



Trade name: Marabu Silk 045, 50 ml

Version: 6 /

Date revised: 30.01.2020

Substance number: 178005045

Replaces Version: 5 / WORLD

Print date: 31.01.20

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

### **1.1. Product identifier**

Marabu Silk 045, 50 ml

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

#### **Use of the substance/preparation**

Paint

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

#### **Address/Manufacturer**

Marabu GmbH & Co. KG  
Asperger Strasse 4  
71732 Tamm  
Germany

Telephone no. +49-7141/691-0

Fax no. +49-7141/691-147

Information provided by / telephone Department product safety

E-mail address of person responsible PRSI@marabu.com

for this SDS

#### **Importer -**

S&S Wholesale Pty. Limited

18/10 Pioneer Avenue,

Thornleigh NSW 2120

Tel: 1300 731 529

Fax: 1300 739 715

#### **Emergency Contact:**

S&S Wholesale Pty. Limited

Tel: 1300 731 529

Fax: 1300 739 715

### **1.4. Emergency telephone number**

(+49) (0)621-60-43333

## **SECTION 2: Hazards identification \*\*\***

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

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

EUH208 Contains  
\*\*\*

2-Methyl-2H-isothiazol-3-one, A mixture of:

5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and

2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1), May produce an allergic reaction.

#### **Supplemental information**

#### **Labelling according to regulation (EU) No 528/2012**

Contains a biocidal product: A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1)

### **2.3. Other hazards**

No special hazards have to be mentioned.

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

### **3.2. Mixtures**

#### **Chemical characterization**

Paint based on acrylic resins and on water

#### **Hazardous ingredients \*\*\***



Trade name: Marabu Silk 045, 50 ml

Version: 6 /

Date revised: 30.01.2020

Substance number: 178005045

Replaces Version: 5 / WORLD

Print date: 31.01.20

**Bronopol (INN)**

CAS No. 52-51-7  
 EINECS no. 200-143-0  
 Registration no. 01-2119980938-15  
 Concentration >= 0,01 < 0,1 %

## Classification (Regulation (EC) No. 1272/2008)

Eye Dam. 1 H318  
 Skin Irrit. 2 H315  
 STOT SE 3 H335  
 Acute Tox. 4 H302  
 Acute Tox. 4 H312  
 Aquatic Acute 1 H400  
 Aquatic Chronic 1 H410

## Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1 H400 M = 10  
 Aquatic Chronic 1 H410 M = 1

**Pyrithione zinc**

CAS No. 13463-41-7  
 EINECS no. 236-671-3  
 Registration no. 01-2119511196-46  
 Concentration >= 0,01 < 0,025 %

## Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 3 H301  
 Acute Tox. 3 H331  
 Eye Dam. 1 H318  
 Aquatic Acute 1 H400  
 Aquatic Chronic 1 H410

## Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1 H400 M = 100  
 Aquatic Chronic 1 H410 M = 10

**Pyridin-2-thiol-1-oxide, sodium salt**

CAS No. 3811-73-2  
 EINECS no. 223-296-5  
 Concentration >= 0,001 < 0,1 %

## Classification (Regulation (EC) No. 1272/2008)

Eye Dam. 1 H318  
 Acute Tox. 4 H302  
 Acute Tox. 4 H332  
 Aquatic Acute 1 H400  
 Aquatic Chronic 2 H411

## Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1 H400 M = 100

**A mixture of: 5-Chloro-2-methyl-2H-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1)**

CAS No. 55965-84-9  
 Concentration < 0,001 %

## Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 2 H330

# Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Marabu Silk 045, 50 ml

Version: 6 /

Date revised: 30.01.2020

Substance number: 178005045

Replaces Version: 5 / WORLD

Print date: 31.01.20

Aquatic Chronic 1	H410
Aquatic Acute 1	H400
Skin Sens. 1A	H317
Skin Corr. 1C	H314
Acute Tox. 2	H310
Acute Tox. 3	H301

