
| Soil          |                                                                                  | 7 mg/kg       |
| 2634-33-5     | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                         |               |
| Freshwater    |                                                                                  | 0,00403 mg/l  |
| Freshwater (i | ntermittent releases)                                                            | 0,0011 mg/l   |
| Marine water  |                                                                                  | 0,000403 mg/l |
| Marine water  | (intermittent releases)                                                          | 0,0011 mg/l   |
| Freshwater se | ediment                                                                          | 0,0499 mg/kg  |
| Marine sedim  | nent                                                                             | 0,00499 mg/kg |
| Micro-organis | sms in sewage treatment plants (STP)                                             | 1,03 mg/l     |
| Soil          |                                                                                  | 3 mg/kg       |
| 55965-84-9    | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazo | I-3-one (3:1) |
| Freshwater    |                                                                                  | 0,00339 mg/l  |
| Freshwater (i | ntermittent releases)                                                            | 0,00339 mg/l  |
| Marine water  |                                                                                  | 0,00339 mg/l  |
| Marine water  | (intermittent releases)                                                          | 0,00339 mg/l  |
| Freshwater se | ediment                                                                          | 0,027 mg/kg   |
| Marine sedim  | ent                                                                              | 0,027 mg/kg   |
| Micro-organis | sms in sewage treatment plants (STP)                                             | 0,23 mg/l     |
| Soil          |                                                                                  | 0,01 mg/kg    |

## 8.2. Exposure controls





## Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

#### Protective and hygiene measures

Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work. Draw up and observe skin protection programme. Use protective skin cream before handling the product. When using do not eat, drink, smoke, sniff.

#### Eye/face protection

Wear eye/face protection.

### Hand protection

Wear protective gloves.

according to UK REACH Regulation

replaces vers.frm: 8.04.2021

MIXOL® Nr. 24 Oxyd-Steingrau

Revision date: 06.04.2022

Product code: PES103

Page 6 of 11

Suitable material: NBR (Nitrile rubber)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties of the material must be taken into consideration.

#### Skin protection

Use of protective clothing.

## **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

#### Environmental exposure controls

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

| Physical state:                                           | Liquid (Dispersion) |                       |
|-----------------------------------------------------------|---------------------|-----------------------|
| Colour:                                                   | grey                |                       |
| Odour:                                                    | odourless           |                       |
| pH-Value:                                                 |                     | not determined        |
| Changes in the physical state                             |                     |                       |
| Melting point/freezing point:                             |                     | not determined        |
| Boiling point or initial boiling point and boiling range: |                     | 100 °C                |
| Flash point:                                              |                     | > 100 °C              |
| Flammability                                              |                     |                       |
| Solid:                                                    |                     | not applicable        |
| Gas:                                                      |                     | not applicable        |
| Lower explosion limits:                                   |                     | not determined        |
| Upper explosion limits:                                   |                     | not determined        |
| Auto-ignition temperature:                                |                     | not determined        |
| Decomposition temperature:                                |                     | > 100 °C              |
| Vapour pressure:                                          |                     | not determined        |
| Density (at 20 °C):                                       |                     | 2,0 g/cm <sup>3</sup> |
| Water solubility:                                         |                     | miscible              |
| Solubility in other solvents<br>not determined            |                     |                       |
| Partition coefficient n-octanol/water:                    |                     | not determined        |
| Viscosity / kinematic:                                    |                     | not determined        |
| Relative vapour density:                                  |                     | not determined        |
| 9.2. Other information                                    |                     |                       |
| No information available.                                 |                     |                       |

#### **SECTION 10: Stability and reactivity**

according to UK REACH Regulation

replaces vers.frm:8.04.2021

Revision date: 06.04.2022

MIXOL® Nr. 24 Oxyd-Steingrau Product code: PES103

Page 7 of 11

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

## 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 10.5. Incompatible materials

No information available.

## 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met. ATEmix calculated: oral: > 2000 mg/kg dermal: > 2000 mg/kg Inhalation (vapour): >20 mg/L (4 h) Inhalation (dust/mist): > 5 mg/L (4h)

| CAS No     | Chemical name                 |                |                |                       |                         |                |
|------------|-------------------------------|----------------|----------------|-----------------------|-------------------------|----------------|
|            | Exposure route                | Dose           |                | Species               | Source                  | Method         |
| 112-02-7   | Cetrimonium chloride          |                |                |                       |                         |                |
|            | oral                          | LD50<br>mg/kg  | 699            | Rat                   | Manufacturer            |                |
|            | dermal                        | LD50<br>mg/kg  | 528            | Rabbit                | Manufacturer            |                |
| 2634-33-5  | 1,2-benzisothiazol-3(2        | 2H)-one; 1,2-b | enzisothiazoli | n-3-one               |                         |                |
|            | oral                          | LD50<br>mg/kg  | 670 - 784      | Rat                   | Manufacturer            | OECD 401       |
|            | dermal                        | LD50<br>mg/kg  | > 2000         | Rat                   | Manufacturer            |                |
|            | inhalation vapour             | ATE            | 0,5 mg/l       |                       |                         |                |
|            | inhalation (4 h)<br>dust/mist | LC50           | 0,5 mg/l       | Rat                   | Manufacturer            | OPPTS 870.1300 |
| 55965-84-9 | reaction mass of 5-ch         | loro-2-methyl- | 2H-isothiazol- | 3-one and 2-methyl-2H | -isothiazol-3-one (3:1) |                |
|            | oral                          | LD50           | 64 mg/kg       | Rat                   | Manufacturer            |                |
|            | dermal                        | LD50<br>mg/kg  | 92,4           | Rabbit                | Manufacturer            |                |
|            | inhalation vapour             | ATE            | 0,5 mg/l       |                       |                         |                |
|            | inhalation (4 h)<br>dust/mist | LC50<br>mg/l   | 0,171          | Rat                   | Manufacturer            |                |

Irritation and corrosivity

according to UK REACH Regulation

| replaces vers.frm: 8.04.2021 |
|------------------------------|
| Revision date: 06.04.2022    |

MIXOL® Nr. 24 Oxyd-Steingrau Product code: PES103

Page 8 of 11

Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Result / Evaluation: non-irritant. (Rabbit)

Method: OECD 404

Test was carried out with a similar formulation. (By analogy.)

Serious eye damage/eye irritation: Result / Evaluation: non-irritant. (Rabbit) Method: OECD 405 Test was carried out with a similar formulation. (By analogy.)

Sensitising effects

# Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of

5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

## Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

## STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

### **SECTION 12: Ecological information**

## 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

| CAS No     | Chemical name              |                |                |           |                                        |              |          |
|------------|----------------------------|----------------|----------------|-----------|----------------------------------------|--------------|----------|
|            | Aquatic toxicity           | Dose           |                | [h]   [d] | Species                                | Source       | Method   |
| 112-02-7   | Cetrimonium chloride       |                |                |           | _                                      |              |          |
|            | Acute algae toxicity       | ErC50<br>mg/l  | 0,08           | 72 h      | Pseudokirchneriella<br>subcapitata     | Manufacturer | OECD 201 |
|            | Acute crustacea toxicity   | EC50<br>mg/l   | 0,09           | 48 h      | Daphnia magna (Big<br>water flea)      | Manufacturer | OECD 202 |
|            | Crustacea toxicity         | NOEC<br>mg/l   | 0,0068         |           | Daphnia magna (Big<br>water flea)      | Manufacturer | OECD 211 |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-  | one; 1,2-ber   | nzisothiazolin | -3-one    | -                                      |              |          |
|            | Acute algae toxicity       | ErC50<br>mg/l  | 0,155          | 72 h      | Selenastrum<br>capricornutum           | Manufacturer | OECD 201 |
|            | Fish toxicity              | NOEC<br>mg/l   | 0,21           | 28 d      | Oncorhynchus mykiss<br>(Rainbow trout) | Manufacturer | OECD 215 |
|            | Acute bacteria toxicity    | (EC50          | 23 mg/l)       | 3 h       | Activated sludge                       | Manufacturer | OECD 209 |
| 55965-84-9 | reaction mass of 5-chloro- | -2-methyl-2H   | l-isothiazol-3 | 3-one and | d 2-methyl-2H-isothiazol-              | 3-one (3:1)  |          |
|            | Acute bacteria toxicity    | (EC50<br>mg/l) | 7,92           | 3 h       | Activated sludge                       | Manufacturer | OECD 209 |

## 12.2. Persistence and degradability

The product has not been tested.

according to UK REACH Regulation

| cpidees vei           | s.frm:8.04.2021                                                                 | MIXOL® Nr. 24 Oxyd-Steingrau          |    |                 |
|-----------------------|---------------------------------------------------------------------------------|---------------------------------------|----|-----------------|
| Revision dat          | e: 06.04.2022                                                                   | Product code: PES103                  |    | Page 9          |
| CAS No                | Chemical name                                                                   |                                       |    |                 |
|                       | Method                                                                          | Value                                 | d  | Source          |
|                       | Evaluation                                                                      |                                       | -  |                 |
| 12-02-7               | Cetrimonium chloride                                                            |                                       |    |                 |
|                       | OECD 301B                                                                       | 93,5 %                                | 28 | Manufacturer    |
|                       |                                                                                 |                                       |    |                 |
|                       | Readily biodegradable                                                           | (according to OECD criteria).         |    |                 |
| 2.3. Bioacc           | Readily biodegradable                                                           | (according to OECD criteria).         |    |                 |
|                       | , ,                                                                             | , , , , , , , , , , , , , , , , , , , |    |                 |
| The p                 | umulative potential                                                             | ed.                                   |    |                 |
| The p<br>Partition co | sumulative potential<br>product has not been teste                              | ed.                                   |    | Log Pow         |
| The p                 | sumulative potential<br>product has not been teste<br>efficient n-octanol/water | ed.                                   |    | Log Pow<br>3,08 |

| CAS No     | Chemical name                                                                                       | BCF  | Species                           | Source       |
|------------|-----------------------------------------------------------------------------------------------------|------|-----------------------------------|--------------|
| 112-02-7   | Cetrimonium chloride                                                                                | 70,8 |                                   | Manufacturer |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one;<br>1,2-benzisothiazolin-3-one                                         | 6,62 | Lepomis macrochirus<br>(Bluegill) | Manufacturer |
| 55965-84-9 | reaction mass of<br>5-chloro-2-methyl-2H-isothiazol-3-one<br>and 2-methyl-2H-isothiazol-3-one (3:1) | 3,6  |                                   | Manufacturer |

## 12.4. Mobility in soil

The product has not been tested.

## 12.6. Other adverse effects

No information available.

#### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

## Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

### Land transport (ADR/RID)

| <u>14.1. UN number:</u>           | No dangerous good in sense of this transport regulation. |
|-----------------------------------|----------------------------------------------------------|
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |

#### Inland waterways transport (ADN)

according to UK REACH Regulation

|                                                                                                                                                                                                                                                                                                       | MIXOL® Nr. 24 Oxyd-Steingrau                                                                                                                                              |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Revision date: 06.04.2022                                                                                                                                                                                                                                                                             | Product code: PES103 Pag                                                                                                                                                  | ge 10 of 1 |
| <u>14.1. UN number:</u>                                                                                                                                                                                                                                                                               | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.2. UN proper shipping name:                                                                                                                                                                                                                                                                        | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.3. Transport hazard class(es):                                                                                                                                                                                                                                                                     | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.4. Packing group:                                                                                                                                                                                                                                                                                  | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| Marine transport (IMDG)                                                                                                                                                                                                                                                                               |                                                                                                                                                                           |            |
| <u>14.1. UN number:</u>                                                                                                                                                                                                                                                                               | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.2. UN proper shipping name:                                                                                                                                                                                                                                                                        | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.3. Transport hazard class(es):                                                                                                                                                                                                                                                                     | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.4. Packing group:                                                                                                                                                                                                                                                                                  | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| Air transport (ICAO-TI/IATA-DGR)                                                                                                                                                                                                                                                                      |                                                                                                                                                                           |            |
| <u>14.1. UN number:</u>                                                                                                                                                                                                                                                                               | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.2. UN proper shipping name:                                                                                                                                                                                                                                                                        | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.3. Transport hazard class(es):                                                                                                                                                                                                                                                                     | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.4. Packing group:                                                                                                                                                                                                                                                                                  | No dangerous good in sense of this transport regulation.                                                                                                                  |            |
| 14.5. Environmental hazards                                                                                                                                                                                                                                                                           |                                                                                                                                                                           |            |
| ENVIRONMENTALLY HAZARDOUS:                                                                                                                                                                                                                                                                            | No                                                                                                                                                                        |            |
| <b>14.6. Special precautions for user</b><br>No information available.                                                                                                                                                                                                                                |                                                                                                                                                                           |            |
| 14.7. Transport in bulk according to Annex I<br>not applicable                                                                                                                                                                                                                                        | I of Marpol and the IBC Code                                                                                                                                              |            |
| SECTION 15: Regulatory information                                                                                                                                                                                                                                                                    |                                                                                                                                                                           |            |
|                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                           |            |
| 15.1. Safety, health and environmental regul                                                                                                                                                                                                                                                          | ations/legislation specific for the substance or mixture                                                                                                                  |            |
| 15.1. Safety, health and environmental regul<br>EU regulatory information                                                                                                                                                                                                                             | ations/legislation specific for the substance or mixture                                                                                                                  |            |
| EU regulatory information<br>Restrictions on use (REACH, annex XVII):                                                                                                                                                                                                                                 | ations/legislation specific for the substance or mixture                                                                                                                  |            |
| EU regulatory information                                                                                                                                                                                                                                                                             | ations/legislation specific for the substance or mixture                                                                                                                  |            |
| <b>EU regulatory information</b><br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):                                                                                                                                                                                | < 16 %                                                                                                                                                                    |            |
| <b>EU regulatory information</b><br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75                                                                                                                                                                                                     |                                                                                                                                                                           |            |
| EU regulatory information<br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU                                                                                                                                                | < 16 %                                                                                                                                                                    |            |
| EU regulatory information<br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU<br>(SEVESO III):<br>National regulatory information<br>Employment restrictions:                                                                | < 16 %                                                                                                                                                                    |            |
| EU regulatory information<br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU<br>(SEVESO III):<br>National regulatory information                                                                                            | < 16 %<br>Not subject to 2012/18/EU (SEVESO III)<br>Observe restrictions to employment for juveniles according to the 'juvenile                                           |            |
| EU regulatory information<br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU<br>(SEVESO III):<br>National regulatory information<br>Employment restrictions:<br>Water hazard class (D):                                     | < 16 %<br>Not subject to 2012/18/EU (SEVESO III)<br>Observe restrictions to employment for juveniles according to the 'juvenile<br>work protection guideline' (94/33/EC). |            |
| EU regulatory information<br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU<br>(SEVESO III):<br>National regulatory information<br>Employment restrictions:<br>Water hazard class (D):<br>15.2. Chemical safety assessment | < 16 %<br>Not subject to 2012/18/EU (SEVESO III)<br>Observe restrictions to employment for juveniles according to the 'juvenile<br>work protection guideline' (94/33/EC). |            |

CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate

according to UK REACH Regulation

replaces vers.frm: 8.04.2021 MIXOL® Nr. 24 Oxyd-Steingrau Product code: PES103 Revision date: 06.04.2022 Page 11 of 11 LC50: Lethal concentration, 50% LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: verv persistent, verv bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) IMDG: International Maritime Code for Dangerous Goods EmS: Emergency Schedules MFAG: Medical First Aid Guide IATA: International Air Transport Association ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Aquatic Chronic 3; H412 | Calculation method       |

#### Relevant H and EUH statements (number and full text)

|        | on statements (number and run text)                                                                                                                                                                  |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H301   | Toxic if swallowed.                                                                                                                                                                                  |
| H302   | Harmful if swallowed.                                                                                                                                                                                |
| H310   | Fatal in contact with skin.                                                                                                                                                                          |
| H311   | Toxic in contact with skin.                                                                                                                                                                          |
| H314   | Causes severe skin burns and eye damage.                                                                                                                                                             |
| H315   | Causes skin irritation.                                                                                                                                                                              |
| H317   | May cause an allergic skin reaction.                                                                                                                                                                 |
| H318   | Causes serious eye damage.                                                                                                                                                                           |
| H330   | Fatal if inhaled.                                                                                                                                                                                    |
| H400   | Very toxic to aquatic life.                                                                                                                                                                          |
| H410   | Very toxic to aquatic life with long lasting effects.                                                                                                                                                |
| H411   | Toxic to aquatic life with long lasting effects.                                                                                                                                                     |
| H412   | Harmful to aquatic life with long lasting effects.                                                                                                                                                   |
| EUH071 | Corrosive to the respiratory tract.                                                                                                                                                                  |
| EUH208 | Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5 -chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction. |

#### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

according to UK REACH Regulation

#### replaces vers.frm: 8.04.2021 **MIXOL® Nr. 29 Oxyd-Brillant-Schwarz** Revision date: 22.04.2022 Product code: PES82 Page 1 of 11 SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier MIXOL® Nr. 29 Oxyd-Brillant-Schwarz 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture Colour, Pigment 1.3. Details of the supplier of the safety data sheet MIXOL-PRODUKTE Diebold GmbH Company name: Street: Carl-Zeiss-Str. 17-19 D-73230 Kirchheim/Teck Place: Telephone: +49/(0)7021 / 950090 Telefax: +49/(0)7021 / 56030 e-mail: Technik@mixol.de e-mail (Contact person): Internet: Responsible Department: Technik 1.4. Emergency telephone Emergency CONTACT (24 h) GBK GmbH +49/(0)6132 / 84463 number: **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture **GB CLP Regulation** Aquatic Chronic 3; H412 Full text of hazard statements: see SECTION 16. 2.2. Label elements **GB CLP Regulation** Hazard statements H412 Harmful to aquatic life with long lasting effects. **Precautionary statements** P273 Avoid release to the environment. P501 Dispose of waste according to applicable legislation. Special labelling of certain mixtures EUH208 Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5 -chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction. 2.3. Other hazards The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

according to UK REACH Regulation

replaces vers.frm: 8.04.2021 Revision date: 22.04.2022

MIXOL® Nr. 29 Oxyd-Brillant-Schwarz Product code: PES82

Page 2 of 11

#### Hazardous components

| CAS No     | Chemical name                                                             |                                      |                          | Quantity   |
|------------|---------------------------------------------------------------------------|--------------------------------------|--------------------------|------------|
|            | EC No                                                                     | Index No                             | REACH No                 |            |
|            | GHS Classification                                                        | •                                    |                          |            |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd.,                                         | ethoxylated                          |                          | 5 - < 10 % |
|            | 500-236-9                                                                 |                                      |                          |            |
|            | Skin Irrit. 2, Aquatic Acute 1, Aquat                                     | ic Chronic 3; H315 H400 H412         |                          |            |
| 112-02-7   | Cetrimonium chloride                                                      |                                      |                          | < 1 %      |
|            | 203-928-6                                                                 |                                      |                          |            |
|            | Acute Tox. 3, Acute Tox. 4, Skin Co<br>H302 H314 H318 H400 H410           | , Aquatic Chronic 1; H311            |                          |            |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-b                                       |                                      | < 0.1 %                  |            |
|            | 220-120-9                                                                 | 613-088-00-6                         | 01-2120761540-60         |            |
|            | Acute Tox. 2, Acute Tox. 4, Skin Irr<br>Chronic 2; H330 H302 H315 H318    | atic Acute 1, Aquatic                |                          |            |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-                                       | -2H-isothiazol-3-one and 2-methyl-2F | 1-isothiazol-3-one (3:1) | < 0.1 %    |
|            | -                                                                         | 613-167-00-5                         | 01-2120764691-48         |            |
|            | Acute Tox. 2, Acute Tox. 2, Acute T<br>Acute 1, Aquatic Chronic 1; H330 H |                                      |                          |            |

Full text of H and EUH statements: see section 16.

#### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### **General information**

When in doubt or if symptoms are observed, get medical advice.

#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical advice/attention.

### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

#### After ingestion

Observe risk of aspiration if vomiting occurs. @0405.B004145 Get medical advice/attention.

## 4.2. Most important symptoms and effects, both acute and delayed

No information available.

## 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Water spray jet, Extinguishing powder, Carbon dioxide (CO2), alcohol resistant foam.

according to UK REACH Regulation

## MIXOL® Nr. 29 Oxyd-Brillant-Schwarz

replaces vers.frm:8.04.2021 Revision date: 22.04.2022

Product code: PES82

Page 3 of 11

### Unsuitable extinguishing media

Full water jet

## 5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

## 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### 6.3. Methods and material for containment and cleaning up

Clean contaminated articles and floor according to the environmental legislation.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray. Use personal protection equipment.

#### Advice on protection against fire and explosion

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

#### Further information on handling

Handle and open container with care.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

No information available.

#### Further information on storage conditions

storage stability: >= 36 month(s)

#### 7.3. Specific end use(s)

Colour, Pigment

#### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

according to UK REACH Regulation

replaces vers.frm:8.04.2021 Revision date: 22.04.2022

MIXOL® Nr. 29 Oxyd-Brillant-Schwarz Product code: PES82

Page 4 of 11

## Exposure limits (EH40)

| CAS No | Substance                                                       | ppm | mg/m³ | fibres/ml | Category  | Origin |
|--------|-----------------------------------------------------------------|-----|-------|-----------|-----------|--------|
| -      | Manganese: its inorganic compounds (as Mn, inhalable fraction)  | -   | 0.2   |           | TWA (8 h) | WEL    |
| -      | Manganese: its inorganic compounds (as Mn, respirable fraction) | -   | 0.05  |           | TWA (8 h) | WEL    |

## **DNEL/DMEL** values

| CAS No                   | Substance                                                 |                        |                | _                      |
|--------------------------|-----------------------------------------------------------|------------------------|----------------|------------------------|
| DNEL type                |                                                           | Exposure route         | Effect         | Value                  |
| 112-02-7                 | Cetrimonium chloride                                      |                        |                |                        |
| Worker DNEL              | , long-term                                               | inhalation             | systemic       | 3,32 mg/m <sup>3</sup> |
| Worker DNEL              | ., long-term                                              | dermal                 | systemic       | 4,7 mg/kg bw/day       |
| Consumer DN              | NEL, long-term                                            | inhalation             | systemic       | 0,98 mg/m³             |
| Consumer DN              | NEL, long-term                                            | dermal                 | systemic       | 2,83 mg/kg<br>bw/day   |
| Consumer DN              | NEL, long-term                                            | oral                   | systemic       | 2,83 mg/kg<br>bw/day   |
| 2634-33-5                | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one  |                        |                |                        |
| Worker DNEL              | , long-term                                               | inhalation             | systemic       | 6,81 mg/m³             |
| Worker DNEL              | ., long-term                                              | dermal                 | systemic       | 0,966 mg/kg<br>bw/day  |
| Consumer DN              | IEL, long-term                                            | inhalation             | systemic       | 1,2 mg/m <sup>3</sup>  |
| Consumer DN              | IEL, long-term                                            | dermal                 | systemic       | 0,345 mg/kg<br>bw/day  |
| 55965-84-9               | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one an | d 2-methyl-2H-isothiaz | ol-3-one (3:1) |                        |
| Worker DNEL              | , long-term                                               | inhalation             | local          | 0,02 mg/m³             |
| Worker DNEL              | ., acute                                                  | inhalation             | local          | 0,04 mg/m <sup>3</sup> |
| Consumer DN              | IEL, long-term                                            | inhalation             | local          | 0,02 mg/m³             |
| Consumer DNEL, acute     |                                                           | inhalation             | local          | 0,04 mg/m³             |
| Consumer DNEL, long-term |                                                           | oral                   | systemic       | 0,11 mg/kg<br>bw/day   |
| Consumer DN              | IEL, acute                                                | oral                   | systemic       | 0,09 mg/kg<br>bw/day   |

according to UK REACH Regulation

replaces vers.frm:8.04.2021 Revision date: 22.04.2022

MIXOL® Nr. 29 Oxyd-Brillant-Schwarz Product code: PES82

Page 5 of 11

#### **PNEC** values

| CAS No        | Substance                                                                        |                |
|---------------|----------------------------------------------------------------------------------|----------------|
| Environment   | al compartment                                                                   | Value          |
| 112-02-7      | Cetrimonium chloride                                                             |                |
| Freshwater    |                                                                                  | 0,00063 mg/l   |
| Freshwater (i | intermittent releases)                                                           | 0,0008 mg/l    |
| Marine water  |                                                                                  | 0,000068 mg/l  |
| Freshwater s  | ediment                                                                          | 9,27 mg/kg     |
| Marine sedim  | nent                                                                             | 0,927 mg/kg    |
| Micro-organis | sms in sewage treatment plants (STP)                                             | 0,4 mg/l       |
| Soil          |                                                                                  | 7 mg/kg        |
| 2634-33-5     | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                         |                |
| Freshwater    |                                                                                  | 0,00403 mg/l   |
| Freshwater (i | intermittent releases)                                                           | 0,0011 mg/l    |
| Marine water  |                                                                                  | 0,000403 mg/l  |
| Marine water  | (intermittent releases)                                                          | 0,0011 mg/l    |
| Freshwater s  | ediment                                                                          | 0,0499 mg/kg   |
| Marine sedim  | nent                                                                             | 0,00499 mg/kg  |
| Micro-organis | sms in sewage treatment plants (STP)                                             | 1,03 mg/l      |
| Soil          |                                                                                  | 3 mg/kg        |
| 55965-84-9    | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazo | bl-3-one (3:1) |
| Freshwater    |                                                                                  | 0,00339 mg/l   |
| Freshwater (i | intermittent releases)                                                           | 0,00339 mg/l   |
| Marine water  | · · · · · · · · · · · · · · · · · · ·                                            | 0,00339 mg/l   |
| Marine water  | 0,00339 mg/l                                                                     |                |
| Freshwater s  | 0,027 mg/kg                                                                      |                |
| Marine sedim  | 0,027 mg/kg                                                                      |                |
| Micro-organis | sms in sewage treatment plants (STP)                                             | 0,23 mg/l      |
| Soil          |                                                                                  | 0,01 mg/kg     |

## 8.2. Exposure controls





## Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

#### Protective and hygiene measures

Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work. Draw up and observe skin protection programme. Use protective skin cream before handling the product. When using do not eat, drink, smoke, sniff.

#### Eye/face protection

Wear eye/face protection.

### Hand protection

Wear protective gloves.

according to UK REACH Regulation

replaces vers.frm: 8.04.2021

MIXOL® Nr. 29 Oxyd-Brillant-Schwarz

Page 6 of 11

Revision date: 22.04.2022

Product code: PES82

Suitable material: NBR (Nitrile rubber)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties of the material must be taken into consideration.

### Skin protection

Use of protective clothing.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

| Physical state:                                           | Liquid (Dispersion) |                        |
|-----------------------------------------------------------|---------------------|------------------------|
| Colour:                                                   | black               |                        |
| Odour:                                                    | odourless           |                        |
| pH-Value:                                                 |                     | not determined         |
| Changes in the physical state                             |                     |                        |
| Melting point/freezing point:                             |                     | not determined         |
| Boiling point or initial boiling point and boiling range: |                     | 100 °C                 |
| Flash point:                                              |                     | > 100 °C               |
| Flammability                                              |                     |                        |
| Solid:                                                    |                     | not applicable         |
| Gas:                                                      |                     | not applicable         |
| Lower explosion limits:                                   |                     | not determined         |
| Upper explosion limits:                                   |                     | not determined         |
| Auto-ignition temperature:                                |                     | not determined         |
| Decomposition temperature:                                |                     | > 100 °C               |
| Vapour pressure:                                          |                     | not determined         |
| Density (at 20 °C):                                       |                     | 2,36 g/cm <sup>3</sup> |
| Water solubility:                                         |                     | miscible               |
| Solubility in other solvents<br>not determined            |                     |                        |
| Partition coefficient n-octanol/water:                    |                     | not determined         |
| Viscosity / kinematic:                                    |                     | not determined         |
| Relative vapour density:                                  |                     | not determined         |
| 9.2. Other information                                    |                     |                        |
| No information available.                                 |                     |                        |

### **SECTION 10: Stability and reactivity**

according to UK REACH Regulation

## MIXOL® Nr. 29 Oxyd-Brillant-Schwarz

replaces vers.frm:8.04.2021 Revision date: 22.04.2022

Product code: PES82

Page 7 of 11

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

## 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 10.5. Incompatible materials

No information available.

## 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met. ATEmix calculated: oral: > 2000 mg/kg dermal: > 2000 mg/kg Inhalation (vapour): >20 mg/L (4 h) Inhalation (dust/mist): > 5 mg/L (4h)

| CAS No     | Chemical name                                                                                 |               |           |         |              |                |  |  |
|------------|-----------------------------------------------------------------------------------------------|---------------|-----------|---------|--------------|----------------|--|--|
|            | Exposure route                                                                                | Dose          |           | Species | Source       | Method         |  |  |
| 112-02-7   | Cetrimonium chloride                                                                          |               |           |         |              |                |  |  |
|            | oral                                                                                          | LD50<br>mg/kg | 699       | Rat     | Manufacturer |                |  |  |
|            | dermal                                                                                        | LD50<br>mg/kg | 528       | Rabbit  | Manufacturer |                |  |  |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                                      |               |           |         |              |                |  |  |
|            | oral                                                                                          | LD50<br>mg/kg | 670 - 784 | Rat     | Manufacturer | OECD 401       |  |  |
|            | dermal                                                                                        | LD50<br>mg/kg | > 2000    | Rat     | Manufacturer |                |  |  |
|            | inhalation vapour                                                                             | ATE           | 0,5 mg/l  |         |              |                |  |  |
|            | inhalation (4 h)<br>dust/mist                                                                 | LC50          | 0,5 mg/l  | Rat     | Manufacturer | OPPTS 870.1300 |  |  |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |               |           |         |              |                |  |  |
|            | oral                                                                                          | LD50          | 64 mg/kg  | Rat     | Manufacturer |                |  |  |
|            | dermal                                                                                        | LD50<br>mg/kg | 92,4      | Rabbit  | Manufacturer |                |  |  |
|            | inhalation vapour                                                                             | ATE           | 0,5 mg/l  |         |              |                |  |  |
|            | inhalation (4 h)<br>dust/mist                                                                 | LC50<br>mg/l  | 0,171     | Rat     | Manufacturer |                |  |  |

Irritation and corrosivity

according to UK REACH Regulation

## replaces vers.frm: 8.04.2021

Revision date: 22.04.2022

MIXOL® Nr. 29 Oxyd-Brillant-Schwarz Product code: PES82

Page 8 of 11

Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Result / Evaluation: non-irritant. (Rabbit)

Method: OECD 404

Test was carried out with a similar formulation. (By analogy.)

Serious eye damage/eye irritation:

Result / Evaluation: non-irritant. (Rabbit)

Method: OECD 405 Test was carried out with a similar formulation. (By analogy.)

