Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31 and 2020/878/ EU

Printing date 19.04.2024 *Version number 7 (replaces version 6)* *Revision: 30.05.2023*

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

1.1 Product identifier
Trade name: Aluminium soft solder paste Sn97Cu3
Aluminiumweichlötpaste Sn97Cu3
UFI: *3TF9-50S1-S00Y-F6CM*

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
Brazing alloy
Flux

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
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

1.4 Emergency telephone number:
24 hr. emergency information:
Poison emergency call Berlin

"Giftnotruf Berlin"
Tel.: 0049-30-30686 790
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

Skin Corr. 1B *H314 Causes severe skin burns and eye damage.*
Eye Dam. 1 *H318 Causes serious eye damage.*


GHS07

STOT SE 3 *H335 May cause respiratory irritation.*

Aquatic Chronic 3 *H412 Harmful 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 GHS07

Signal word *Danger*

Hazard-determining components of labelling:
2-aminoethanol
2,2'-iminodiethanol

(Contd. on page 2)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31 and 2020/878/EU

Printing date 19.04.2024 *Version number 7 (replaces version 6)* *Revision: 30.05.2023*

Trade name: Aluminium soft solder paste Sn97Cu3
Aluminiumweichlötpaste Sn97Cu3

(Contd. of page 1)

fluoroboric acid
Hazard statements
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.
Precautionary statements
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
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: 141-43-5 *EINECS: 205-483-3* *Index number: 603-030-00-8* *Reg.nr.: 01-2119486455-28*	*2-aminoethanol* *Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Aquatic Chronic 3, H412* *Specific concentration limit: STOT SE 3; H335: C ≥ 5 %*	*<10%*
CAS: 111-42-2 *EINECS: 203-868-0* *Index number: 603-071-00-1* *Reg.nr.: 01-2119488930-28*	*2,2'-iminodiethanol* *STOT RE 2, H373; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315*	*<10%*
CAS: 16872-11-0 *EINECS: 240-898-3* *Index number: 009-010-00-X* *Reg.nr.: <1t/year*	*fluoroboric acid* *Skin Corr. 1B, H314* *Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 %* *Skin Irrit. 2; H315: 10 % ≤ C < 25 %* *Eye Irrit. 2; H319: 10 % ≤ C < 25 %*	*<10%*
CAS: 68139-49-6	*Fettalkoholethoxylat* *Eye Irrit. 2, H319*	*<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*	*<2.5%*
CAS: 7783-49-5 *EINECS: 232-001-9*	*zinc fluoride* *Acute Tox. 3, H301; Acute Tox. 4, H332; Skin Irrit. 2, H315*	*<2.5%*

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: *Immediately remove any clothing soiled by the product.*
After inhalation: *In case of unconsciousness place patient stably in side position for transportation.*
After skin contact:
Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.
Immediately wash with water and soap and rinse thoroughly.
After eye contact:
Protect unharmed eye.
Rinse opened eye for several minutes under running water. Then consult a doctor.

(Contd. on page 3)

Safety data sheet
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Printing date 19.04.2024 *Version number 7 (replaces version 6)* *Revision: 30.05.2023*

Trade name: Aluminium soft solder paste Sn97Cu3
Aluminiumweichlötpaste Sn97Cu3

(Contd. of page 2)

After swallowing: *Drink plenty of water and provide fresh air. Call for a doctor immediately.*
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: *Use fire extinguishing methods suitable to surrounding conditions.*
5.2 Special hazards arising from the substance or mixture *No further relevant information available.*
5.3 Advice for firefighters
Protective equipment: *No special measures required.*

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions: *Do not allow to enter sewers/ surface or ground water.*
6.3 Methods and material for containment and cleaning up:
Use neutralising agent.
Dispose contaminated material as waste according to section 13.
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
Thorough dedusting.
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: *Store only in the original receptacle.*
Information about storage in one common storage facility: *Store away from foodstuffs.*
Further information about storage conditions:
Protect from frost.
Keep container tightly sealed.
Storage class: *8 B*
7.3 Specific end use(s) *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
7440-31-5 tin	
MAK (Germany)	*vgl.Abschn.IIb*
OEL (Ireland)	*Short-term value: 0.2** mg/m³* *Long-term value: 2* 0.1** mg/m³* *IOELV,*metal, oxide, inorg.compds.,**org. compds.*
141-43-5 2-aminoethanol	
IOELV (EU)	*Short-term value: 7.6 mg/m³, 3 ppm* *Long-term value: 2.5 mg/m³, 1 ppm* *Skin*

(Contd. on page 4)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31 and 2020/878/EU