## Concentration limits (Regulation (EC) No. 1272/2008)

Skin Corr. 1C	H314	>= 0,6
Eye Irrit. 2	H319	<= 0,06 < 0,6
Skin Irrit. 2	H315	<= 0,06 < 0,6
Skin Sens. 1	H317	>= 0,0015
Aquatic Acute 1	H410	M = 100
Aquatic Chronic 1	H410	M = 100

## 2-Methyl-2H-isothiazol-3-one

CAS No. 2682-20-4

EINECS no. 220-239-6

Concentration < 0,0015 %

## Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 3	H301
Acute Tox. 2	H330
Skin Corr. 1B	H314
Eye Dam. 1	H318
Aquatic Acute 1	H400
Skin Sens. 1A	H317
Aquatic Chronic 1	H410
Acute Tox. 3	H311

## Concentration limits (Regulation (EC) No. 1272/2008)

Skin Sens. 1A	H317	>= 0,0015
Aquatic Acute 1	H400	M = 10

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### After skin contact

Wash with plenty of water and soap. Do NOT use solvents or thinners.

#### After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

#### After ingestion

Rinse mouth thoroughly with water. If larger amounts are swallowed or in the event of symptoms take medical treatment.

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

Until now no symptoms known so far.

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

#### Hints for the physician / treatment

Treat symptomatically

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media



Trade name: Marabu Silk 045, 50 ml

Version: 6 /

Date revised: 30.01.2020

Substance number: 178005045

Replaces Version: 5 / WORLD

Print date: 31.01.20

### Suitable extinguishing media

Carbon dioxide, Foam, Sand, Water

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

In the event of fire the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); dense black smoke

### 5.3. Advice for firefighters

#### Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

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

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

No particular measures required.

### 6.2. Environmental precautions

No particular measures required.

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

Clean preferably with a detergent - avoid use of solvents.

### 6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

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

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid skin and eye contact. Smoking, eating and drinking shall be prohibited in application area.

#### Advice on protection against fire and explosion

No special measures required.

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

#### Requirements for storage rooms and vessels

Store in frostfree conditions.

### 7.3. Specific end use(s)

Paint

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

### 8.1. Control parameters

#### Other information

There are not known any further control parameters.

#### Derived No/Minimal Effect Levels (DNEL/DMEL)

##### Bronopol (INN)

Type of value	Derived No Effect Level (DNEL)
Reference group	Worker
Duration of exposure	Long term
Route of exposure	inhalative
Mode of action	Systemic effects
Concentration	4,1

mg/m<sup>3</sup>

Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Marabu Silk 045, 50 ml

Version: 6 /

Date revised: 30.01.2020

Substance number: 178005045

Replaces Version: 5 / WORLD

Print date: 31.01.20

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	12,3	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	4,2	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	4,2	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	2,3	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	7	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Local effects	
Concentration	13	µg/cm <sup>2</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	dermal	
Mode of action	Local effects	
Concentration	13	µg/cm <sup>2</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1,2	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	

Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Marabu Silk 045, 50 ml

Version: 6 /

Date revised: 30.01.2020

Substance number: 178005045

Replaces Version: 5 / WORLD

Print date: 31.01.20

Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	3,7	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1,3	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1,3	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	1,4	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	4,2	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Local effects	
Concentration	8	µg/cm <sup>2</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	dermal	
Mode of action	Local effects	
Concentration	8	µg/cm <sup>2</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	0,35	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	oral	



Trade name: Marabu Silk 045, 50 ml

Version: 6 /

Date revised: 30.01.2020

Substance number: 178005045

Replaces Version: 5 / WORLD

Print date: 31.01.20

Mode of action	Systemic effects	
Concentration	1,1	mg/kg/d

**Predicted No Effect Concentration (PNEC)**

**Bronopol (INN)**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,01	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,001	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,003	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	0,43	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,041	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,003	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,5	mg/kg

**8.2. Exposure controls**

**Exposure controls**

Provide adequate ventilation.