#### Sensitising effects

Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

## Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

## STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

| CAS No     | Chemical name                                              |                |                |           |                                        |              |          |
|------------|------------------------------------------------------------|----------------|----------------|-----------|----------------------------------------|--------------|----------|
|            | Aquatic toxicity                                           | Dose           |                | [h]   [d] | Species                                | Source       | Method   |
| 112-02-7   | Cetrimonium chloride                                       |                |                |           | -                                      |              |          |
|            | Acute algae toxicity                                       | ErC50<br>mg/l  | 0,08           | 72 h      | Pseudokirchneriella<br>subcapitata     | Manufacturer | OECD 201 |
|            | Acute crustacea toxicity                                   | EC50<br>mg/l   | 0,09           | 48 h      | Daphnia magna (Big<br>water flea)      | Manufacturer | OECD 202 |
|            | Crustacea toxicity                                         | NOEC<br>mg/l   | 0,0068         |           | Daphnia magna (Big<br>water flea)      | Manufacturer | OECD 211 |
| 2634-33-5  | 5 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one |                |                |           |                                        |              |          |
|            | Acute algae toxicity                                       | ErC50<br>mg/l  | 0,155          | 72 h      | Selenastrum<br>capricornutum           | Manufacturer | OECD 201 |
|            | Fish toxicity                                              | NOEC<br>mg/l   | 0,21           | 28 d      | Oncorhynchus mykiss<br>(Rainbow trout) | Manufacturer | OECD 215 |
|            | Acute bacteria toxicity                                    | (EC50          | 23 mg/l)       | 3 h       | Activated sludge                       | Manufacturer | OECD 209 |
| 55965-84-9 | reaction mass of 5-chloro-                                 | -2-methyl-2l   | H-isothiazol-3 | B-one and | d 2-methyl-2H-isothiazol-              | 3-one (3:1)  |          |
|            | Acute bacteria toxicity                                    | (EC50<br>mg/l) | 7,92           | 3 h       | Activated sludge                       | Manufacturer | OECD 209 |

#### 12.2. Persistence and degradability

The product has not been tested.

according to UK REACH Regulation

replaces vers.frm: 8.04.2021 **MIXOL® Nr. 29 Oxyd-Brillant-Schwarz** Revision date: 22.04.2022 Product code: PES82 Page 9 of 11 CAS No Chemical name Method Value d Source Evaluation 112-02-7 Cetrimonium chloride OECD 301B 93,5 % 28 Manufacturer Readily biodegradable (according to OECD criteria). 12.3. Bioaccumulative potential The product has not been tested. Partition coefficient n-octanol/water CAS No Chemical name ٦ Т 

| OAO NO     | one mane                                                                                      | LOGIOW       |
|------------|-----------------------------------------------------------------------------------------------|--------------|
| 112-02-7   | Cetrimonium chloride                                                                          | 3,08         |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | -0,71 - 0,75 |
|            |                                                                                               |              |

#### BCF

| CAS No     | Chemical name                                                                                       | BCF  | Species                           | Source       |
|------------|-----------------------------------------------------------------------------------------------------|------|-----------------------------------|--------------|
| 112-02-7   | Cetrimonium chloride                                                                                | 70,8 |                                   | Manufacturer |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one;<br>1,2-benzisothiazolin-3-one                                         | 6,62 | Lepomis macrochirus<br>(Bluegill) | Manufacturer |
| 55965-84-9 | reaction mass of<br>5-chloro-2-methyl-2H-isothiazol-3-one<br>and 2-methyl-2H-isothiazol-3-one (3:1) | 3,6  |                                   | Manufacturer |

## 12.4. Mobility in soil

The product has not been tested.

### 12.6. Other adverse effects

No information available.

#### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

## **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

## Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

### Land transport (ADR/RID)

| <u>14.1. UN number:</u>           | No dangerous good in sense of this transport regulation. |
|-----------------------------------|----------------------------------------------------------|
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |

#### Inland waterways transport (ADN)

according to UK REACH Regulation

| Revision date: 22.04.2022                                                                                                                                                                                                                                                                                                                                                       | Product code: PES82                                                                                                                                                     | Page 10 of 1 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 1 CVISION VALE. 22.04.2022                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                         | age 10 01 1  |
| <u>14.1. UN number:</u>                                                                                                                                                                                                                                                                                                                                                         | No dangerous good in sense of this transport regulation.                                                                                                                |              |
| 14.2. UN proper shipping name:                                                                                                                                                                                                                                                                                                                                                  | No dangerous good in sense of this transport regulation.                                                                                                                |              |
| 14.3. Transport hazard class(es):                                                                                                                                                                                                                                                                                                                                               | No dangerous good in sense of this transport regulation.                                                                                                                |              |
| 14.4. Packing group:                                                                                                                                                                                                                                                                                                                                                            | No dangerous good in sense of this transport regulation.                                                                                                                |              |
| Marine transport (IMDG)                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                         |              |
| <u>14.1. UN number:</u>                                                                                                                                                                                                                                                                                                                                                         | No dangerous good in sense of this transport regulation.                                                                                                                |              |
| 14.2. UN proper shipping name:                                                                                                                                                                                                                                                                                                                                                  | No dangerous good in sense of this transport regulation.                                                                                                                |              |
| 14.3. Transport hazard class(es):                                                                                                                                                                                                                                                                                                                                               | No dangerous good in sense of this transport regulation.                                                                                                                |              |
| 14.4. Packing group:                                                                                                                                                                                                                                                                                                                                                            | No dangerous good in sense of this transport regulation.                                                                                                                |              |
| Air transport (ICAO-TI/IATA-DGR)                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                         |              |
| <u>14.1. UN number:</u>                                                                                                                                                                                                                                                                                                                                                         | No dangerous good in sense of this transport regulation.                                                                                                                |              |
| 14.2. UN proper shipping name:                                                                                                                                                                                                                                                                                                                                                  | No dangerous good in sense of this transport regulation.                                                                                                                |              |
| 14.3. Transport hazard class(es):                                                                                                                                                                                                                                                                                                                                               | No dangerous good in sense of this transport regulation.                                                                                                                |              |
| 14.4. Packing group:                                                                                                                                                                                                                                                                                                                                                            | No dangerous good in sense of this transport regulation.                                                                                                                |              |
| 14.5. Environmental hazards                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                         |              |
| ENVIRONMENTALLY HAZARDOUS:                                                                                                                                                                                                                                                                                                                                                      | No                                                                                                                                                                      |              |
| 14.6. Special precautions for user                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                         |              |
| No information available.                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                         |              |
| 14.7. Transport in bulk according to Annex I                                                                                                                                                                                                                                                                                                                                    | l of Marpol and the IBC Code                                                                                                                                            |              |
| not applicable                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                         |              |
|                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                         |              |
|                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                         |              |
| SECTION 15: Regulatory information                                                                                                                                                                                                                                                                                                                                              | ations/legislation specific for the substance or mixture                                                                                                                |              |
| SECTION 15: Regulatory information<br>15.1. Safety, health and environmental regul                                                                                                                                                                                                                                                                                              | lations/legislation specific for the substance or mixture                                                                                                               |              |
| SECTION 15: Regulatory information<br>15.1. Safety, health and environmental regul<br>EU regulatory information                                                                                                                                                                                                                                                                 | ations/legislation specific for the substance or mixture                                                                                                                |              |
| SECTION 15: Regulatory information<br><u>15.1. Safety, health and environmental regulatory information</u><br>Restrictions on use (REACH, annex XVII):                                                                                                                                                                                                                          | lations/legislation specific for the substance or mixture                                                                                                               |              |
| SECTION 15: Regulatory information<br>15.1. Safety, health and environmental regul<br>EU regulatory information                                                                                                                                                                                                                                                                 | lations/legislation specific for the substance or mixture                                                                                                               |              |
| SECTION 15: Regulatory information<br>15.1. Safety, health and environmental regul<br>EU regulatory information<br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75                                                                                                                                                                                                |                                                                                                                                                                         |              |
| SECTION 15: Regulatory information<br>15.1. Safety, health and environmental regul<br>EU regulatory information<br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU                                                                                                                                    | < 1 %                                                                                                                                                                   |              |
| SECTION 15: Regulatory information<br>15.1. Safety, health and environmental regul<br>EU regulatory information<br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU<br>(SEVESO III):                                                                                                                   | < 1 %                                                                                                                                                                   | e            |
| SECTION 15: Regulatory information<br>15.1. Safety, health and environmental regul<br>EU regulatory information<br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU<br>(SEVESO III):<br>National regulatory information                                                                                | < 1 %<br>Not subject to 2012/18/EU (SEVESO III)<br>Observe restrictions to employment for juveniles according to the 'juvenil                                           | e            |
| SECTION 15: Regulatory information<br>15.1. Safety, health and environmental regulatory information<br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU<br>(SEVESO III):<br>National regulatory information<br>Employment restrictions:<br>Water hazard class (D):                                     | < 1 %<br>Not subject to 2012/18/EU (SEVESO III)<br>Observe restrictions to employment for juveniles according to the 'juvenil<br>work protection guideline' (94/33/EC). | e            |
| SECTION 15: Regulatory information<br>15.1. Safety, health and environmental regulatory information<br>Restrictions on use (REACH, annex XVII):<br>Entry 3, Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU<br>(SEVESO III):<br>National regulatory information<br>Employment restrictions:<br>Water hazard class (D):<br>15.2. Chemical safety assessment | < 1 %<br>Not subject to 2012/18/EU (SEVESO III)<br>Observe restrictions to employment for juveniles according to the 'juvenil<br>work protection guideline' (94/33/EC). | e            |

CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate

according to UK REACH Regulation

| replaces vers.frm: 8.04.2021 |
|------------------------------|
| Revision date: 22.04.2022    |

MIXOL® Nr. 29 Oxyd-Brillant-Schwarz Product code: PES82

Page 11 of 11

LC50: Lethal concentration, 50% LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: verv persistent, verv bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) IMDG: International Maritime Code for Dangerous Goods EmS: Emergency Schedules MFAG: Medical First Aid Guide IATA: International Air Transport Association ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Aquatic Chronic 3: H412 | Calculation method       |

#### Relevant H and EUH statements (number and full text)

| H301   | Toxic if swallowed.                                                                                                                                                                                        |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H302   | Harmful if swallowed.                                                                                                                                                                                      |
| H310   | Fatal in contact with skin.                                                                                                                                                                                |
| H311   | Toxic in contact with skin.                                                                                                                                                                                |
| H314   | Causes severe skin burns and eye damage.                                                                                                                                                                   |
| H315   | Causes skin irritation.                                                                                                                                                                                    |
| H317   | May cause an allergic skin reaction.                                                                                                                                                                       |
| H318   | Causes serious eye damage.                                                                                                                                                                                 |
| H330   | Fatal if inhaled.                                                                                                                                                                                          |
| H400   | Very toxic to aquatic life.                                                                                                                                                                                |
| H410   | Very toxic to aquatic life with long lasting effects.                                                                                                                                                      |
| H411   | Toxic to aquatic life with long lasting effects.                                                                                                                                                           |
| H412   | Harmful to aquatic life with long lasting effects.                                                                                                                                                         |
| EUH071 | Corrosive to the respiratory tract.                                                                                                                                                                        |
| EUH208 | Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5<br>-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce<br>an allergic reaction. |

#### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

|                                                                              | according to UK REACH Regulation                                                                                                                                                                                                                                   |              |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| replaces vers.frm:24.03.2021<br>Revision date: 22.04.2022                    | MIXOL® Nr. 30 Oxyd-Brillant-Gelb<br>Product code: PES80                                                                                                                                                                                                            | Page 1 of 11 |
| SECTION 1: Identification                                                    | of the substance/mixture and of the company/undertaking                                                                                                                                                                                                            |              |
| 1.1. Product identifier<br>MIXOL® Nr. 30 Oxyo                                | d-Brillant-Gelb                                                                                                                                                                                                                                                    |              |
| Product group:                                                               | Zwischenprodukt                                                                                                                                                                                                                                                    |              |
| 1.2. Relevant identified uses                                                | of the substance or mixture and uses advised against                                                                                                                                                                                                               |              |
| Use of the substance/mix<br>Colour, Pigment                                  | ture                                                                                                                                                                                                                                                               |              |
| 1.3. Details of the supplier of                                              |                                                                                                                                                                                                                                                                    |              |
| Company name:<br>Street:<br>Place:                                           | MIXOL-PRODUKTE Diebold GmbH<br>Carl-Zeiss-Str. 17-19<br>D-73230 Kirchheim/Teck                                                                                                                                                                                     |              |
| Telephone:                                                                   | +49/(0)7021 / 950090 Telefax: +49/(0)7021 / 56030                                                                                                                                                                                                                  |              |
| e-mail:<br>e-mail (Contact person):<br>Internet:                             | Technik@mixol.de                                                                                                                                                                                                                                                   |              |
| Responsible Department:<br><u>1.4. Emergency telephone</u><br><u>number:</u> | Technik<br>Emergency CONTACT (24 h) GBK GmbH +49/(0)6132 / 84463                                                                                                                                                                                                   |              |
| SECTION 2: Hazards ident                                                     | tification                                                                                                                                                                                                                                                         |              |
| 2.1. Classification of the sub                                               | stance or mixture                                                                                                                                                                                                                                                  |              |
| <b>GB CLP Regulation</b><br>This mixture is not clas                         | sified as hazardous in accordance with GB CLP Regulation.                                                                                                                                                                                                          |              |
| 2.2. Label elements                                                          |                                                                                                                                                                                                                                                                    |              |
| GB CLP Regulation                                                            |                                                                                                                                                                                                                                                                    |              |
|                                                                              | n mixtures<br>Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5<br>-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produc<br>an allergic reaction.<br>Safety data sheet available on request. | ce           |
| 2.3. Other hazards<br>The substances in the                                  | mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.                                                                                                                                                                                          |              |
| SECTION 3: Composition/                                                      | information on ingredients                                                                                                                                                                                                                                         |              |
| 3.2. Mixtures                                                                |                                                                                                                                                                                                                                                                    |              |

according to UK REACH Regulation

replaces vers.frm:24.03.2021 Revision date: 22.04.2022

MIXOL® Nr. 30 Oxyd-Brillant-Gelb Product code: PES80

Page 2 of 11

### Hazardous components

| CAS No     | Chemical name                                                           |                                                        | Quantity              |            |
|------------|-------------------------------------------------------------------------|--------------------------------------------------------|-----------------------|------------|
|            | EC No                                                                   | Index No                                               | REACH No              |            |
|            | GHS Classification                                                      | •                                                      | •                     |            |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd.                                        | ethoxylated                                            |                       | 5 - < 10 % |
|            | 500-236-9                                                               |                                                        |                       |            |
|            | Skin Irrit. 2, Aquatic Acute 1, Aquat                                   | ic Chronic 3; H315 H400 H412                           |                       |            |
| 14059-33-7 | Bismuth vanadium tetraoxide, parti                                      |                                                        | 5 - < 10 %            |            |
|            | 237-898-0                                                               |                                                        | 01-2119486965-17      |            |
|            | STOT RE 2; H373                                                         |                                                        |                       |            |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-l                                     |                                                        | < 0.1 %               |            |
|            | 220-120-9                                                               | 613-088-00-6                                           | 01-2120761540-60      |            |
|            | Acute Tox. 2, Acute Tox. 4, Skin Irr<br>Chronic 2; H330 H302 H315 H318  | it. 2, Eye Dam. 1, Skin Sens. 1, Aqu<br>H317 H400 H411 | atic Acute 1, Aquatic |            |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl                                      | H-isothiazol-3-one (3:1)                               | < 0.1 %               |            |
|            | -                                                                       | 613-167-00-5                                           | 01-2120764691-48      |            |
|            | Acute Tox. 2, Acute Tox. 2, Acute<br>Acute 1, Aquatic Chronic 1; H330 H | •                                                      |                       |            |

Full text of H and EUH statements: see section 16.

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice.

#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical advice/attention.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

#### After ingestion

Observe risk of aspiration if vomiting occurs. @0405.B004145 Get medical advice/attention.

## 4.2. Most important symptoms and effects, both acute and delayed

No information available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Water spray jet, Extinguishing powder, Carbon dioxide (CO2), alcohol resistant foam.

### Unsuitable extinguishing media

Full water jet

according to UK REACH Regulation

replaces vers.frm:24.03.2021 Revision date: 22.04.2022

MIXOL® Nr. 30 Oxyd-Brillant-Gelb Product code: PES80

Page 3 of 11

#### 5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### 6.3. Methods and material for containment and cleaning up

Clean contaminated articles and floor according to the environmental legislation.

## 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray. Use personal protection equipment.

### Advice on protection against fire and explosion

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

## Further information on handling

Handle and open container with care.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### Hints on joint storage

No information available.

