

**Safety data sheet**  
according to 1907/2006/EC, Article 31 and 2020/878/EU

Printing date 17.02.2023

Version number 5

Revision: 17.02.2023

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

**1.1 Product identifier**

Trade name: ISO-Cream "EWL2302" / "EWL2303", leadfree,  
Sn97Cu3; Sn96,5Ag3,5;  
Sn96,5Ag3Cu0,5; Sn95,5Ag3,8Cu0,7; Sn95,5Ag4Cu0,5



**UFI:**

Sn97Cu3: YCH8-K00V-R007-J3GG  
 Sn96,5Ag3,5: KJ8R-M2HW-J00E-QD0C  
 Sn96,5Ag3Cu0,5: 8N8R-4279-U00W-DQKE  
 Sn95,5Ag3,8Cu0,7: CR8R-M2WQ-500E-125G  
 Sn95,5Ag4Cu0,5: CR8R-M2WQ-500E-125G

**1.2 Relevant identified uses of the substance or mixture**

**and uses advised against**

*No further relevant information available.*

**Application of the substance / the mixture**

*Soldering flux*

*Brazing alloy*

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

**Manufacturer/Supplier:**

Felder GmbH  
 Im Lipperfeld 11  
 D-46047 Oberhausen

Tel.: +49 (0)208/ 85035-0

Fax.: +49 (0)208/ 26080

<http://www.felder.de>

e-mail: [info@felder.de](mailto:info@felder.de)

**Further information obtainable from:**

*lab*

*(mo-thu. 8:00 a.m. - 4:00 p.m./ fr. 8:00 a.m. - 1:00 p.m.)*

*email: [mprobst@felder.de](mailto:mprobst@felder.de)*

**1.4 Emergency telephone number:** +49 208 8503529

**EuPCs:** PC-TEC-24

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

*Eye Dam. 1 H318 Causes serious eye damage.*



GHS09 environment

*Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.*

**2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008

*The product is classified and labelled according to the CLP regulation.*

**Hazard pictograms**



GHS05 GHS09

**Signal word** Danger

**Hazard-determining components of labelling:**

Talgalkyldiaminethoxylat

**Hazard statements**

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P264 Wash thoroughly after handling.

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P273            Avoid release to the environment.  
 P280            Wear eye protection / face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310            Immediately call a POISON CENTER/doctor.  
 P501            Dispose of contents/container in accordance with local/regional/national/international regulations.

### Labelling of packages where the contents do not exceed 125 ml

#### Hazard pictograms



GHS05 GHS09

**Signal word** Danger

#### Hazard-determining components of labelling:

Talgalkyldiaminethoxylat

#### Hazard statements

H318 Causes serious eye damage.

#### Precautionary statements

P280            Wear eye protection / face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310            Immediately call a POISON CENTER/doctor.

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Description:** Mixture: consisting of the following components.

Dangerous components:		
CAS: 61790-85-0 NLP: 500-149-6	Talgalkyldiaminethoxylat  ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315	<5%
CAS: 112-34-5 EINECS: 203-961-6 Index number: 603-096-00-8 Reg.nr.: 01-2119475104-44	2-(2-butoxyethoxy)ethanol  ⚠ Eye Irrit. 2, H319	<5%
CAS: 102-71-6 EINECS: 203-049-8 Reg.nr.: <1t/year	Triethanolamine substance with a Community workplace exposure limit	<3%
CAS: 4767-03-7 EINECS: 225-306-3 Reg.nr.: <1t/year	2,2-bis(hydroxymethyl)propionic acid  ⚠ Eye Irrit. 2, H319; STOT SE 3, H335	<2.5%
CAS: 7440-22-4 EINECS: 231-131-3 Reg.nr.: 01-2119555669-21	silver substance with a Community workplace exposure limit	0-<5%
CAS: 7440-50-8 EINECS: 231-159-6 Index number: 029-024-00-X Reg.nr.: 01-2119480154-42	copper  ⚠ Aquatic Chronic 2, H411	0-<3%

