according to UK REACH Regulation

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

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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:	info@mixol.de	
e-mail (Contact person):	Technik@mixol.de	
Internet:	www.mixol.de	
Responsible Department:	Technik	
1.4. Emergency telephone	Emergency CONTACT (24 h) GBK Gmb	0H +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

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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		15 - < 20 %
	500-236-9			
	Skin Irrit. 2, Aquatic Acute 1, Aquatic Chronic 3; H315 H400 H412			
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 Chronic 2; H330 H302 H315 H318	t. 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	
	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).

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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

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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 bw/day
Consumer DN	EL, long-term	inhalation	systemic	1,2 mg/m³
Consumer DN	Consumer DNEL, long-term		systemic	0,345 mg/kg 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 ³
Consumer DN	EL, long-term	inhalation	local	0,02 mg/m ³
Consumer DN	EL, acute	inhalation	local	0,04 mg/m ³
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

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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 m		1,03 mg/l		
Soil		3 mg/kg		
55965-84-9	65-84-9 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 (intermittent releases)		0,00339 mg/l		
Marine water		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-organisms in sewage treatment plants (STP) 0,23 r		0,23 mg/l		
Soil 0,01 r		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.

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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/cm³ 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.

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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 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-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 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

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.

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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	Chemical name					
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-	one; 1,2-ber	nzisothiazolin	-3-one		_	
	Acute algae toxicity	ErC50 mg/l	0,155		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-isothiazol-3-one and 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.

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; 1,2-benzisothiazolin-3-one	6,62	Lepomis macrochirus (Bluegill)	Manufacturer
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one 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.

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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): Entry 3, Entry 75	
2004/42/EC (VOC):	< 50 %
Information according to 2012/18/EU (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

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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 acronyins
	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

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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 produ 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.)