## Further information on storage conditions

storage stability: >= 36 month(s)

## 7.3. Specific end use(s)

Colour, Pigment

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

according to UK REACH Regulation

replaces vers.frm:24.03.2021 Revision date: 22.04.2022

MIXOL® Nr. 30 Oxyd-Brillant-Gelb Product code: PES80

Page 4 of 11

## **DNEL/DMEL** values

| CAS No      | Substance                                                 |                                                   |               |                         |  |  |  |  |
|-------------|-----------------------------------------------------------|---------------------------------------------------|---------------|-------------------------|--|--|--|--|
| DNEL type   |                                                           | Exposure route                                    | Effect        | Value                   |  |  |  |  |
| 14059-33-7  | Bismuth vanadium tetraoxide, particle size <10 µm         | Bismuth vanadium tetraoxide, particle size <10 μm |               |                         |  |  |  |  |
| Worker DNEL | , long-term                                               | inhalation                                        | local         | 0,02 mg/m <sup>3</sup>  |  |  |  |  |
| Worker DNEL | , long-term                                               | inhalation                                        | systemic      | 6,81 mg/m³              |  |  |  |  |
| Consumer DN | IEL, long-term                                            | dermal                                            | systemic      | 0,966 mg/kg<br>bw/day   |  |  |  |  |
| Consumer DN | IEL, long-term                                            | inhalation                                        | local         | 0,005 mg/m <sup>3</sup> |  |  |  |  |
| Consumer DN | IEL, long-term                                            | oral                                              | systemic      | 20 mg/kg bw/day         |  |  |  |  |
| 2634-33-5   | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one  |                                                   |               |                         |  |  |  |  |
| Worker DNEL | , long-term                                               | inhalation                                        | systemic      | 6,81 mg/m³              |  |  |  |  |
| Worker DNEL | , long-term                                               | dermal                                            | systemic      | 0,966 mg/kg<br>bw/day   |  |  |  |  |
| Consumer DN | IEL, long-term                                            | inhalation                                        | systemic      | 1,2 mg/m <sup>3</sup>   |  |  |  |  |
| Consumer DN | IEL, long-term                                            | dermal                                            | systemic      | 0,345 mg/kg<br>bw/day   |  |  |  |  |
| 55965-84-9  | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one an | d 2-methyl-2H-isothiazo                           | l-3-one (3:1) |                         |  |  |  |  |
| Worker DNEL | , long-term                                               | inhalation                                        | local         | 0,02 mg/m³              |  |  |  |  |
| Worker DNEL | , acute                                                   | inhalation                                        | local         | 0,04 mg/m <sup>3</sup>  |  |  |  |  |
| Consumer DN | IEL, long-term                                            | inhalation                                        | local         | 0,02 mg/m³              |  |  |  |  |
| Consumer DN | Consumer DNEL, acute                                      |                                                   | local         | 0,04 mg/m <sup>3</sup>  |  |  |  |  |
| Consumer DN | Consumer DNEL, long-term                                  |                                                   | systemic      | 0,11 mg/kg<br>bw/day    |  |  |  |  |
| Consumer DN | EL, acute                                                 | oral                                              | systemic      | 0,09 mg/kg<br>bw/day    |  |  |  |  |

according to UK REACH Regulation

replaces vers.frm:24.03.2021 Revision date: 22.04.2022

MIXOL® Nr. 30 Oxyd-Brillant-Gelb Product code: PES80

Page 5 of 11

#### **PNEC** values

| CAS No        | Substance                                                                                     |               |
|---------------|-----------------------------------------------------------------------------------------------|---------------|
| Environmenta  | l compartment                                                                                 | Value         |
| 14059-33-7    | Bismuth vanadium tetraoxide, particle size <10 µm                                             |               |
| Micro-organis | ms in sewage treatment plants (STP)                                                           | 10000 mg/l    |
| 2634-33-5     | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                                      |               |
| Freshwater    |                                                                                               | 0,00403 mg/l  |
| Freshwater (i | ntermittent releases)                                                                         | 0,0011 mg/l   |
| Marine water  |                                                                                               | 0,000403 mg/l |
| Marine water  | (intermittent releases)                                                                       | 0,0011 mg/l   |
| Freshwater s  | ediment                                                                                       | 0,0499 mg/kg  |
| Marine sedim  | ent                                                                                           | 0,00499 mg/kg |
| Micro-organis | ms in sewage treatment plants (STP)                                                           | 1,03 mg/l     |
| Soil          |                                                                                               | 3 mg/kg       |
| 55965-84-9    | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |               |
| Freshwater    |                                                                                               | 0,00339 mg/l  |
| Freshwater (i | ntermittent releases)                                                                         | 0,00339 mg/l  |
| Marine water  |                                                                                               | 0,00339 mg/l  |
| Marine water  | (intermittent releases)                                                                       | 0,00339 mg/l  |
| Freshwater s  | ediment                                                                                       | 0,027 mg/kg   |
| Marine sedim  | ent                                                                                           | 0,027 mg/kg   |
| Micro-organis | ms in sewage treatment plants (STP)                                                           | 0,23 mg/l     |
| Soil          |                                                                                               | 0,01 mg/kg    |

## Additional advice on limit values

To date, no national critical limit values exist.

#### 8.2. Exposure controls



#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

### Protective and hygiene measures

Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work. Draw up and observe skin protection programme. Use protective skin cream before handling the product. When using do not eat, drink, smoke, sniff.

## Eye/face protection

Wear eye/face protection.

#### Hand protection

Wear protective gloves.

Suitable material: NBR (Nitrile rubber)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is

according to UK REACH Regulation

MIXOL® Nr. 30 Oxyd-Brillant-Gelb

## replaces vers.frm: 24.03.2021

Revision date: 22.04.2022

Product code: PES80

Page 6 of 11

recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties of the material must be taken into consideration.

## Skin protection

Use of protective clothing.

**Respiratory protection** 

In case of inadequate ventilation wear respiratory protection.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

| Physical state:                                           | Liquid (Dispersion) |                                  |
|-----------------------------------------------------------|---------------------|----------------------------------|
| Colour:                                                   | yellow              |                                  |
| Odour:                                                    | odourless           |                                  |
| pH-Value:                                                 |                     | not determined                   |
| Changes in the physical state                             |                     |                                  |
| Melting point/freezing point:                             |                     | not determined                   |
| Boiling point or initial boiling point and boiling range: |                     | 100 °C                           |
| Flash point:                                              |                     | > 100 °C                         |
| Flammability<br>Solid:                                    |                     | not applicable                   |
| Gas:                                                      |                     | not applicable                   |
| Explosive properties<br>The product is not: Explosive.    |                     |                                  |
| Lower explosion limits:                                   |                     | not determined                   |
| Upper explosion limits:                                   |                     | not determined                   |
| Auto-ignition temperature:                                |                     | not determined                   |
| <b>Self-ignition temperature</b><br>Solid:<br>Gas:        |                     | not applicable<br>not applicable |
| Decomposition temperature:                                |                     | > 100 °C                         |
| Oxidizing properties<br>Not oxidising.                    |                     |                                  |
| Vapour pressure:                                          |                     | not determined                   |
| Density (at 20 °C):                                       |                     | 2,01 g/cm <sup>3</sup>           |
| Water solubility:                                         |                     | miscible                         |
| Solubility in other solvents<br>not determined            |                     |                                  |
| Partition coefficient n-octanol/water:                    |                     | not determined                   |
| Viscosity / dynamic:                                      |                     | not determined                   |
| Viscosity / kinematic:                                    |                     | not determined                   |
| Relative vapour density:                                  |                     | not determined                   |
| Evaporation rate:                                         |                     | not determined                   |
| 9.2. Other information                                    |                     |                                  |

according to UK REACH Regulation

replaces vers.frm:24.03.2021 Revision date: 22.04.2022

MIXOL® Nr. 30 Oxyd-Brillant-Gelb Product code: PES80

Page 7 of 11

No information available.

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 10.5. Incompatible materials

No information available.

## 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### Acute toxicity

.....

Based on available data, the classification criteria are not met. ATEmix calculated: oral: > 2000 mg/kg dermal: > 2000 mg/kg Inhalation (vapour): >20 mg/L (4 h) Inhalation (dust/mist): > 5 mg/L (4h)

| CAS No     | Chemical name                                                                                 |                                                   |                 |         |              |                |  |  |
|------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------|---------|--------------|----------------|--|--|
|            | Exposure route                                                                                | Dose                                              |                 | Species | Source       | Method         |  |  |
| 14059-33-7 | Bismuth vanadium tet                                                                          | Bismuth vanadium tetraoxide, particle size <10 µm |                 |         |              |                |  |  |
|            | oral                                                                                          | LD50<br>mg/kg                                     | > 5000          | Rat     | Manufacturer | OECD 401       |  |  |
|            | inhalation (4 h)<br>dust/mist                                                                 | LC50<br>mg/l                                      | > 5,1           | Rat     | Manufacturer | OECD 403       |  |  |
| 2634-33-5  | 1,2-benzisothiazol-3(2                                                                        | 2H)-one; 1,2-b                                    | enzisothiazolii | n-3-one |              |                |  |  |
|            | oral                                                                                          | LD50<br>mg/kg                                     | 670 - 784       | Rat     | Manufacturer | OECD 401       |  |  |
|            | dermal                                                                                        | LD50<br>mg/kg                                     | > 2000          | Rat     | Manufacturer |                |  |  |
|            | inhalation vapour                                                                             | ATE                                               | 0,5 mg/l        |         |              |                |  |  |
|            | inhalation (4 h)<br>dust/mist                                                                 | LC50                                              | 0,5 mg/l        | Rat     | Manufacturer | OPPTS 870.1300 |  |  |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |                                                   |                 |         |              |                |  |  |
|            | oral                                                                                          | LD50                                              | 64 mg/kg        | Rat     | Manufacturer |                |  |  |
|            | dermal                                                                                        | LD50<br>mg/kg                                     | 92,4            | Rabbit  | Manufacturer |                |  |  |
|            | inhalation vapour                                                                             | ATE                                               | 0,5 mg/l        |         |              |                |  |  |
|            | inhalation (4 h)<br>dust/mist                                                                 | LC50<br>mg/l                                      | 0,171           | Rat     | Manufacturer |                |  |  |

according to UK REACH Regulation

## replaces vers.frm:24.03.2021 Revision date: 22.04.2022

MIXOL® Nr. 30 Oxyd-Brillant-Gelb Product code: PES80

Page 8 of 11

#### Irritation and corrosivity

Based on available data, the classification criteria are not met. Skin corrosion/irritation: Result / Evaluation: non-irritant. (Rabbit) Method: OECD 404 Test was carried out with a similar formulation. (By analogy.)

Serious eye damage/eye irritation: Result / Evaluation: non-irritant. (Rabbit) Method: OECD 405 Test was carried out with a similar formulation. (By analogy.)

#### Sensitising effects

Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

## Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

The product is not: Ecotoxic.

| CAS No     | Chemical name                                     |                |                |           |                                        |              |          |
|------------|---------------------------------------------------|----------------|----------------|-----------|----------------------------------------|--------------|----------|
|            | Aquatic toxicity                                  | Dose           |                | [h]   [d] | Species                                | Source       | Method   |
| 14059-33-7 | Bismuth vanadium tetraoxide, particle size <10 μm |                |                |           |                                        |              |          |
|            | Acute fish toxicity                               | LC50<br>mg/l   | > 10000        | 96 h      | Danio rerio (zebrafish)                | Manufacturer | OECD 203 |
|            | Acute algae toxicity                              | ErC50<br>mg/l  | > 100          | 72 h      | Desmodesmus<br>subspicatus             | Manufacturer | OECD 201 |
|            | Acute crustacea toxicity                          | EC50<br>mg/l   | > 100          | 48 h      | Daphnia pulex (water<br>flea)          | Manufacturer |          |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-                         | one; 1,2-ber   | nzisothiazolin | -3-one    |                                        |              |          |
|            | Acute algae toxicity                              | ErC50<br>mg/l  | 0,155          | 72 h      | Selenastrum<br>capricornutum           | Manufacturer | OECD 201 |
|            | Fish toxicity                                     | NOEC<br>mg/l   | 0,21           | 28 d      | Oncorhynchus mykiss<br>(Rainbow trout) | Manufacturer | OECD 215 |
|            | Acute bacteria toxicity                           | (EC50          | 23 mg/l)       | 3 h       | Activated sludge                       | Manufacturer | OECD 209 |
| 55965-84-9 | reaction mass of 5-chloro                         | -2-methyl-2l   | H-isothiazol-3 | 3-one an  | d 2-methyl-2H-isothiazol-              | 3-one (3:1)  |          |
|            | Acute bacteria toxicity                           | (EC50<br>mg/l) | 7,92           | 3 h       | Activated sludge                       | Manufacturer | OECD 209 |

## 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

The product has not been tested.

according to UK REACH Regulation

replaces vers.frm: 24.03.2021

# MIXOL® Nr. 30 Oxyd-Brillant-Gelb

Page 9 of 11

Revision date: 22.04.2022

#### Product code: PES80

#### Partition coefficient n-octanol/water

| BCE        |                                                                                               |              |
|------------|-----------------------------------------------------------------------------------------------|--------------|
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | -0,71 - 0,75 |
| CAS No     | Chemical name                                                                                 | Log Pow      |

| DUF        |                                                                                                     |      |                                   |              |
|------------|-----------------------------------------------------------------------------------------------------|------|-----------------------------------|--------------|
| CAS No     | Chemical name                                                                                       | BCF  | Species                           | Source       |
| 14059-33-7 | Bismuth vanadium tetraoxide, particle<br>size <10 μm                                                | < 14 | Oryzias latipes (Ricefish)        | Manufacturer |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one;<br>1,2-benzisothiazolin-3-one                                         | 6,62 | Lepomis macrochirus<br>(Bluegill) | Manufacturer |
| 55965-84-9 | reaction mass of<br>5-chloro-2-methyl-2H-isothiazol-3-one<br>and 2-methyl-2H-isothiazol-3-one (3:1) | 3,6  |                                   | Manufacturer |

## 12.4. Mobility in soil

The product has not been tested.

## 12.6. Other adverse effects

No information available.

## **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

## Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

| Land transport (ADR/RID)          |                                                          |
|-----------------------------------|----------------------------------------------------------|
| <u>14.1. UN number:</u>           | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |

| Inland waterways transport (ADN)  |                                                          |  |  |  |
|-----------------------------------|----------------------------------------------------------|--|--|--|
| <u>14.1. UN number:</u>           | No dangerous good in sense of this transport regulation. |  |  |  |
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |  |  |  |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |  |  |  |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |  |  |  |
| Marine transport (IMDG)           |                                                          |  |  |  |
| <u>14.1. UN number:</u>           | No dangerous good in sense of this transport regulation. |  |  |  |
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |  |  |  |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |  |  |  |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |  |  |  |

according to UK REACH Regulation

| replaces vers.frm:24.03.2021                                           | MIXOL® Nr. 30 Oxyd-Brillant-Gelb                                                                                   |             |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------|
| Revision date: 22.04.2022                                              | Product code: PES80 Pa                                                                                             | ge 10 of 11 |
| Air transport (ICAO-TI/IATA-DGR)                                       |                                                                                                                    |             |
| <u>14.1. UN number:</u>                                                | No dangerous good in sense of this transport regulation.                                                           |             |
| 14.2. UN proper shipping name:                                         | No dangerous good in sense of this transport regulation.                                                           |             |
| 14.3. Transport hazard class(es):                                      | No dangerous good in sense of this transport regulation.                                                           |             |
| 14.4. Packing group:                                                   | No dangerous good in sense of this transport regulation.                                                           |             |
| 14.5. Environmental hazards                                            |                                                                                                                    |             |
| ENVIRONMENTALLY HAZARDOUS:                                             | No                                                                                                                 |             |
| <b>14.6. Special precautions for user</b><br>No information available. |                                                                                                                    |             |
| 14.7. Transport in bulk according to Annex                             | x II of Marpol and the IBC Code                                                                                    |             |
| not applicable                                                         |                                                                                                                    |             |
| SECTION 15: Regulatory information                                     |                                                                                                                    |             |
| 15.1. Safety, health and environmental reg                             | ulations/legislation specific for the substance or mixture                                                         |             |
| EU regulatory information                                              |                                                                                                                    |             |
| Restrictions on use (REACH, annex XVII<br>Entry 75                     | ):                                                                                                                 |             |
| 2004/42/EC (VOC):                                                      | < 0,1 %                                                                                                            |             |
| Information according to 2012/18/EU<br>(SEVESO III):                   | Not subject to 2012/18/EU (SEVESO III)                                                                             |             |
| National regulatory information                                        |                                                                                                                    |             |
| Employment restrictions:                                               | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/FC). |             |

Water hazard class (D):

Observe restrictions to employment for juveniles according to the 'juvenil work protection guideline' (94/33/EC). 3 - highly hazardous to water