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General information:** Take affected persons out into the fresh air.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

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**After skin contact:**

*After contact with the molten product, cool rapidly with cold water.  
Do not pull solidified product off the skin.  
Seek medical treatment.*

**After eye contact:** *Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.*

**After swallowing:**

*Rinse out mouth and then drink plenty of water.  
Seek medical treatment.*

**4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.*

**4.3 Indication of any immediate medical attention and special treatment needed**

*No further relevant information available.*

## SECTION 5: Firefighting measures

**5.1 Extinguishing media**

**Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. *Fight larger fires with water spray.*

**5.2 Special hazards arising from the substance or mixture** *No further relevant information available.*

**5.3 Advice for firefighters**

**Protective equipment:** *Do not inhale explosion gases or combustion gases.*

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures** *Ensure adequate ventilation*

**6.2 Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.*

**6.3 Methods and material for containment and cleaning up:**

*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*

*Ensure adequate ventilation.*

**6.4 Reference to other sections**

*See Section 7 for information on safe handling.*

*See Section 8 for information on personal protection equipment.*

*See Section 13 for disposal information.*

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

*Ensure that suitable extractors are available on processing machines*

*Ensure good ventilation/exhaustion at the workplace.*

*Prevent formation of aerosols.*

**Information about fire - and explosion protection:** *No special measures required.*

**7.2 Conditions for safe storage, including any incompatibilities****Storage:**

**Requirements to be met by storerooms and receptacles:** *No special requirements.*

**Information about storage in one common storage facility:** *Store away from foodstuffs.*

**Further information about storage conditions:**

*Prevent from drying out.*

*Keep container tightly sealed.*

*Protect from frost.*

*Store in a cool place.*

**Storage class:** 11

**7.3 Specific end use(s)** *No further relevant information available.*

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

<b>Ingredients with limit values that require monitoring at the workplace:</b>	
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<b>7440-31-5 tin</b>	<b>MAK (Germany)</b>
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<b>MAK (Germany)</b>	<i>vgl. Abschn. IIb</i>
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<b>OEL (Ireland)</b>	<i>Short-term value: 0.2** mg/m<sup>3</sup></i>
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	<i>Long-term value: 2 * 0.1** mg/m<sup>3</sup></i>
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	<i>IOELV, *metal, oxide, inorg. compds., **org. compds.</i>
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<b>112-34-5 2-(2-butoxyethoxy)ethanol</b>	
IOELV (EU)	Short-term value: 101.2 mg/m <sup>3</sup> , 15 ppm Long-term value: 67.5 mg/m <sup>3</sup> , 10 ppm
AGW (Germany)	Long-term value: 67 mg/m <sup>3</sup> , 10 ppm 1.5(I);EU, DFG, Y, 11
WEL (Great Britain)	Short-term value: 101.2 mg/m <sup>3</sup> , 15 ppm Long-term value: 67.5 mg/m <sup>3</sup> , 10 ppm
OEL (Ireland)	Short-term value: 101.2 mg/m <sup>3</sup> , 15 ppm Long-term value: 67.5 mg/m <sup>3</sup> , 10 ppm IOELV
<b>7440-22-4 silver</b>	
IOELV (EU)	Long-term value: 0.1 mg/m <sup>3</sup>
AGW (Germany)	Long-term value: 0.1 E mg/m <sup>3</sup> 8(II);DFG, EU
WEL (Great Britain)	Long-term value: 0.1 mg/m <sup>3</sup>
OEL (Ireland)	Long-term value: 0.1 mg/m <sup>3</sup> IOELV
<b>102-71-6 Triethanolamine</b>	
AGW (Germany)	Long-term value: 1 E mg/m <sup>3</sup> 1(I);DFG, Y
OEL (Ireland)	Long-term value: 5 mg/m <sup>3</sup>
<b>7440-50-8 copper</b>	
MAK (Germany)	Long-term value: 0.01 A mg/m <sup>3</sup> als Cu
WEL (Great Britain)	Short-term value: 2 ** mg/m <sup>3</sup> Long-term value: 0.2* 1 ** mg/m <sup>3</sup> *fume **dusts and mists (as Cu)
OEL (Ireland)	Long-term value: 0.2* 1 ** mg/m <sup>3</sup> *fume **dusts and mists