Printing date 19.04.2024 *Version number 7 (replaces version 6)* *Revision: 30.05.2023*

Trade name: Aluminium soft solder paste Sn97Cu3
Aluminiumweichlötpaste Sn97Cu3

(Contd. of page 3)

AGW (Germany)	*Long-term value: 0.5 mg/m³, 0.2 ppm* *1(I);DFG, EU, H, Y, Sh, 11*
WEL (Great Britain)	*Short-term value: 7.6 mg/m³, 3 ppm* *Long-term value: 2.5 mg/m³, 1 ppm* *Sk*
OEL (Ireland)	*Short-term value: 7.6 mg/m³, 3 ppm* *Long-term value: 2.5 mg/m³, 1 ppm* *Skin, IOELV*
111-42-2 2,2'-iminodiethanol	
AGW (Germany)	*Long-term value: 0.5 mg/m³, 0.11 ppm* *1(I);AGS, H, Sh, Y, 11, 6*
OEL (Ireland)	*Long-term value: 1* mg/m³, 0.2 ppm* **Inhalable fraction and vapour*
7440-50-8 copper	
MAK (Germany)	*Long-term value: 0.01 A mg/m³* *als Cu*
WEL (Great Britain)	*Short-term value: 2** mg/m³* *Long-term value: 0.2* 1** mg/m³* **fume **dusts and mists (as Cu)*
OEL (Ireland)	*Long-term value: 0.2* 1** mg/m³* **fume **dusts and mists*
7783-49-5 zinc fluoride	
IOELV (EU)	*Long-term value: 2.5 mg/m³* *as F*
AGW (Germany)	*Long-term value: 1 E mg/m³* *4(II);als Fluor berechnet; EU, DFG, Y, H*
WEL (Great Britain)	*Long-term value: 2.5 mg/m³* *as F*
OEL (Ireland)	*Long-term value: 2.5 mg/m³* *as F, IOELV*

Regulatory information
MAK (Germany): MAK- und BAT-Liste
OEL (Ireland): 2024 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:
141-43-5 2-aminoethanol: DFG 1(D, E), BIA 6120(D), OSHA PV 2111(E), NIOSH 3509, 2007(E)
111-42-2 2,2'-iminodiethanol: DFG 1(D, E), BIA 7052(D), OSHA PV 2018(E), NIOSH 3509(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)

Ingredients with biological limit values:	
7783-49-5 zinc fluoride	
BGW (Germany)	*7.0 mg/g Kreatinin* *Untersuchungsmaterial: Urin* *Probennahmezeitpunkt: Expositionsende bzw. Schichtende* *Parameter: Fluorid* *4.0 mg/g Kreatinin* *Untersuchungsmaterial: Urin* *Probennahmezeitpunkt: vor nachfolgender Schicht* *Parameter: Fluorid*

Regulatory information *BGW (Germany): TRGS 903*
Additional information: *The lists valid during the making were used as basis.*

8.2 Exposure controls
Appropriate engineering controls *No further data; see section 7.*
Appropriate engineering controls:
Ensure adequate ventilation.
Remove the fumes by means of suitable suction devices.

(Contd. on page 5)

Safety data sheet
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Printing date 19.04.2024 *Version number 7 (replaces version 6)* *Revision: 30.05.2023*

Trade name: Aluminium soft solder paste Sn97Cu3
Aluminiumweichlötpaste Sn97Cu3

(Contd. of page 4)

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: *filter ABEK*
Hand protection

Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves
Nitrile rubber, NBR
Butyl rubber, BR
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: ≥ 0.33 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 ≤ 6
As protection from splashes gloves made of the following materials are suitable: *Nitrile rubber, NBR*
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.*
Boiling point or initial boiling point and boiling range	*170 °C*
Flammability	*Not determined.*
Lower and upper explosion limit	
Lower:	*Not determined.*
Upper:	*Not determined.*
Flash point:	*Not applicable.*
Auto-ignition temperature:	*370 °C*
Decomposition temperature:	*Not determined.*
pH	*Not applicable.*
Viscosity:	
Kinematic viscosity	*Not applicable.*
Dynamic:	*Not applicable.*
Solubility	
water:	*Insoluble.*
Partition coefficient n-octanol/water (log value)	*Not determined.*
Vapour pressure:	*Not applicable.*
Density and/or relative density	
Density:	*Not determined.*
Relative density	*Not determined.*
Vapour density	*Not applicable.*

(Contd. on page 6)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31 and 2020/878/ EU

Printing date 19.04.2024 *Version number 7 (replaces version 6)* *Revision: 30.05.2023*

Trade name: Aluminium soft solder paste Sn97Cu3
Aluminiumweichlötpaste Sn97Cu3

(Contd. of page 5)

Particle characteristics
See section 3.