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

# **SECTION 16: Other information**

### Abbreviations and acronyms

CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals **UN: United Nations** CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LC50: Lethal concentration, 50% LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route

according to UK REACH Regulation

| replaces vers.frm:24.03.2021                                                                                                                                                                                                                                                                                                  | MIXOL® Nr. 30 Oxyd-Brillant-Gelb                                             |               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------|
| Revision date: 22.04.2022                                                                                                                                                                                                                                                                                                     | Product code: PES80                                                          | Page 11 of 11 |
| RID: Regulations concerning the inter<br>ADN: European Agreement concerning<br>(Accord européen relatif au transport<br>intérieures)<br>IMDG: International Maritime Code for<br>EmS: Emergency Schedules<br>MFAG: Medical First Aid Guide<br>IATA: International Air Transport Ass<br>ICAO: International Civil Aviation Org | cociation<br>ganization<br>for the Prevention of Marine Pollution from Ships |               |

# Relevant H and EUH statements (number and full text)

| H301   | Toxic if swallowed.                                                                      |
|--------|------------------------------------------------------------------------------------------|
| H302   | Harmful if swallowed.                                                                    |
| H310   | Fatal in contact with skin.                                                              |
| H314   | Causes severe skin burns and eye damage.                                                 |
| H315   | Causes skin irritation.                                                                  |
| H317   | May cause an allergic skin reaction.                                                     |
| H318   | Causes serious eye damage.                                                               |
| H330   | Fatal if inhaled.                                                                        |
| H373   | May cause damage to organs through prolonged or repeated exposure.                       |
| H400   | Very toxic to aquatic life.                                                              |
| H410   | Very toxic to aquatic life with long lasting effects.                                    |
| H411   | Toxic to aquatic life with long lasting effects.                                         |
| H412   | Harmful to aquatic life with long lasting effects.                                       |
| EUH071 | Corrosive to the respiratory tract.                                                      |
| EUH208 | Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5    |
|        | -chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce |
|        | an allergic reaction.                                                                    |
| EUH210 | Safety data sheet available on request.                                                  |

## Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

according to UK REACH Regulation

|                                                    | according to UK REACH                                                          | Regulation                   |              |
|----------------------------------------------------|--------------------------------------------------------------------------------|------------------------------|--------------|
| replaces vers.frm:23.03.202                        |                                                                                |                              |              |
| Revision date: 22.04.2022                          | Product code: PES                                                              | \$78                         | Page 1 of 11 |
| SECTION 1: Identification                          | n of the substance/mixture and of the cor                                      | mpany/undertaking            |              |
| <u>1.1. Product identifier</u><br>MIXOL® Nr. 31 Ox | yd-Brillant-Grün                                                               |                              |              |
| 1.2. Relevant identified use                       | es of the substance or mixture and uses advis                                  | ed against                   |              |
| Use of the substance/m<br>Colour, Pigment          |                                                                                |                              |              |
| 1.3. Details of the supplier                       | <u>of the safety data sheet</u>                                                |                              |              |
| Company name:<br>Street:<br>Place:                 | MIXOL-PRODUKTE Diebold Gmbł<br>Carl-Zeiss-Str. 17-19<br>D-73230 Kirchheim/Teck | 4                            |              |
| Telephone:                                         | +49/(0)7021 / 950090                                                           | Telefax: +49/(0)7021 / 56030 |              |
| e-mail:                                            |                                                                                |                              |              |
| e-mail (Contact person):<br>Internet:              | Technik@mixol.de                                                               |                              |              |
| Responsible Department                             | t: Technik                                                                     |                              |              |
| 1.4. Emergency telephone<br>number:                |                                                                                | CGmbH +49/(0)6132 / 84463    |              |
| SECTION 2: Hazards ide                             | ntification                                                                    |                              |              |
| 2.4. Classification of the s                       |                                                                                |                              |              |
| 2.1. Classification of the su                      | idstance of mixture                                                            |                              |              |
| GB CLP Regulation<br>Aquatic Chronic 3; H          | 410                                                                            |                              |              |
| Aqualic Onforme 5, 11                              | +12                                                                            |                              |              |
| Full text of hazard sta                            | atements: see SECTION 16.                                                      |                              |              |
| 2.2. Label elements                                |                                                                                |                              |              |
| GB CLP Regulation                                  |                                                                                |                              |              |
| Hazard statements                                  |                                                                                |                              |              |
| H412                                               | Harmful to aquatic life with long lasting effects                              | 5.                           |              |
| Precautionary statemer                             | ıts                                                                            |                              |              |
| P273                                               | Avoid release to the environment.                                              |                              |              |
| P501                                               | Dispose of waste according to applicable legis                                 | slation.                     |              |
|                                                    |                                                                                |                              |              |

# Special labelling of certain mixtures

Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5 -chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

# 2.3. Other hazards

EUH208

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

according to UK REACH Regulation

replaces vers.frm:23.03.2021 Revision date: 22.04.2022

MIXOL® Nr. 31 Oxyd-Brillant-Grün Product code: PES78

Page 2 of 11

#### Hazardous components

| CAS No     | Chemical name                                                             |                              |                  | Quantity   |
|------------|---------------------------------------------------------------------------|------------------------------|------------------|------------|
|            | EC No                                                                     | Index No                     | REACH No         |            |
|            | GHS Classification                                                        |                              |                  |            |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd.,                                         | ethoxylated                  |                  | 5 - < 10 % |
|            | 500-236-9                                                                 |                              |                  |            |
|            | Skin Irrit. 2, Aquatic Acute 1, Aquat                                     | ic Chronic 3; H315 H400 H412 |                  |            |
| 112-02-7   | Cetrimonium chloride                                                      |                              | < 1 %            |            |
|            | 203-928-6                                                                 |                              |                  |            |
|            | Acute Tox. 3, Acute Tox. 4, Skin Co<br>H302 H314 H318 H400 H410           | , Aquatic Chronic 1; H311    |                  |            |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-b                                       |                              | < 0.1 %          |            |
|            | 220-120-9                                                                 | 613-088-00-6                 | 01-2120761540-60 |            |
|            | Acute Tox. 2, Acute Tox. 4, Skin Irr<br>Chronic 2; H330 H302 H315 H318    | atic Acute 1, Aquatic        |                  |            |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-                                       | H-isothiazol-3-one (3:1)     | < 0.1 %          |            |
|            | -                                                                         | 613-167-00-5                 | 01-2120764691-48 |            |
|            | Acute Tox. 2, Acute Tox. 2, Acute T<br>Acute 1, Aquatic Chronic 1; H330 F |                              |                  |            |

Full text of H and EUH statements: see section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

When in doubt or if symptoms are observed, get medical advice.

#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical advice/attention.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

#### After ingestion

Observe risk of aspiration if vomiting occurs. @0405.B004145 Get medical advice/attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

## 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Water spray jet, Extinguishing powder, Carbon dioxide (CO2), alcohol resistant foam.

according to UK REACH Regulation

# replaces vers.frm:23.03.2021 Revision date: 22.04.2022

MIXOL® Nr. 31 Oxyd-Brillant-Grün Product code: PES78

Page 3 of 11

#### Unsuitable extinguishing media

Full water jet

# 5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### 6.3. Methods and material for containment and cleaning up

Clean contaminated articles and floor according to the environmental legislation.

# 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray. Use personal protection equipment.

#### Advice on protection against fire and explosion

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

### Further information on handling

Handle and open container with care.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

No information available.

#### Further information on storage conditions

storage stability: >= 36 month(s)

#### 7.3. Specific end use(s)

Colour, Pigment

#### **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

according to UK REACH Regulation

replaces vers.frm:23.03.2021 Revision date: 22.04.2022

MIXOL® Nr. 31 Oxyd-Brillant-Grün Product code: PES78

Page 4 of 11

# Exposure limits (EH40)

| CAS No | Substance                                                                                                                   | ppm | mg/m³ | fibres/ml | Category  | Origin |
|--------|-----------------------------------------------------------------------------------------------------------------------------|-----|-------|-----------|-----------|--------|
| -      | Cobalt and cobalt compounds (as Co)                                                                                         | -   | 0.1   |           | TWA (8 h) | WEL    |
| -      | Nickel and its inorganic compounds (except<br>nickel tetracarbonyl): nickel and<br>water-insoluble nickel compounds (as Ni) | -   | 0.5   |           | TWA (8 h) | WEL    |

# **DNEL/DMEL** values

| CAS No                   | Substance                                                  |                         |               |                        |  |  |  |  |
|--------------------------|------------------------------------------------------------|-------------------------|---------------|------------------------|--|--|--|--|
| DNEL type                |                                                            | Exposure route          | Effect        | Value                  |  |  |  |  |
| 112-02-7                 | Cetrimonium chloride                                       |                         |               |                        |  |  |  |  |
| Worker DNEL,             | , long-term                                                | inhalation              | systemic      | 3,32 mg/m³             |  |  |  |  |
| Worker DNEL,             | , long-term                                                | dermal                  | systemic      | 4,7 mg/kg bw/day       |  |  |  |  |
| Consumer DN              | EL, long-term                                              | inhalation              | systemic      | 0,98 mg/m³             |  |  |  |  |
| Consumer DN              | EL, long-term                                              | dermal                  | systemic      | 2,83 mg/kg<br>bw/day   |  |  |  |  |
| Consumer DN              | EL, long-term                                              | oral                    | systemic      | 2,83 mg/kg<br>bw/day   |  |  |  |  |
| 2634-33-5                | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one   |                         |               |                        |  |  |  |  |
| Worker DNEL,             | , long-term                                                | inhalation              | systemic      | 6,81 mg/m³             |  |  |  |  |
| Worker DNEL,             | long-term                                                  | dermal                  | systemic      | 0,966 mg/kg<br>bw/day  |  |  |  |  |
| Consumer DN              | EL, long-term                                              | inhalation              | systemic      | 1,2 mg/m³              |  |  |  |  |
| Consumer DN              | EL, long-term                                              | dermal                  | systemic      | 0,345 mg/kg<br>bw/day  |  |  |  |  |
| 55965-84-9               | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and | d 2-methyl-2H-isothiazo | I-3-one (3:1) |                        |  |  |  |  |
| Worker DNEL,             | , long-term                                                | inhalation              | local         | 0,02 mg/m³             |  |  |  |  |
| Worker DNEL, acute       |                                                            | inhalation              | local         | 0,04 mg/m³             |  |  |  |  |
| Consumer DNEL, long-term |                                                            | inhalation              | local         | 0,02 mg/m³             |  |  |  |  |
| Consumer DNEL, acute     |                                                            | inhalation              | local         | 0,04 mg/m <sup>3</sup> |  |  |  |  |
| Consumer DN              | EL, long-term                                              | oral                    | systemic      | 0,11 mg/kg<br>bw/day   |  |  |  |  |
| Consumer DN              | EL, acute                                                  | oral                    | systemic      | 0,09 mg/kg<br>bw/day   |  |  |  |  |

according to UK REACH Regulation

replaces vers.frm:23.03.2021 Revision date: 22.04.2022

MIXOL® Nr. 31 Oxyd-Brillant-Grün Product code: PES78

Page 5 of 11

#### **PNEC** values

| CAS No                                    | Substance                                                                               |               |  |  |  |  |
|-------------------------------------------|-----------------------------------------------------------------------------------------|---------------|--|--|--|--|
| Environmenta                              | al compartment                                                                          | Value         |  |  |  |  |
| 112-02-7                                  | Cetrimonium chloride                                                                    |               |  |  |  |  |
| Freshwater 0,000                          |                                                                                         |               |  |  |  |  |
| Freshwater (i                             | intermittent releases)                                                                  | 0,0008 mg/l   |  |  |  |  |
| Marine water                              |                                                                                         | 0,000068 mg/l |  |  |  |  |
| Freshwater s                              | ediment                                                                                 | 9,27 mg/kg    |  |  |  |  |
| Marine sedim                              | nent                                                                                    | 0,927 mg/kg   |  |  |  |  |
| Micro-organis                             | sms in sewage treatment plants (STP)                                                    | 0,4 mg/l      |  |  |  |  |
| Soil                                      |                                                                                         | 7 mg/kg       |  |  |  |  |
| 2634-33-5                                 | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                                |               |  |  |  |  |
| Freshwater                                | 0,00403 mg/l                                                                            |               |  |  |  |  |
| Freshwater (intermittent releases) 0,00   |                                                                                         |               |  |  |  |  |
| Marine water                              |                                                                                         | 0,000403 mg/l |  |  |  |  |
| Marine water                              | (intermittent releases)                                                                 | 0,0011 mg/l   |  |  |  |  |
| Freshwater s                              | ediment                                                                                 | 0,0499 mg/kg  |  |  |  |  |
| Marine sedim                              | nent                                                                                    | 0,00499 mg/kg |  |  |  |  |
| Micro-organis                             | sms in sewage treatment plants (STP)                                                    | 1,03 mg/l     |  |  |  |  |
| Soil                                      |                                                                                         | 3 mg/kg       |  |  |  |  |
| 55965-84-9                                | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | ne (3:1)      |  |  |  |  |
| Freshwater                                |                                                                                         | 0,00339 mg/l  |  |  |  |  |
| Freshwater (i                             | intermittent releases)                                                                  | 0,00339 mg/l  |  |  |  |  |
| Marine water                              | 0,00339 mg/l                                                                            |               |  |  |  |  |
| Marine water (intermittent releases) 0,00 |                                                                                         |               |  |  |  |  |
| Freshwater sediment 0,02                  |                                                                                         |               |  |  |  |  |
| Marine sedim                              | nent                                                                                    | 0,027 mg/kg   |  |  |  |  |
| Micro-organis                             | sms in sewage treatment plants (STP)                                                    | 0,23 mg/l     |  |  |  |  |
| Soil 0,01 mg/k                            |                                                                                         |               |  |  |  |  |

# 8.2. Exposure controls





# Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

#### Protective and hygiene measures

Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work. Draw up and observe skin protection programme. Use protective skin cream before handling the product. When using do not eat, drink, smoke, sniff.

#### Eye/face protection

Wear eye/face protection.

### Hand protection

Wear protective gloves.

according to UK REACH Regulation

replaces vers.frm:23.03.2021 Revision date: 22.04.2022

MIXOL® Nr. 31 Oxyd-Brillant-Grün Product code: PES78

Page 6 of 11

Suitable material: NBR (Nitrile rubber)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties of the material must be taken into consideration.

#### Skin protection

Use of protective clothing.

### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

|           | Physical state:                                           | Liquid (Dispersion) |                        |
|-----------|-----------------------------------------------------------|---------------------|------------------------|
|           | Colour:                                                   | green               |                        |
|           | Odour:                                                    | odourless           |                        |
|           | pH-Value:                                                 |                     | not determined         |
|           | Changes in the physical state                             |                     |                        |
|           | Melting point/freezing point:                             |                     | not determined         |
|           | Boiling point or initial boiling point and boiling range: |                     | 100 °C                 |
|           | Flash point:                                              |                     | > 100 °C               |
|           | Flammability                                              |                     |                        |
|           | Solid:                                                    |                     | not applicable         |
|           | Gas:                                                      |                     | not applicable         |
|           | Lower explosion limits:                                   |                     | not determined         |
|           | Upper explosion limits:                                   |                     | not determined         |
|           | Auto-ignition temperature:                                |                     | not determined         |
|           | Decomposition temperature:                                |                     | > 100 °C               |
|           | Vapour pressure:                                          |                     | not determined         |
|           | Density (at 20 °C):                                       |                     | 2,04 g/cm <sup>3</sup> |
|           | Water solubility:                                         |                     | miscible               |
|           | Solubility in other solvents<br>not determined            |                     |                        |
|           | Partition coefficient n-octanol/water:                    |                     | not determined         |
|           | Viscosity / kinematic:                                    |                     | not determined         |
|           | Relative vapour density:                                  |                     | not determined         |
| <u>9.</u> | 2. Other information                                      |                     |                        |
|           | No information available.                                 |                     |                        |
|           |                                                           |                     |                        |

#### **SECTION 10: Stability and reactivity**

according to UK REACH Regulation

# MIXOL® Nr. 31 Oxyd-Brillant-Grün

Revision date: 22.04.2022

replaces vers.frm: 23.03.2021

Product code: PES78

Page 7 of 11

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met. ATEmix calculated: oral: > 2000 mg/kg dermal: > 2000 mg/kg Inhalation (vapour): >20 mg/L (4 h) Inhalation (dust/mist): > 5 mg/L (4h)

| CAS No     | Chemical name                                                                                 |                |                 |         |              |                |
|------------|-----------------------------------------------------------------------------------------------|----------------|-----------------|---------|--------------|----------------|
|            | Exposure route                                                                                | Dose           |                 | Species | Source       | Method         |
| 112-02-7   | Cetrimonium chloride                                                                          |                |                 |         |              |                |
|            | oral                                                                                          | LD50<br>mg/kg  | 699             | Rat     | Manufacturer |                |
|            | dermal                                                                                        | LD50<br>mg/kg  | 528             | Rabbit  | Manufacturer |                |
| 2634-33-5  | 1,2-benzisothiazol-3(2                                                                        | 2H)-one; 1,2-b | enzisothiazolii | n-3-one |              |                |
|            | oral                                                                                          | LD50<br>mg/kg  | 670 - 784       | Rat     | Manufacturer | OECD 401       |
|            | dermal                                                                                        | LD50<br>mg/kg  | > 2000          | Rat     | Manufacturer |                |
|            | inhalation vapour                                                                             | ATE            | 0,5 mg/l        |         |              |                |
|            | inhalation (4 h)<br>dust/mist                                                                 | LC50           | 0,5 mg/l        | Rat     | Manufacturer | OPPTS 870.1300 |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |                |                 |         |              |                |
|            | oral                                                                                          | LD50           | 64 mg/kg        | Rat     | Manufacturer |                |
|            | dermal                                                                                        | LD50<br>mg/kg  | 92,4            | Rabbit  | Manufacturer |                |
|            | inhalation vapour                                                                             | ATE            | 0,5 mg/l        |         |              |                |
|            | inhalation (4 h)<br>dust/mist                                                                 | LC50<br>mg/l   | 0,171           | Rat     | Manufacturer |                |

Irritation and corrosivity

according to UK REACH Regulation

# replaces vers.frm:23.03.2021 Revision date: 22.04.2022

MIXOL® Nr. 31 Oxyd-Brillant-Grün Product code: PES78

Page 8 of 11

Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Result / Evaluation: non-irritant. (Rabbit)

Method: OECD 404

Test was carried out with a similar formulation. (By analogy.)

Serious eye damage/eye irritation: Result / Evaluation: non-irritant. (Rabbit)

Method: OECD 405 Test was carried out with a similar formulation. (By analogy.)

#### Sensitising effects

Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

# Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

| CAS No                                  | Chemical name              |                        |                |                                        |                                    |              |          |
|-----------------------------------------|----------------------------|------------------------|----------------|----------------------------------------|------------------------------------|--------------|----------|
|                                         | Aquatic toxicity           | Dose                   |                | [h]   [d]                              | Species                            | Source       | Method   |
| 112-02-7                                | Cetrimonium chloride       |                        |                |                                        |                                    |              |          |
|                                         | Acute algae toxicity       | ErC50<br>mg/l          | 0,08           | 72 h                                   | Pseudokirchneriella<br>subcapitata | Manufacturer | OECD 201 |
| Acute crustacea toxicity EC50 0,09 mg/l |                            |                        | 0,09           | 48 h                                   | Daphnia magna (Big<br>water flea)  | Manufacturer | OECD 202 |
|                                         | Crustacea toxicity         | NOEC<br>mg/l           | 0,0068         |                                        | Daphnia magna (Big<br>water flea)  | Manufacturer | OECD 211 |
| 2634-33-5                               | 1,2-benzisothiazol-3(2H)-  | one; 1,2-ber           | nzisothiazolin | n-3-one                                |                                    |              |          |
|                                         | Acute algae toxicity       | ErC50<br>mg/l          | 0,155          |                                        | Selenastrum<br>capricornutum       | Manufacturer | OECD 201 |
|                                         | Fish toxicity              | NOEC 0,21 28 d Oncorhy |                | Oncorhynchus mykiss<br>(Rainbow trout) |                                    | OECD 215     |          |
|                                         | Acute bacteria toxicity    | (EC50                  | 23 mg/l)       | 3 h                                    | Activated sludge                   | Manufacturer | OECD 209 |
| 55965-84-9                              | reaction mass of 5-chloro- | -2-methyl-2H           | l-isothiazol-3 | 3-one an                               | d 2-methyl-2H-isothiazol-          | 3-one (3:1)  |          |
|                                         | Acute bacteria toxicity    | (EC50<br>mg/l)         | 7,92           | 3 h                                    | Activated sludge                   | Manufacturer | OECD 209 |

#### 12.2. Persistence and degradability

The product has not been tested.

according to UK REACH Regulation

| replaces vers.frm:23.03.2021 |
|------------------------------|
| Revision date: 22.04.2022    |

MIXOL® Nr. 31 Oxyd-Brillant-Grün Product code: PES78

Page 9 of 11

| CAS No   | Chemical name                                       |        |    |              |
|----------|-----------------------------------------------------|--------|----|--------------|
|          | Method                                              | Value  | d  | Source       |
|          | Evaluation                                          | -      | -  |              |
| 112-02-7 | Cetrimonium chloride                                |        |    |              |
|          | OECD 301B                                           | 93,5 % | 28 | Manufacturer |
|          | Readily biodegradable (according to OECD criteria). |        |    |              |

### 12.3. Bioaccumulative potential

### The product has not been tested.

#### Partition coefficient n-octanol/water

| CAS No     | Chemical name                                                                                 | Log Pow      |
|------------|-----------------------------------------------------------------------------------------------|--------------|
| 112-02-7   | Cetrimonium chloride                                                                          | 3,08         |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | -0,71 - 0,75 |

#### BCF

| CAS No     | Chemical name                                                                                       | BCF  | Species                           | Source       |
|------------|-----------------------------------------------------------------------------------------------------|------|-----------------------------------|--------------|
| 112-02-7   | Cetrimonium chloride                                                                                | 70,8 |                                   | Manufacturer |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one;<br>1,2-benzisothiazolin-3-one                                         | 6,62 | Lepomis macrochirus<br>(Bluegill) | Manufacturer |
| 55965-84-9 | reaction mass of<br>5-chloro-2-methyl-2H-isothiazol-3-one<br>and 2-methyl-2H-isothiazol-3-one (3:1) | 3,6  |                                   | Manufacturer |

### 12.4. Mobility in soil

The product has not been tested.

### 12.6. Other adverse effects

No information available.

#### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

## Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

#### Land transport (ADR/RID)

| <u>14.1. UN number:</u>           | No dangerous good in sense of this transport regulation. |
|-----------------------------------|----------------------------------------------------------|
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u>       | No dangerous good in sense of this transport regulation. |

#### Inland waterways transport (ADN)

according to UK REACH Regulation

| replaces vers.frm:23.03.2021                                                     | MIXOL® Nr. 31 Oxyd-Brillant-Grün                                                                                   |           |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------|
| Revision date: 22.04.2022                                                        | -                                                                                                                  | e 10 of 1 |
|                                                                                  |                                                                                                                    |           |
| 14.1. UN number:                                                                 | No dangerous good in sense of this transport regulation.                                                           |           |
| 14.2. UN proper shipping name:                                                   | No dangerous good in sense of this transport regulation.                                                           |           |
| 14.3. Transport hazard class(es):                                                | No dangerous good in sense of this transport regulation.                                                           |           |
| 14.4. Packing group:                                                             | No dangerous good in sense of this transport regulation.                                                           |           |
| Marine transport (IMDG)                                                          |                                                                                                                    |           |
| 14.1. UN number:                                                                 | No dangerous good in sense of this transport regulation.                                                           |           |
| 14.2. UN proper shipping name:                                                   | No dangerous good in sense of this transport regulation.                                                           |           |
| <u>14.3. Transport hazard class(es):</u>                                         | No dangerous good in sense of this transport regulation.                                                           |           |
| 14.4. Packing group:                                                             | No dangerous good in sense of this transport regulation.                                                           |           |
| Air transport (ICAO-TI/IATA-DGR)                                                 |                                                                                                                    |           |
| <u>14.1. UN number:</u>                                                          | No dangerous good in sense of this transport regulation.                                                           |           |
| 14.2. UN proper shipping name:                                                   | No dangerous good in sense of this transport regulation.                                                           |           |
| 14.3. Transport hazard class(es):                                                | No dangerous good in sense of this transport regulation.                                                           |           |
| 14.4. Packing group:                                                             | No dangerous good in sense of this transport regulation.                                                           |           |
| 14.5. Environmental hazards                                                      |                                                                                                                    |           |
| ENVIRONMENTALLY HAZARDOUS:                                                       | No                                                                                                                 |           |
| <b>14.6. Special precautions for user</b><br>No information available.           |                                                                                                                    |           |
| 14.7. Transport in bulk according to Annex I<br>not applicable                   | I of Marpol and the IBC Code                                                                                       |           |
| SECTION 15: Regulatory information                                               |                                                                                                                    |           |
| 15.1. Safety, health and environmental regul                                     | ations/legislation specific for the substance or mixture                                                           |           |
| EU regulatory information                                                        |                                                                                                                    |           |
| Restrictions on use (REACH, annex XVII):                                         |                                                                                                                    |           |
| Entry 3, Entry 75                                                                |                                                                                                                    |           |
| 2004/42/EC (VOC):                                                                | < 19 %                                                                                                             |           |
| Information according to 2012/18/EU<br>(SEVESO III):                             | Not subject to 2012/18/EU (SEVESO III)                                                                             |           |
| National regulatory information                                                  |                                                                                                                    |           |
| Employment restrictions:                                                         | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). |           |
| Water hazard class (D):                                                          | 3 - highly hazardous to water                                                                                      |           |
|                                                                                  |                                                                                                                    |           |
| 15.2. Chemical safety assessment                                                 |                                                                                                                    |           |
| <u>15.2. Chemical safety assessment</u><br>Chemical safety assessments for subst | ances in this mixture were not carried out.                                                                        |           |

CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate

according to UK REACH Regulation

| replaces v | ers.frm:23 | .03.2021 |
|------------|------------|----------|
|------------|------------|----------|

Revision date: 22.04.2022

MIXOL® Nr. 31 Oxyd-Brillant-Grün Product code: PES78

Page 11 of 11

LC50: Lethal concentration, 50% LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: verv persistent, verv bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) IMDG: International Maritime Code for Dangerous Goods EmS: Emergency Schedules MFAG: Medical First Aid Guide IATA: International Air Transport Association ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Aquatic Chronic 3: H412 | Calculation method       |

#### Relevant H and EUH statements (number and full text)

| H301   | Toxic if swallowed.                                                                                                                                                                                        |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H302   | Harmful if swallowed.                                                                                                                                                                                      |
| H310   | Fatal in contact with skin.                                                                                                                                                                                |
| H311   | Toxic in contact with skin.                                                                                                                                                                                |
| H314   | Causes severe skin burns and eye damage.                                                                                                                                                                   |
| H315   | Causes skin irritation.                                                                                                                                                                                    |
| H317   | May cause an allergic skin reaction.                                                                                                                                                                       |
| H318   | Causes serious eye damage.                                                                                                                                                                                 |
| H330   | Fatal if inhaled.                                                                                                                                                                                          |
| H400   | Very toxic to aquatic life.                                                                                                                                                                                |
| H410   | Very toxic to aquatic life with long lasting effects.                                                                                                                                                      |
| H411   | Toxic to aquatic life with long lasting effects.                                                                                                                                                           |
| H412   | Harmful to aquatic life with long lasting effects.                                                                                                                                                         |
| EUH071 | Corrosive to the respiratory tract.                                                                                                                                                                        |
| EUH208 | Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5<br>-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce<br>an allergic reaction. |

#### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

according to UK REACH Regulation

| replaces vers.frm:24.03.2021             | MIXOL® Nr. 32 Oxyd-Brillant-Bla              | iu                           |              |
|------------------------------------------|----------------------------------------------|------------------------------|--------------|
| Revision date: 22.04.2022                | Product code: PES83                          |                              | Page 1 of 11 |
|                                          |                                              |                              |              |
| SECTION 1: Identification of the s       | ubstance/mixture and of the company/un       | dertaking                    |              |
| 1.1. Product identifier                  |                                              |                              |              |
| MIXOL® Nr. 32 Oxyd-Brillant              | :-Blau                                       |                              |              |
| 1.2. Relevant identified uses of the su  | ubstance or mixture and uses advised against | <u>t</u>                     |              |
| Use of the substance/mixture             |                                              |                              |              |
| Colour, Pigment                          |                                              |                              |              |
| 1.3. Details of the supplier of the safe | ety data sheet                               |                              |              |
| Company name:                            | MIXOL-PRODUKTE Diebold GmbH                  |                              |              |
| Street:                                  | Carl-Zeiss-Str. 17-19                        |                              |              |
| Place:                                   | D-73230 Kirchheim/Teck                       |                              |              |
| Telephone:                               | +49/(0)7021 / 950090                         | Telefax: +49/(0)7021 / 56030 |              |
| e-mail:                                  |                                              |                              |              |
| e-mail (Contact person):                 | Technik@mixol.de                             |                              |              |
| Internet:                                |                                              |                              |              |
| Responsible Department:                  | Technik                                      |                              |              |
| 1.4. Emergency telephone                 | Emergency CONTACT (24 h) GBK GmbH +4         | 9/(0)6132 / 84463            |              |
| <u>number:</u>                           |                                              |                              |              |
| SECTION 2: Hazards identification        | n                                            |                              |              |
| 2.1. Classification of the substance o   | r mixture                                    |                              |              |
| GB CLP Regulation                        |                                              |                              |              |
| -                                        | hazardous in accordance with GB CLP Regulat  | tion.                        |              |
| 2.2. Label elements                      |                                              |                              |              |
|                                          |                                              |                              |              |

### **GB CLP Regulation**

### Special labelling of certain mixtures

EUH208Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5<br/>-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce<br/>an allergic reaction.EUH210Safety data sheet available on request.

### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

according to UK REACH Regulation

replaces vers.frm:24.03.2021 Revision date: 22.04.2022

MIXOL® Nr. 32 Oxyd-Brillant-Blau Product code: PES83

Page 2 of 11

# Hazardous components

| CAS No     | Chemical name                                                                                                                                                          |              |                  | Quantity   |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------|------------|
|            | EC No                                                                                                                                                                  | Index No     | REACH No         |            |
|            | GHS Classification                                                                                                                                                     |              |                  |            |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd.,                                                                                                                                      | ethoxylated  |                  | 5 - < 10 % |
|            | 500-236-9                                                                                                                                                              |              |                  |            |
|            | Skin Irrit. 2, Aquatic Acute 1, Aquati                                                                                                                                 |              |                  |            |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                                                                                                               |              |                  | < 0.1 %    |
|            | 220-120-9                                                                                                                                                              | 613-088-00-6 | 01-2120761540-60 |            |
|            | Acute Tox. 2, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2; H330 H302 H315 H318 H317 H400 H411                            |              |                  |            |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)                                                                          |              |                  | < 0.1 %    |
|            | -                                                                                                                                                                      | 613-167-00-5 | 01-2120764691-48 |            |
|            | Acute Tox. 2, Acute Tox. 2, Acute Tox. 3, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H310 H301 H314 H318 H317 H400 H410 EUH071 |              |                  |            |

Full text of H and EUH statements: see section 16.

# SECTION 4: First aid measures

# 4.1. Description of first aid measures

#### **General information**

When in doubt or if symptoms are observed, get medical advice.

#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical advice/attention.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

#### After ingestion

Observe risk of aspiration if vomiting occurs. @0405.B004145 Get medical advice/attention.

## 4.2. Most important symptoms and effects, both acute and delayed

No information available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Water spray jet, Extinguishing powder, Carbon dioxide (CO2), alcohol resistant foam.

# Unsuitable extinguishing media

Full water jet

### 5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).

according to UK REACH Regulation

# replaces vers.frm: 24.03.2021

**MIXOL® Nr. 32 Oxyd-Brillant-Blau** Product code: PES83

Page 3 of 11

Revision date: 22.04.2022

# 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### 6.3. Methods and material for containment and cleaning up

Clean contaminated articles and floor according to the environmental legislation.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray. Use personal protection equipment.