**SECTION 9: Physical and chemical properties**

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

<b>Form</b>	liquid
<b>Colour</b>	coloured
<b>Odour</b>	odourless
<b>Odour threshold</b>	
Remarks	No data available
<b>pH value</b>	
Value	8 to 10
Temperature	20 °C
Method	WTW PH 340
<b>Melting point</b>	
Remarks	not determined
<b>Freezing point</b>	
Remarks	not determined



Trade name: Marabu Silk 045, 50 ml

Version: 6 /

Date revised: 30.01.2020

Substance number: 178005045

Replaces Version: 5 / WORLD

Print date: 31.01.20

**Initial boiling point and boiling range**

Value	appr. 100		°C
Pressure	1.013	hPa	
Source	Literature value		

**Flash point**

Remarks Not applicable

**Evaporation rate (ether = 1) :**

Remarks not determined

**Flammability (solid, gas)**

Not applicable

**Upper/lower flammability or explosive limits**

Remarks not determined

**Vapour pressure**

Value	appr. 23		hPa
Temperature	20	°C	
Method	Value taken from the literature		

**Vapour density**

Remarks not determined

**Density**

Value	1,020		g/cm <sup>3</sup>
Temperature	20	°C	
Method	DIN EN ISO 2811		

**Solubility in water**

Remarks miscible

**Ignition temperature**

Remarks not determined

**Viscosity**

Remarks	
Remarks	not determined

**9.2. Other information****Other information**

None known

**SECTION 10: Stability and reactivity****10.1. Reactivity**

None

**10.2. Chemical stability**

No hazardous reactions known.

**10.3. Possibility of hazardous reactions**

No hazardous reactions known.

**10.4. Conditions to avoid**

No hazardous reactions known.

**10.5. Incompatible materials**

None

**10.6. Hazardous decomposition products**

No hazardous decomposition products known.





Trade name: Marabu Silk 045, 50 ml

Version: 6 /

Date revised: 30.01.2020

Substance number: 178005045

Replaces Version: 5 / WORLD

Print date: 31.01.20

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute oral toxicity**

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

#### **Acute oral toxicity (Components)**

##### **Pyrithione zinc**

Species	Rats (male/female)	
LD50	269	mg/kg
Method	OECD 401	

#### **Acute dermal toxicity**

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

#### **Acute inhalational toxicity**

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

#### **Acute inhalative toxicity (Components)**

##### **Pyrithione zinc**

Species	rat	
LC50	0,84	mg/l
Administration/Form	Dust/Mist	
Method	OECD 403	

#### **Skin corrosion/irritation**

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

#### **Serious eye damage/irritation**

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

#### **Sensitization**

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

#### **Mutagenicity**

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

#### **Reproductive toxicity**

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

#### **Carcinogenicity**

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

#### **Specific Target Organ Toxicity (STOT)**

##### **Single exposure**

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

##### **Repeated exposure**

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

#### **Aspiration hazard**

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

#### **Experience in practice**

Provided all the recommended protective and safety precautions are taken, experience shows that no risk to health can be expected.

#### **Other information**

There are no data available on the mixture itself.

The mixture has been assessed following the additivity method of the CLP Regulation (EC) No 1272/2008 and classified for toxicological hazards accordingly.



Trade name: Marabu Silk 045, 50 ml

Version: 6 /

Date revised: 30.01.2020

Substance number: 178005045

Replaces Version: 5 / WORLD

Print date: 31.01.20

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

#### **General information**

There are no data available on the mixture itself. Do not allow to enter drains or water courses. The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as dangerous for the environment.

