according to UK REACH Regulation

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### 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

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 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

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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		10 - < 15 %
	500-236-9			
	Skin Irrit. 2, Aquatic Acute 1, Aquat	ic Chronic 3; H315 H400 H412		
112-02-7	Cetrimonium chloride			
	203-928-6			
	Acute Tox. 3, Acute Tox. 4, Skin Co 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 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-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.

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#### 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

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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
-	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/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 DNI	EL, long-term	dermal	systemic	2,83 mg/kg bw/day
Consumer DNI	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 DNI	EL, long-term	inhalation	systemic	1,2 mg/m³
Consumer DNI	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	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/m³
Consumer DNEL, long-term		inhalation	local	0,02 mg/m³
Consumer DNEL, acute		inhalation	local	0,04 mg/m³
Consumer DNI	EL, long-term	oral	systemic	0,11 mg/kg bw/day
Consumer DNI	EL, acute	oral	systemic	0,09 mg/kg bw/day

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#### **PNEC values**

CAS No	Substance	
Environmen	tal compartment	Value
112-02-7	Cetrimonium chloride	·
Freshwater		0,00063 mg/l
Freshwater	(intermittent releases)	0,0008 mg/l
Marine wate	r	0,000068 mg/l
Freshwater	sediment	9,27 mg/kg
Marine sedi	ment	0,927 mg/kg
Micro-organ	isms 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)	0,0011 mg/l
Marine wate	r	0,000403 mg/l
Marine wate	er (intermittent releases)	0,0011 mg/l
Freshwater	sediment	0,0499 mg/kg
Marine sedi	ment	0,00499 mg/kg
Micro-organ	isms 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	(intermittent releases)	0,00339 mg/l
Marine wate	r	0,00339 mg/l
Marine wate	er (intermittent releases)	0,00339 mg/l
Freshwater	sediment	0,027 mg/kg
Marine sedi	ment	0,027 mg/kg
Micro-organ	isms 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.

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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:

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: Decomposition temperature: > 100 °C not determined Vapour pressure: 1,65 g/cm<sup>3</sup> Density (at 20 °C): Water solubility: miscible

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:

Viscosity / kinematic:

Relative vapour density:

not determined

not determined

#### 9.2. Other information

No information available.

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

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### 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(2H)	one; 1,2-ber	nzisothiazolir	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-2l	H-isothiazol-	3-one and 2-methyl-2H-isc	othiazol-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

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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 0,08 mg/l			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	21 d	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-2l	H-isothiazol-3	3-one and	d 2-methyl-2H-isothiazol-	3-one (3:1)	
						Manufacturer	OECD 209

## 12.2. Persistence and degradability

The product has not been tested.

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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; 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.

## **SECTION 14: Transport information**

## Land transport (ADR/RID)

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.

### Inland waterways transport (ADN)

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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.
No dangerous good in sense of this transport regulation.
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)

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.

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): < 34 %

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

#### 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

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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	l oxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
<b>⊔</b> 31 <i>1</i>	Causes severe skin hurns

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.)