#### Advice on protection against fire and explosion

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

### Further information on handling

Handle and open container with care.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

No information available.

#### Further information on storage conditions

storage stability: >= 36 month(s)

#### 7.3. Specific end use(s)

Colour, Pigment

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### **Exposure limits (EH40)**

| CAS No | Substance                           | ppm | mg/m³ | fibres/ml | Category  | Origin |
|--------|-------------------------------------|-----|-------|-----------|-----------|--------|
| -      | Cobalt and cobalt compounds (as Co) | -   | 0.1   |           | TWA (8 h) | WEL    |

according to UK REACH Regulation

replaces vers.frm:24.03.2021 Revision date: 22.04.2022

MIXOL® Nr. 32 Oxyd-Brillant-Blau Product code: PES83

Page 4 of 11

# **DNEL/DMEL** values

| CAS No      | Substance                                                |                         |                  |                        |
|-------------|----------------------------------------------------------|-------------------------|------------------|------------------------|
| DNEL type   |                                                          | Exposure route          | Effect           | Value                  |
| 2634-33-5   | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | e                       |                  |                        |
| Worker DNEL | , long-term                                              | inhalation              | systemic         | 6,81 mg/m³             |
| Worker DNEL | ., long-term                                             | dermal                  | systemic         | 0,966 mg/kg<br>bw/day  |
| Consumer DN | IEL, long-term                                           | inhalation              | systemic         | 1,2 mg/m <sup>3</sup>  |
| Consumer DN | IEL, long-term                                           | dermal                  | systemic         | 0,345 mg/kg<br>bw/day  |
| 55965-84-9  | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one   | and 2-methyl-2H-isothia | azol-3-one (3:1) |                        |
| Worker DNEL | , long-term                                              | inhalation              | local            | 0,02 mg/m³             |
| Worker DNEL | ., acute                                                 | inhalation              | local            | 0,04 mg/m <sup>3</sup> |
| Consumer DN | NEL, long-term                                           | inhalation              | local            | 0,02 mg/m <sup>3</sup> |
| Consumer DN | NEL, acute                                               | inhalation              | local            | 0,04 mg/m <sup>3</sup> |
| Consumer DN | IEL, long-term                                           | oral                    | systemic         | 0,11 mg/kg<br>bw/day   |
| Consumer DN | IEL, acute                                               | oral                    | systemic         | 0,09 mg/kg<br>bw/day   |

## **PNEC** values

| CAS No                               | Substance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Environment                          | al compartment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Value                |
| 2634-33-5                            | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | •                    |
| Freshwater                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0,00403 mg/l         |
| Freshwater (                         | intermittent releases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0,0011 mg/l          |
| Marine water                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0,000403 mg/l        |
| Marine water                         | r (intermittent releases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0,0011 mg/l          |
| Freshwater s                         | sediment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0,0499 mg/kg         |
| Marine sediment                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0,00499 mg/kg        |
| Micro-organi                         | sms in sewage treatment plants (STP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1,03 mg/l            |
| Soil                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3 mg/kg              |
| 55965-84-9                           | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one and 3-methyl-3-methyl | othiazol-3-one (3:1) |
| Freshwater                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0,00339 mg/l         |
| Freshwater (                         | intermittent releases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0,00339 mg/l         |
| Marine water                         | r                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0,00339 mg/l         |
| Marine water (intermittent releases) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0,00339 mg/l         |
| Freshwater sediment                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0,027 mg/kg          |
| Marine sediment                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0,027 mg/kg          |
| Micro-organi                         | sms in sewage treatment plants (STP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0,23 mg/l            |
| Soil                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0,01 mg/kg           |

# 8.2. Exposure controls



according to UK REACH Regulation

# replaces vers.frm: 24.03.2021

MIXOL® Nr. 32 Oxyd-Brillant-Blau Product code: PES83

Page 5 of 11

Revision date: 22.04.2022

Product code: PES

#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

#### Protective and hygiene measures

Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work. Draw up and observe skin protection programme. Use protective skin cream before handling the product. When using do not eat, drink, smoke, sniff.

### Eye/face protection

Wear eye/face protection.

#### Hand protection

Wear protective gloves.

Suitable material: NBR (Nitrile rubber)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties of the material must be taken into consideration.

#### Skin protection

Use of protective clothing.

# **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

#### Environmental exposure controls

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

| 1. Information on pasic physical and cher                 |                     |                |
|-----------------------------------------------------------|---------------------|----------------|
| Physical state:                                           | Liquid (Dispersion) |                |
| Colour:                                                   | blue                |                |
| Odour:                                                    | odourless           |                |
| pH-Value:                                                 |                     | not determined |
| Changes in the physical state                             |                     |                |
| Melting point/freezing point:                             |                     | not determined |
| Boiling point or initial boiling point and boiling range: |                     | 100 °C         |
| Flash point:                                              |                     | > 100 °C       |
| Flammability                                              |                     |                |
| Solid:                                                    |                     | not applicable |
| Gas:                                                      |                     | not applicable |
| Lower explosion limits:                                   |                     | not determined |
| Upper explosion limits:                                   |                     | not determined |
| Auto-ignition temperature:                                |                     | not determined |
| Decomposition temperature:                                |                     | > 100 °C       |
| Vapour pressure:                                          |                     | not determined |
| Density (at 20 °C):                                       |                     | 1,99 g/cm³     |
| Water solubility:                                         |                     | miscible       |
|                                                           |                     |                |

according to UK REACH Regulation

| Revision date: 22.04.2022       Product code: PES83       Page 6 of 1         Solubility in other solvents<br>not determined       not determined         Partition coefficient n-octanol/water:       not determined         Viscosity / kinematic:       not determined         Relative vapour density:       not determined         92. Other information       No information available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | replaces vers.frm:24.03.2021                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                       |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------|
| Solubility in other solvents<br>not determined<br>Partition coefficient n-octanol/water: not determined<br>Viscosity / kinematic: not determined<br>Relative vapour density: not determined<br>8.2. Other information<br>No information available.<br>SECTION 10: Stability and reactivity<br>10.1. Reactivity<br>No hazardous reaction when handled and stored according to provisions.<br>10.2. Chemical stability<br>The product is stable under storage at normal ambient temperatures.<br>10.3. Possibility of hazardous reactions<br>No known hazardous reactions.<br>10.4. Conditions to avoid<br>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>10.5. Incompatible materials<br>No information available.<br>10.6. Hazardous decomposition products<br>In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).<br>SECTION 11: Toxicological information<br>11.1. Information on toxicological effects<br>Acute toxicity<br>Based on available data, the classification criteria are not met.<br>ATEmix calculated:<br>oral: > 2000 mg/kg<br>timbalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                     | MIXOL® Nr. 32 Oxyd-Brillant-Blau                                                                                      |              |
| not determined Partition coefficient n-octanol/water: not determined Viscosity / kinematic: not determined Viscosity / kinematic: not determined Relative vapour density: Not narration available. Reserving No hazardous reaction when handled and stored according to provisions. II. Conditions to avoid Reep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. II. Information available. II. Information on toxicological effects Acute toxicity Based on available data, the classification criteria are not met. ATEmix calculated: orai: > 2000 mg/kg dermal: > 2000 mg/kg inhalidation (vapour): > 200 mg/kg inhalidation (vapour): > 200 mg/kg inhalidation (vapour): > 20 mg/L (4 h)                                                                                                                 | Revision date: 22.04.2022                                                                                                                                                                                                                                                                                                                                                           | Product code: PES83                                                                                                   | Page 6 of 11 |
| Partition coefficient n-octanol/water: not determined<br>Viscosity / kinematic: not determined<br>Relative vapour density: not determined<br>32. Other information<br>No information available.<br>SECTION 10: Stability and reactivity<br>10.1. Reactivity<br>No hazardous reaction when handled and stored according to provisions.<br>10.2. Chemical stability<br>The product is stable under storage at normal ambient temperatures.<br>10.3. Possibility of hazardous reactions<br>No known hazardous reactions<br>No known hazardous reactions<br>10.4. Conditions to avoid<br>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>10.5. Incompatible materials<br>No information available.<br>10.6. Hazardous decomposition products<br>In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).<br>SECTION 11: Toxicological information<br>11.1. Information on toxicological effects<br>Acute toxicity<br>Based on available data, the classification criteria are not met.<br>ATEmix calculated:<br>oral: > 2000 mg/kg<br>dermal: > 2000 mg/kg<br>Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                              | Solubility in other solvents                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                       |              |
| Viscosity / kinematic: not determined<br>Relative vapour density: not determined<br><b>32. Other information</b><br>No information available.<br><b>SECTION 10: Stability and reactivity</b><br><b>10.1. Reactivity</b><br>No hazardous reaction when handled and stored according to provisions.<br><b>10.2. Chemical stability</b><br>The product is stable under storage at normal ambient temperatures.<br><b>10.3. Possibility of hazardous reactions</b><br>No known hazardous reactions.<br><b>10.4. Conditions to avoid</b><br>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br><b>10.5. Incompatible materials</b><br>No information available.<br><b>10.6. Arzardous decomposition products</b><br>In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOX).<br><b>SECTION 11: Toxicological information</b><br><b>11.1. Information on toxicological effects</b><br><b>Acute toxicity</b><br>Based on available data, the classification criteria are not met.<br>ATEmix calculated:<br>ora: > 2000 mg/kg<br>inrhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                       |              |
| Relative vapour density: not determined  2.2.Other information No information available.  SECTION 10: Stability and reactivity  Ose from a start of the stable under stored according to provisions.  10.2. Chemical stability The product is stable under storage at normal ambient temperatures.  10.3. Possibility of hazardous reactions No known hazardous reactions.  10.4. Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  10.5. Incompatible materials No information available.  10.6. Hazardous decomposition products In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOX).  SECTION 11: Toxicological information  11.1. Information on toxicological effects Acute toxicity Based on available data, the classification criteria are not met. ATEmix calculated: oral: > 2000 mg/kg dermal: > 2000 mg/kg Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                     | not determined                                                                                                        |              |
| <ul> <li>a. Other information<br/>No information available.</li> <li>SECTION 10: Stability and reactivity <ul> <li>10.1. Reactivity <ul> <li>No hazardous reaction when handled and stored according to provisions.</li> </ul> </li> <li>10.2. Chemical stability <ul> <li>The product is stable under storage at normal ambient temperatures.</li> </ul> </li> <li>10.3. Possibility of hazardous reactions.</li> <li>10.4. Conditions to avoid <ul> <li>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> </ul> </li> <li>10.4. Conditions to avoid <ul> <li>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> </ul> </li> <li>10.5. Incompatible materials <ul> <li>No information available.</li> </ul> </li> <li>10.6. Hazardous decomposition products <ul> <li>In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOX).</li> </ul> </li> <li>SECTION 11: Toxicological information <ul> <li>11.1. Information on toxicological effects</li> <li>Acute toxicity</li> <li>Based on available data, the classification criteria are not met.</li> <li>ATEmix calculated: <ul> <li>oral: &gt; 2000 mg/kg</li> <li>dermal: &gt; 2000 mg/kg</li> <li>In halation (vapour): &gt;20 mg/L (4 h)</li> </ul> </li> </ul></li></ul></li></ul> | Viscosity / kinematic:                                                                                                                                                                                                                                                                                                                                                              | not determined                                                                                                        |              |
| No information available.  SECTION 10: Stability and reactivity  10.1. Reactivity No hazardous reaction when handled and stored according to provisions.  10.2. Chemical stability The product is stable under storage at normal ambient temperatures.  10.3. Possibility of hazardous reactions No known hazardous reactions.  10.4. Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  10.5. Incompatible materials No information available.  10.6. Hazardous decomposition products In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).  SECTION 11: Toxicological information  11.1. Information on toxicological effects Acute toxicity Based on available data, the classification criteria are not met. ATEmix calculated: oral: > 2000 mg/kg dermal: > 2000 mg/kg inhalation (vapour): > 20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                                                                        | · ·                                                                                                                                                                                                                                                                                                                                                                                 | not determined                                                                                                        |              |
| SECTION 10: Stability and reactivity         10.1. Reactivity         No hazardous reaction when handled and stored according to provisions.         10.2. Chemical stability         The product is stable under storage at normal ambient temperatures.         10.3. Possibility of hazardous reactions         No known hazardous reactions.         10.4. Conditions to avoid         Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.         10.5. Incompatible materials         No information available.         10.6. Hazardous decomposition products         In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).         SECTION 11: Toxicological information         11.1. Information on toxicological effects         Acute toxicity         Based on available data, the classification criteria are not met.         ATEmix calculated:         oral: > 2000 mg/kg         dermal: > 2000 mg/kg         Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                            | 9.2. Other information                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                       |              |
| 10.1. Reactivity         No hazardous reaction when handled and stored according to provisions.         10.2. Chemical stability         The product is stable under storage at normal ambient temperatures.         10.3. Possibility of hazardous reactions         10.4. Conditions to avoid         Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.         10.5. Incompatible materials         No information available.         10.6. Hazardous decomposition products         In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).         SECTION 11: Toxicological information         11.1. Information on toxicological effects         Acute toxicity         Based on available data, the classification criteria are not met.         ATEmix calculated:         oral: > 2000 mg/kg         dermal: > 2000 mg/kg         Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                               | No information available.                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                       |              |
| No hazardous reaction when handled and stored according to provisions.<br>10.2. Chemical stability<br>The product is stable under storage at normal ambient temperatures.<br>10.3. Possibility of hazardous reactions<br>No known hazardous reactions.<br>10.4. Conditions to avoid<br>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>10.5. Incompatible materials<br>No information available.<br>10.6. Hazardous decomposition products<br>In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).<br>SECTION 11: Toxicological information<br>11.1. Information on toxicological effects<br>Acute toxicity<br>Based on available data, the classification criteria are not met.<br>ATEmix calculated:<br>oral: > 2000 mg/kg<br>Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SECTION 10: Stability and reactivity                                                                                                                                                                                                                                                                                                                                                | ,                                                                                                                     |              |
| 10.2. Chemical stability         The product is stable under storage at normal ambient temperatures.         10.3. Possibility of hazardous reactions         No known hazardous reactions.         10.4. Conditions to avoid         Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.         10.5. Incompatible materials         No information available.         10.6. Hazardous decomposition products         In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).         SECTION 11: Toxicological information         11.1. Information on toxicological effects         Acute toxicity         Based on available data, the classification criteria are not met.         ATEmix calculated:         oral: > 2000 mg/kg         dermal: > 2000 mg/kg         Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10.1. Reactivity                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                       |              |
| The product is stable under storage at normal ambient temperatures. <b>10.3. Possibility of hazardous reactions</b> No known hazardous reactions. <b>10.4. Conditions to avoid</b> Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. <b>10.5. Incompatible materials</b> No information available. <b>10.6. Hazardous decomposition products</b> In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx). <b>SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity</b> Based on available data, the classification criteria are not met.         ATEmix calculated:         oral: > 2000 mg/kg         dermal: > 2000 mg/kg         Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                     | led and stored according to provisions.                                                                               |              |
| 10.3. Possibility of hazardous reactions.         No known hazardous reactions.         10.4. Conditions to avoid<br>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.         10.5. Incompatible materials<br>No information available.         10.6. Hazardous decomposition products<br>In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).         SECTION 11: Toxicological information         11.1. Information on toxicological effects         Acute toxicity<br>Based on available data, the classification criteria are not met.<br>ATEmix calculated:<br>oral: > 2000 mg/kg<br>dermal: > 2000 mg/kg<br>Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10.2. Chemical stability                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                       |              |
| No known hazardous reactions.<br>10.4. Conditions to avoid<br>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>10.5. Incompatible materials<br>No information available.<br>10.6. Hazardous decomposition products<br>In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).<br>SECTION 11: Toxicological information<br>11.1. Information on toxicological effects<br>Acute toxicity<br>Based on available data, the classification criteria are not met.<br>ATEmix calculated:<br>oral: > 2000 mg/kg<br>dermal: > 2000 mg/kg<br>Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                                                     |              |
| 10.4. Conditions to avoid         Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.         10.5. Incompatible materials         No information available.         10.6. Hazardous decomposition products         In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).         SECTION 11: Toxicological information         11.1. Information on toxicological effects         Acute toxicity         Based on available data, the classification criteria are not met.         ATEmix calculated:         oral: > 2000 mg/kg         dermal: > 2000 mg/kg         Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                       |              |
| Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br><b>10.5. Incompatible materials</b><br>No information available.<br><b>10.6. Hazardous decomposition products</b><br>In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).<br><b>SECTION 11: Toxicological information</b><br><b>11.1. Information on toxicological effects</b><br><b>Acute toxicity</b><br>Based on available data, the classification criteria are not met.<br>ATEmix calculated:<br>oral: > 2000 mg/kg<br>dermal: > 2000 mg/kg<br>Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                       |              |
| 10.5. Incompatible materials<br>No information available.         10.6. Hazardous decomposition products<br>In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).         SECTION 11: Toxicological information         11.1. Information on toxicological effects         Acute toxicity<br>Based on available data, the classification criteria are not met.<br>ATEmix calculated:<br>oral: > 2000 mg/kg<br>dermal: > 2000 mg/kg<br>Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                       |              |
| No information available.<br><b>10.6. Hazardous decomposition products</b><br>In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).<br><b>SECTION 11: Toxicological information</b><br><b>11.1. Information on toxicological effects</b><br><b>Acute toxicity</b><br>Based on available data, the classification criteria are not met.<br>ATEmix calculated:<br>oral: > 2000 mg/kg<br>dermal: > 2000 mg/kg<br>Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                     | s, sparks, open names and other ignition sources. No smoking.                                                         |              |
| 10.6. Hazardous decomposition products         In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).         SECTION 11: Toxicological information         11.1. Information on toxicological effects         Acute toxicity         Based on available data, the classification criteria are not met.         ATEmix calculated:         oral: > 2000 mg/kg         dermal: > 2000 mg/kg         Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                       |              |
| In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).  SECTION 11: Toxicological information  11.1. Information on toxicological effects  Acute toxicity Based on available data, the classification criteria are not met. ATEmix calculated: oral: > 2000 mg/kg dermal: > 2000 mg/kg Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                       |              |
| 11.1. Information on toxicological effects         Acute toxicity         Based on available data, the classification criteria are not met.         ATEmix calculated:         oral: > 2000 mg/kg         dermal: > 2000 mg/kg         Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                     | ts                                                                                                                    |              |
| 11.1. Information on toxicological effects         Acute toxicity         Based on available data, the classification criteria are not met.         ATEmix calculated:         oral: > 2000 mg/kg         dermal: > 2000 mg/kg         Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10.6. Hazardous decomposition product                                                                                                                                                                                                                                                                                                                                               |                                                                                                                       |              |
| Acute toxicity<br>Based on available data, the classification criteria are not met.<br>ATEmix calculated:<br>oral: > 2000 mg/kg<br>dermal: > 2000 mg/kg<br>Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10.6. Hazardous decomposition product<br>In case of fire may be liberated: Ca                                                                                                                                                                                                                                                                                                       | arbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).                                                          |              |
| Based on available data, the classification criteria are not met.<br>ATEmix calculated:<br>oral: > 2000 mg/kg<br>dermal: > 2000 mg/kg<br>Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10.6. Hazardous decomposition product<br>In case of fire may be liberated: Ca<br>SECTION 11: Toxicological informat                                                                                                                                                                                                                                                                 | arbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).<br>t <b>ion</b>                                          |              |
| oral: > 2000 mg/kg<br>dermal: > 2000 mg/kg<br>Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10.6. Hazardous decomposition product<br>In case of fire may be liberated: Ca<br>SECTION 11: Toxicological informat<br>11.1. Information on toxicological effect                                                                                                                                                                                                                    | arbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).<br>t <b>ion</b>                                          |              |
| dermal: > 2000 mg/kg<br>Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10.6. Hazardous decomposition product<br>In case of fire may be liberated: Ca<br>SECTION 11: Toxicological informat<br>11.1. Information on toxicological effect<br>Acute toxicity                                                                                                                                                                                                  | arbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).<br>t <b>ion</b>                                          |              |
| Inhalation (vapour): >20 mg/L (4 h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10.6. Hazardous decomposition product<br>In case of fire may be liberated: Ca<br>SECTION 11: Toxicological informat<br>11.1. Information on toxicological effect<br>Acute toxicity<br>Based on available data, the class<br>ATEmix calculated:                                                                                                                                      | arbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx).<br>t <b>ion</b>                                          |              |
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#### according to UK REACH Regulation