#### **Fish toxicity (Components)**

##### **Pyrithione zinc**

Species	rainbow trout ( <i>Oncorhynchus mykiss</i> )		
LC50	0,14		mg/l
Duration of exposure	96	h	

##### **Bronopol (INN)**

Species	rainbow trout ( <i>Oncorhynchus mykiss</i> )		
LC50	3		mg/l
Duration of exposure	96	h	
Method	OECD 203		

##### **Bronopol (INN)**

Species	rainbow trout ( <i>Oncorhynchus mykiss</i> )		
NOEC	2,61		mg/l
Duration of exposure	28	d	
Method	OECD 203		

##### **A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1)**

Species	rainbow trout ( <i>Oncorhynchus mykiss</i> )		
LC50	0,188		mg/l
Duration of exposure	96	h	

#### **Daphnia toxicity (Components)**

##### **Pyrithione zinc**

Species	Daphnia magna		
EC50	0,05		mg/l
Duration of exposure	48	h	

##### **Bronopol (INN)**

Species	Daphnia magna		
EC50	1,04		mg/l
Duration of exposure	48	h	
Method	OECD 202		

##### **Bronopol (INN)**

Species	Daphnia magna		
NOEC	0,06		mg/l
Duration of exposure	21	d	
Method	OECD 211		

##### **A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1)**

Species	Daphnia magna		
EC50	0,126		mg/l
Duration of exposure	48	h	

#### **Algae toxicity (Components)**

##### **Pyrithione zinc**

Species	Selenastrum capricornutum		
IC50	0,067		mg/l
Duration of exposure	72	h	



Trade name: Marabu Silk 045, 50 ml

Version: 6 /

Date revised: 30.01.2020

Substance number: 178005045

Replaces Version: 5 / WORLD

Print date: 31.01.20

**Bronopol (INN)**

Species	Pseudokirchneriella subcapitata	
EC50	0,068	mg/l
Duration of exposure	72	h
Method	OECD 201	

**Bronopol (INN)**

Species	Pseudokirchneriella subcapitata	
NOEC	0,0025	mg/l
Duration of exposure	72	h
Method	OECD 201	

**A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1)**

Species	Selenastrum capricornutum	
EC50	0,027	mg/l
Duration of exposure	72	h

**12.2. Persistence and degradability****General information**

There are no data available on the mixture itself.

**12.3. Bioaccumulative potential****General information**

There are no data available on the mixture itself.

**12.4. Mobility in soil****General information**

There are no data available on the mixture itself.

**12.5. Results of PBT and vPvB assessment****General information**

There are no data available on the mixture itself.

**12.6. Other adverse effects****General information**

There are no data available on the mixture itself.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

The product can be placed with other household refuse. Small residues in containers can be washed-out with water and put into the drainage system.

**Disposal recommendations for packaging**

Packaging that cannot be cleaned should be disposed off as product waste. Completely emptied packagings can be given for recycling.

**SECTION 14: Transport information**

**Safety data sheet in accordance with regulation (EC) No 1907/2006**

Trade name: Marabu Silk 045, 50 ml

Version: 6 /

Date revised: 30.01.2020

Substance number: 178005045

Replaces Version: 5 / WORLD

Print date: 31.01.20

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
<b>14.1. UN number</b>	The product does not constitute a hazardous substance in land transport.-	The product does not constitute a hazardous substance in sea transport.-	The product does not constitute a hazardous substance in air transport.-
<b>14.2. UN proper shipping name</b>	-	-	-
<b>14.3. Transport hazard class(es)</b>	-	-	-
Subsidiary risk		-	-
Label			
<b>14.4. Packing group</b>	-	-	-
Transport category	0		
<b>14.5. Environmental hazards</b>	-	no	-

**Information for all modes of transport****14.6. Special precautions for user**

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Other information****14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

no

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Other information**

The product does not contain substances of very high concern (SVHC).

**Other information**

All components are contained in the ECL inventory.

All components are contained in the DSL or NDSL inventory.

**15.2. Chemical safety assessment**

For this preparation a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Hazard statements listed in Chapter 3**

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.



Trade name: Marabu Silk 045, 50 ml

Version: 6 /

Date revised: 30.01.2020

Substance number: 178005045

Replaces Version: 5 / WORLD

Print date: 31.01.20

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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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.

**CLP categories listed in Chapter 3**

Acute Tox. 2	Acute toxicity, Category 2
Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Corr. 1C	Skin corrosion, Category 1C
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1A	Skin sensitization, Category 1A
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

**Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
 This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.  
 The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.  
 The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.  
 As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.  
 The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.