**Regulatory information**

MAK (Germany): MAK- und BAT-Liste

OEL (Ireland): 2021 CoP for the Safety, Health and Welfare at Work

IOELV (EU): (EU) 2019/1831

AGW (Germany): TRGS 900

WEL (Great Britain): EH40/2020

**recommended monitoring procedures in accordance with 2020/878/EU no. 8.1.2:**

112-34-5 2-(2-butoxyethoxy)ethanol: BIA 3509(D), OSHA PV2095(E)

102-71-6 2,2',2'' nitrilotriethanol: BIA 8872(D), NIOSH 3509(E)

7440-22-4 silver: ISO 15202(F, E), BIA 8600(D), NIOSH 7301(E)

7440-50-8 copper: BIA 7755 (D), NIOSH 7301(E), MétroPol Fiche 003(F), MTA/MA-025/A92(ESP)

7440-31-5 tin: NIOSH 7300, 7301, 7303(E), OSHA ID-121, ISO15202(E,F), MTA/MA-025/A92(ESP)

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls**

**Appropriate engineering controls** No further data; see item 7.

**Appropriate engineering controls:**

Ensure adequate ventilation.

Remove the fumes by means of suitable suction devices.

Ensure adequate ventilation.

Remove the fumes by suitable suction devices.

**Individual protection measures, such as personal protective equipment**

**General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

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**Hand protection***Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation***Material of gloves***Nitrile rubber, NBR**The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.**Recommended thickness of the material:  $\geq 0.4$  mm***Penetration time of glove material***The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.**The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions.**Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.**Value for the permeation: Level  $\leq 6$* **Eye/face protection***Tightly sealed goggles***Body protection:** Protective work clothing**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Colour:** Grey**Odour:** Characteristic**Odour threshold:** Not determined.**Melting point/freezing point:** 217-250 °C**Boiling point or initial boiling point and boiling range** Undetermined.**Flammability** Not applicable.**Lower and upper explosion limit****Lower:** Not determined.**Upper:** Not determined.**Flash point:** Not applicable.**Decomposition temperature:** Not determined.**pH** Not determined.**Viscosity:****Kinematic viscosity** Not determined.**Dynamic:** Not determined.**Solubility****water:** Not miscible or difficult to mix.**Partition coefficient n-octanol/water (log value)** Not determined.**Vapour pressure:** Not determined.**Density and/or relative density****Density:** Not applicable**Relative density** Not determined.**Vapour density** Not determined.**Particle characteristics** See item 3.**9.2 Other information****Appearance:****Form:** Pasty**Important information on protection of health and environment, and on safety.****Auto-ignition temperature:** Product is not selfigniting.**Explosive properties:** Product does not present an explosion hazard.**Solvent content:****Organic solvents:** 6.2 %**VOC (EC)** 6,20 %**Solids content:** 88.8 %**Change in condition****Evaporation rate** Not determined.