9.2 Other information

Appearance:	
Form:	*Pasty*
Important information on protection of health and environment, and on safety.	
Ignition temperature:	*Product is not selfigniting.*
Explosive properties:	*Product does not present an explosion hazard.*
Solvent content:	
Organic solvents:	*13.0 %*
Change in condition	
Evaporation rate	*Not applicable.*
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: *To avoid thermal decomposition do not overheat.*
10.3 Possibility of hazardous reactions *Develops corrosive gases/fumes.*
10.4 Conditions to avoid *No further relevant information available.*
10.5 Incompatible materials: *No further relevant information available.*
10.6 Hazardous decomposition products: *Corrosive gases/vapours*

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*	*>7,720 mg/kg (rat)*
Dermal	*LD50*	*10,724 mg/kg (rabbit)*
Inhalative	*LC50/4 h*	*72.3 mg/l*

Skin corrosion/irritation
Causes severe skin burns and eye damage.
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.*

(Contd. on page 7)

Safety data sheet
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Trade name: Aluminium soft solder paste Sn97Cu3
Aluminiumweichlötpaste Sn97Cu3

(Contd. of page 6)

Reproductive toxicity *Based on available data, the classification criteria are not met.*
STOT-single exposure
May cause respiratory irritation.
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.*
12.5 Results of PBT and vPvB assessment
PBT: *Not applicable.*
vPvB: *Not applicable.*
12.6 Endocrine disrupting properties *For information on endocrine disrupting properties see section 11.*
12.7 Other adverse effects
Additional ecological information:
General notes:
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even 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
06 04 05: wastes containing other heavy metals*
HP8: Corrosive

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:
Remove residues mechanically, clean the packaging with soap solution or with alcohol.

SECTION 14: Transport information

14.1 UN number or ID number
ADR, IMDG, IATA *UN1759*
14.2 UN proper shipping name
ADR *1759 CORROSIVE SOLID, N.O.S. mixture*
IMDG, IATA *CORROSIVE SOLID, N.O.S. mixture*
14.3 Transport hazard class(es)

ADR, IMDG, IATA

Class *8 Corrosive substances.*
Label *8*

(Contd. on page 8)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31 and 2020/878/ EU

Printing date 19.04.2024 *Version number 7 (replaces version 6)* *Revision: 30.05.2023*

Trade name: Aluminium soft solder paste Sn97Cu3
Aluminiumweichlötpaste Sn97Cu3

(Contd. of page 7)

14.4 Packing group	
ADR, IMDG, IATA	*III*
14.5 Environmental hazards:	
Marine pollutant:	*No*
14.6 Special precautions for user	*Warning: Corrosive substances.*
Hazard identification number (Kemler code):	*80*
EMS Number:	*F-A,S-B*
Segregation groups	*(SGG1) Acids, (SGG18) alkalis*
Stowage Category	*A*
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*
Transport category	*3*
Tunnel restriction code	*E*
IMDG	
Limited quantities (LQ)	*1 kg*
Excepted quantities (EQ)	*Code: E2* *Maximum net quantity per inner packaging: 30 g* *Maximum net quantity per outer packaging: 500 g*
UN "Model Regulation":	*UN 1759 CORROSIVE SOLID, N.O.S. MIXTURE, 8, 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.*
REGULATION (EU) 2019/1021 on persistent organic pollutants (POP) *None of the ingredients are included.*

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 2 (Self-assessment): hazardous for water.*
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.

(Contd. on page 9)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31 and 2020/878/EU

Printing date 19.04.2024 *Version number 7 (replaces version 6)* *Revision: 30.05.2023*

Trade name: Aluminium soft solder paste Sn97Cu3
Aluminiumweichlötpaste Sn97Cu3

(Contd. of page 8)

Reasons for changes:
24.08.2015: adaption to Regulation 453/2010/EC, 830/2015/EU, 2012/18/EU
02.05.2017: recipe adjustment, section 2, 3
07.07.2017: section 3
19.03.2020: section 1
11.01.2021: section 1, 2, 3, 8, 11, 13, 15, 16
30.05.2023: section 2, 3, 8, 15
Information referred to in Annex I, point 1.3.4.2 of Regulation 1272/2008/EC:

Relevant phrases
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
Contact: *Dr. M. Probst*
Version number of previous version: *6*
Abbreviations and acronyms:
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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
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
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
Safety data sheet *SD3422*