replaces vers.frm:24.03.2021

MIXOL® Nr. 32 Oxyd-Brillant-Blau

Page 7 of 11

Revision date: 22.04.2022

Product code: PES83

| CAS No     | Chemical name                                                                                        |               |           |         |              |                |
|------------|------------------------------------------------------------------------------------------------------|---------------|-----------|---------|--------------|----------------|
|            | Exposure route                                                                                       | Dose          |           | Species | Source       | Method         |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                                             |               |           |         |              |                |
|            | oral                                                                                                 | LD50<br>mg/kg | 670 - 784 | Rat     | Manufacturer | OECD 401       |
|            | dermal                                                                                               | LD50<br>mg/kg | > 2000    | Rat     | Manufacturer |                |
|            | inhalation vapour                                                                                    | ATE           | 0,5 mg/l  |         |              |                |
|            | inhalation (4 h)<br>dust/mist                                                                        | LC50          | 0,5 mg/l  | Rat     | Manufacturer | OPPTS 870.1300 |
| 55965-84-9 | 5-84-9 reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |               |           |         |              |                |
|            | oral                                                                                                 | LD50          | 64 mg/kg  | Rat     | Manufacturer |                |
|            | dermal                                                                                               | LD50<br>mg/kg | 92,4      | Rabbit  | Manufacturer |                |
|            | inhalation vapour                                                                                    | ATE           | 0,5 mg/l  |         |              |                |
|            | inhalation (4 h)<br>dust/mist                                                                        | LC50<br>mg/l  | 0,171     | Rat     | Manufacturer |                |

### Irritation and corrosivity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Result / Evaluation: non-irritant. (Rabbit) Method: OECD 404

Test was carried out with a similar formulation. (By analogy.)

Serious eye damage/eye irritation:

Result / Evaluation: non-irritant. (Rabbit) Method: OECD 405 Test was carried out with a similar formulation. (By analogy.)

### Sensitising effects

Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

# STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

The product is not: Ecotoxic.

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# MIXOL® Nr. 32 Oxyd-Brillant-Blau

Page 8 of 11

Revision date: 22.04.2022

Product code: PES83

| CAS No     | Chemical name                                                                                 |                                                          |          |           |                                        |              |          |
|------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------|----------|-----------|----------------------------------------|--------------|----------|
|            | Aquatic toxicity                                                                              | Dose                                                     |          | [h]   [d] | Species                                | Source       | Method   |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-                                                                     | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one |          |           |                                        |              |          |
|            | Acute algae toxicity                                                                          | ErC50<br>mg/l                                            | 0,155    | 72 h      | Selenastrum<br>capricornutum           | Manufacturer | OECD 201 |
|            | Fish toxicity                                                                                 | NOEC<br>mg/l                                             | 0,21     | 28 d      | Oncorhynchus mykiss<br>(Rainbow trout) | Manufacturer | OECD 215 |
|            | Acute bacteria toxicity                                                                       | (EC50                                                    | 23 mg/l) | 3 h       | Activated sludge                       | Manufacturer | OECD 209 |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |                                                          |          |           |                                        |              |          |
|            | Acute bacteria toxicity (EC50 7,92 3 h Activated sludge Manufacturer OECD 209 mg/l)           |                                                          |          |           | OECD 209                               |              |          |

# 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

# The product has not been tested.

Partition coefficient n-octanol/water

| CAS No     | Chemical name                                                                                 | Log Pow      |
|------------|-----------------------------------------------------------------------------------------------|--------------|
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | -0,71 - 0,75 |

BCF

| CAS No     | Chemical name                                                                                       | BCF  | Species                           | Source       |
|------------|-----------------------------------------------------------------------------------------------------|------|-----------------------------------|--------------|
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one;<br>1,2-benzisothiazolin-3-one                                         | 6,62 | Lepomis macrochirus<br>(Bluegill) | Manufacturer |
| 55965-84-9 | reaction mass of<br>5-chloro-2-methyl-2H-isothiazol-3-one<br>and 2-methyl-2H-isothiazol-3-one (3:1) | 3,6  |                                   | Manufacturer |

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.6. Other adverse effects

No information available.

#### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

| <u>14.1. UN number:</u>           | No dangerous good in sense of this transport regulation. |
|-----------------------------------|----------------------------------------------------------|
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |

according to UK REACH Regulation

# MIXOL® Nr. 32 Oxyd-Brillant-Blau

replaces vers.frm:24.03.2021 Revision date: 22.04.2022

Product code: PES83

Page 9 of 11

| <u>14.1. UN number:</u>                                                                                                                                                                                                                                                                                                  | No dangerous good in sense of this transport regulation.                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14.2. UN proper shipping name:                                                                                                                                                                                                                                                                                           | No dangerous good in sense of this transport regulation.                                                                                                                                                                                       |
| 14.3. Transport hazard class(es):                                                                                                                                                                                                                                                                                        | No dangerous good in sense of this transport regulation.                                                                                                                                                                                       |
| 14.4. Packing group:                                                                                                                                                                                                                                                                                                     | No dangerous good in sense of this transport regulation.                                                                                                                                                                                       |
| Marine transport (IMDG)                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                |
| 14.1. UN number:                                                                                                                                                                                                                                                                                                         | No dangerous good in sense of this transport regulation.                                                                                                                                                                                       |
| 14.2. UN proper shipping name:                                                                                                                                                                                                                                                                                           | No dangerous good in sense of this transport regulation.                                                                                                                                                                                       |
| 14.3. Transport hazard class(es):                                                                                                                                                                                                                                                                                        | No dangerous good in sense of this transport regulation.                                                                                                                                                                                       |
| 14.4. Packing group:                                                                                                                                                                                                                                                                                                     | No dangerous good in sense of this transport regulation.                                                                                                                                                                                       |
| Air transport (ICAO-TI/IATA-DGR)                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                |
| <u>14.1. UN number:</u>                                                                                                                                                                                                                                                                                                  | No dangerous good in sense of this transport regulation.                                                                                                                                                                                       |
| 14.2. UN proper shipping name:                                                                                                                                                                                                                                                                                           | No dangerous good in sense of this transport regulation.                                                                                                                                                                                       |
| 14.3. Transport hazard class(es):                                                                                                                                                                                                                                                                                        | No dangerous good in sense of this transport regulation.                                                                                                                                                                                       |
| 14.4. Packing group:                                                                                                                                                                                                                                                                                                     | No dangerous good in sense of this transport regulation.                                                                                                                                                                                       |
| 14.5. Environmental hazards                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                |
| ENVIRONMENTALLY HAZARDOUS:                                                                                                                                                                                                                                                                                               | No                                                                                                                                                                                                                                             |
| 14.6. Special precautions for user                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                |
| No information available.                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                |
| 14.7. Transport in bulk according to Annex                                                                                                                                                                                                                                                                               | I of Marpol and the IBC Code                                                                                                                                                                                                                   |
| 14.7. Transport in bulk according to Annex<br>not applicable                                                                                                                                                                                                                                                             | <u>k II of Marpol and the IBC Code</u>                                                                                                                                                                                                         |
| not applicable                                                                                                                                                                                                                                                                                                           | <u>c II of Marpol and the IBC Code</u>                                                                                                                                                                                                         |
| not applicable SECTION 15: Regulatory information                                                                                                                                                                                                                                                                        | <u>c II of Marpol and the IBC Code</u><br>ulations/legislation specific for the substance or mixture                                                                                                                                           |
| not applicable SECTION 15: Regulatory information                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                |
| not applicable<br>SECTION 15: Regulatory information<br>15.1. Safety, health and environmental reg                                                                                                                                                                                                                       | ulations/legislation specific for the substance or mixture                                                                                                                                                                                     |
| not applicable<br>SECTION 15: Regulatory information<br>15.1. Safety, health and environmental regulatory information<br>Restrictions on use (REACH, annex XVII)<br>Entry 75<br>2004/42/EC (VOC):                                                                                                                        | ulations/legislation specific for the substance or mixture                                                                                                                                                                                     |
| not applicable<br>SECTION 15: Regulatory information<br>15.1. Safety, health and environmental reg<br>EU regulatory information<br>Restrictions on use (REACH, annex XVII)<br>Entry 75                                                                                                                                   | ulations/legislation specific for the substance or mixture                                                                                                                                                                                     |
| not applicable<br>SECTION 15: Regulatory information<br>15.1. Safety, health and environmental reg<br>EU regulatory information<br>Restrictions on use (REACH, annex XVII)<br>Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU                                                                       | ulations/legislation specific for the substance or mixture<br>):<br>< 0,1 %                                                                                                                                                                    |
| not applicable<br>SECTION 15: Regulatory information<br>15.1. Safety, health and environmental regulatory information<br>Restrictions on use (REACH, annex XVII)<br>Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU<br>(SEVESO III):                                                                | ulations/legislation specific for the substance or mixture<br>):<br>< 0,1 %                                                                                                                                                                    |
| not applicable<br>SECTION 15: Regulatory information<br>15.1. Safety, health and environmental regulatory information<br>Restrictions on use (REACH, annex XVII)<br>Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU<br>(SEVESO III):<br>National regulatory information                             | ulations/legislation specific for the substance or mixture<br>):<br>< 0,1 %<br>Not subject to 2012/18/EU (SEVESO III)<br>Observe restrictions to employment for juveniles according to the 'juvenile                                           |
| not applicable<br>SECTION 15: Regulatory information<br>15.1. Safety, health and environmental regulatory information<br>Restrictions on use (REACH, annex XVII)<br>Entry 75<br>2004/42/EC (VOC):<br>Information according to 2012/18/EU<br>(SEVESO III):<br>National regulatory information<br>Employment restrictions: | ulations/legislation specific for the substance or mixture<br>):<br>< 0,1 %<br>Not subject to 2012/18/EU (SEVESO III)<br>Observe restrictions to employment for juveniles according to the 'juvenile<br>work protection guideline' (94/33/EC). |

# Abbreviations and acronyms

CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations

according to UK REACH Regulation

| replaces v | vers.frm:24. | 03.2021 |
|------------|--------------|---------|
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Revision date: 22.04.2022

MIXOL® Nr. 32 Oxyd-Brillant-Blau Product code: PES83

Page 10 of 11

CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LC50: Lethal concentration, 50% LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) IMDG: International Maritime Code for Dangerous Goods EmS: Emergency Schedules MFAG: Medical First Aid Guide IATA: International Air Transport Association ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Verv High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

## Relevant H and EUH statements (number and full text)

| H301   | Toxic if swallowed.                                                                                                                                                                                        |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H302   | Harmful if swallowed.                                                                                                                                                                                      |
| H310   | Fatal in contact with skin.                                                                                                                                                                                |
| H314   | Causes severe skin burns and eye damage.                                                                                                                                                                   |
| H315   | Causes skin irritation.                                                                                                                                                                                    |
| H317   | May cause an allergic skin reaction.                                                                                                                                                                       |
| H318   | Causes serious eye damage.                                                                                                                                                                                 |
| H330   | Fatal if inhaled.                                                                                                                                                                                          |
| H400   | Very toxic to aquatic life.                                                                                                                                                                                |
| H410   | Very toxic to aquatic life with long lasting effects.                                                                                                                                                      |
| H411   | Toxic to aquatic life with long lasting effects.                                                                                                                                                           |
| H412   | Harmful to aquatic life with long lasting effects.                                                                                                                                                         |
| EUH071 | Corrosive to the respiratory tract.                                                                                                                                                                        |
| EUH208 | Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5<br>-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce<br>an allergic reaction. |

EUH210 Safety data sheet available on request.

## **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

according to UK REACH Regulation

replaces vers.frm:24.03.2021 Revision date: 22.04.2022

MIXOL® Nr. 32 Oxyd-Brillant-Blau Product code: PES83

Page 11 of 11

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)