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**Information with regard to physical hazard classes**

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

**SECTION 10: Stability and reactivity**10.1 Reactivity *No further relevant information available.*

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: *No decomposition if used according to specifications.*10.3 Possibility of hazardous reactions *No dangerous reactions known.*10.4 Conditions to avoid *No further relevant information available.*10.5 Incompatible materials: *No further relevant information available.*10.6 Hazardous decomposition products: *Possible in traces.***SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**Acute toxicity *Based on available data, the classification criteria are not met.*

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 5,263-52,632 mg/kg (rat)

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

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation *Based on available data, the classification criteria are not met.*Germ cell mutagenicity *Based on available data, the classification criteria are not met.*Carcinogenicity *Based on available data, the classification criteria are not met.*Reproductive toxicity *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.*

## 11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

**SECTION 12: Ecological information****12.1 Toxicity**Aquatic toxicity: *No further relevant information available.*12.2 Persistence and degradability *No further relevant information available.*12.3 Bioaccumulative potential *No further relevant information available.*12.4 Mobility in soil *No further relevant information available.*

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### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

### 12.7 Other adverse effects

**Remark:** Harmful to fish

**Additional ecological information:**

**General notes:**

Harmful to aquatic organisms

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### European waste catalogue

16 03 03\*: inorganic wastes containing hazardous substances

HP14: Ecotoxic

cleaned plastic can:

15 01 02: plastic packaging

overpack:

15 01 01: paper and cardboard packaging

**Uncleaned packaging:** 15 01 10\*: packaging containing residues of or contaminated by hazardous substances

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agents:**

mechanical scratching, clean with alkaline soap solution and subsequent rinsing with ethanol or isopropanol.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR, IMDG, IATA

UN3077

### 14.2 UN proper shipping name

ADR

3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Talgalkyldiaminethoxylat, copper)

IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Talgalkyldiaminethoxylat, copper), MARINE POLLUTANT

IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Talgalkyldiaminethoxylat, copper)

### 14.3 Transport hazard class(es)

ADR, IMDG, IATA



Class

9 Miscellaneous dangerous substances and articles.

Label

9

### 14.4 Packing group

ADR, IMDG, IATA

III

### 14.5 Environmental hazards:

Marine pollutant:

No

Symbol (fish and tree)

Special marking (ADR):

Symbol (fish and tree)

Special marking (IATA):

Symbol (fish and tree)

### 14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

Hazard identification number (Kemler code):

90

EMS Number:

F-A,S-F

Stowage Category

A

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**Stowage Code** SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

**Transport/Additional information:**

**ADR**

**Limited quantities (LQ)**

5 kg

**Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

3

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special provision 375 (these substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR)

**IMDG**

**Limited quantities (LQ)**

5 kg

**Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

**IATA**

**Remarks:**

special provision A 197

(Air Waybill: „not restricted“)

**UN "Model Regulation":**

UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
SOLID, N.O.S. (TALGALKYLDIAMINETHOXYLAT, COPPER), 9,  
III

**SECTION 15: Regulatory information**

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

**Directive 2012/18/EU**

**Named dangerous substances - ANNEX I** None of the ingredients is listed.

**Seveso category E2** Hazardous to the Aquatic Environment

**Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

**Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

**REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)** None of the ingredients are listed.

**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 55

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

*None of the ingredients is listed.*

**REGULATION (EU) 2019/1148**

**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

*None of the ingredients is listed.*

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

*None of the ingredients is listed.*

**Regulation (EC) No 273/2004 on drug precursors**

*None of the ingredients is listed.*

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

*None of the ingredients is listed.*

**National regulations:**

**Information about limitation of use:** Employment restrictions concerning juveniles must be observed.

**Waterhazard class:** Water hazard class 3 (Self-assessment): extremely hazardous for water.

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**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**Reasons for changes:**

12.10.2015: section 1, 8 adaption to Regulation 453/2010/EG and 830/2015/EU  
section 15 Seveso III

08.03.2017: section 15, Abschnitt 1 (Anpassung DIN)

26.02.2020: section 1, 13

17.02.2023: section 1, 2, 3, 8, 11, 14, 15, 16

**Information referred to in Annex I, point 1.3.4.2 of Regulation 1272/2008/EC:**

**Relevant phrases**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

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.

**Contact:** Dr. M. Probst

**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

**Safety data sheet SD3079**

EU