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

Printing date 28.05.2025 *Version number 12 (replaces version 11)* *Revision: 27.05.2025*

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

1.1 Product identifier
Trade name: Soft soldering and tinning paste PbSn(Sb), SnPb(Sb)
Sn 20.0-80.0%, Pb 20.0-80.0%, Sb 0.5-2.0%
Sn60Pb40, Pb60Sn40, Pb74Sn25Sb1

UFI:
Sn60Pb40: TFH9-S0VK-M00C-0PEU
Pb60Sn40: 1C92-U34Y-900W-95FW
Pb74Sn25Sb1: 6E92-A3UC-M00D-YH1Y

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*

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
FELDER GMBH
Im Lipperfeld 11
D-46047 Oberhausen

Tel.:0208/8 50 35-0
Fax.:0208/2 60 80
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-hour emergency information:
Giftnotruf Berlin, counselling in German and English
Phone: (030) 30686 700
EuPCS: *PC-TEC-24*

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008


GHS08 health hazard

Repr. 1A	*H360FD*	*May damage fertility. May damage the unborn child.*
Lact.	*H362*	*May cause harm to breast-fed children.*
STOT RE 1	*H372*	*Causes damage to organs through prolonged or repeated exposure.*


GHS05 corrosion

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


GHS09 environment

Aquatic Acute 1	*H400*	*Very toxic to aquatic life.*
Aquatic Chronic 1	*H410*	*Very toxic to aquatic life with long lasting effects.*


GHS07

Acute Tox. 4	*H302*	*Harmful if swallowed.*
Acute Tox. 4	*H332*	*Harmful if inhaled.*
STOT SE 3	*H335*	*May cause respiratory irritation.*

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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 GHS08 GHS09

Signal word *Danger*

Hazard-determining components of labelling:
zinc chloride
lead
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts
Isotridecanol 6EO
Hazard statements
H302 Harmful if swallowed.
H332 Harmful if inhaled.
H314 Causes severe skin burns and eye damage.
H360FD May damage fertility. May damage the unborn child.
H362 May cause harm to breast-fed children.
H335 May cause respiratory irritation.
H372 Causes damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements
P263 Avoid contact during pregnancy and while nursing.
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.
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.
Additional information:
Restricted to professional users.
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: 7439-92-1 *EINECS: 231-100-4* *Index number: 082-013-00-1* *Reg.nr.: 01-2119513221-59*	*lead* *Repr. 1A, H360FD; Lact., H362; STOT RE 1, H372* *Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=100)* *Specific concentration limit: Repr. 1A; H360D: C ≥ 0.03 %*	*<50%*
CAS: 7646-85-7 *EINECS: 231-592-0* *Index number: 030-003-00-2* *Reg.nr.: 01-2119472431-44*	*zinc chloride* *Skin Corr. 1B, H314* *Aquatic Acute 1, H400; Aquatic Chronic 1, H410* *Acute Tox. 4, H302* *Specific concentration limit: STOT SE 3; H335: C ≥ 5 %*	*<10%*
CAS: 68411-30-3 *EINECS: 270-115-0* *Reg.nr.: 01-2119489428-22*	*Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts* *Eye Dam. 1, H318* *Acute Tox. 4, H302; Skin Irrit. 2, H315* *Aquatic Chronic 3, H412*	*<10%*

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CAS: 69011-36-5 *Reg.nr.: <1t/year*	*Isotridecanol 6EO* *Eye Dam. 1, H318* *Aquatic Chronic 3, H412*	*<5%*
CAS: 12125-02-9 *EINECS: 235-186-4* *Index number: 017-014-00-8* *Reg.nr.: 01-2119487950-27*	*ammonium chloride* *Acute Tox. 4, H302; Eye Irrit. 2, H319*	*<5%*

SVHC	
7439-92-1	*lead*

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.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
After inhalation:
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
After skin contact: *Immediately wash with water and soap and rinse thoroughly.*
After eye contact: *Rinse opened eye for several minutes under running water. Then consult a doctor.*
After swallowing:
Call for a doctor immediately.
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: *Mouth respiratory protective device.*

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
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Information about fire - and explosion protection: *No special measures required.*

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7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Unsuitable material for receptacle: aluminium.
Unsuitable container material: Zinc
Unsuitable material for receptacle: steel.
Information about storage in one common storage facility: *Not required.*
Further information about storage conditions: *Keep container tightly sealed.*
Storage class: *6.1 D*
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:	
7439-92-1 lead	
AGW (EU)	*Long-term value: 0.15 mg/m³*
BOELV (EU)	*Long-term value: 0.15 mg/m³ as Pb*
WES (Australia)	*Long-term value: 0.05 mg/m³*
MAK (Germany)	*Long-term value: 0.004E mg/m³ vgl.Abschn.XII*
OEL (Ireland)	*Long-term value: 0.15 mg/m³ Repr1A, BOELV*
7440-31-5 tin	
WES (Australia)	*Long-term value: 2 mg/m³*
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.*
7646-85-7 zinc chloride	
WES (Australia)	*Short-term value: 2 mg/m³ Long-term value: 1 mg/m³*
MAK (Germany)	*Long-term value: 0.1A* 2E** mg/m³ *alveolengängig; **einatembar*
WEL (Great Britain)	*Short-term value: 2 mg/m³ Long-term value: 1 mg/m³*
OEL (Ireland)	*Short-term value: 2 mg/m³ Long-term value: 1 mg/m³*
12125-02-9 ammonium chloride	
WES (Australia)	*Short-term value: 20 mg/m³ Long-term value: 10 mg/m³ fume*
WEL (Great Britain)	*Short-term value: 20 mg/m³ Long-term value: 10 mg/m³*
OEL (Ireland)	*Short-term value: 20 mg/m³ Long-term value: 10 mg/m³*

Regulatory information
BOELV (EU): EU 2022/431
WES (Australia): Workplace exposure standards for airborne contaminants
MAK (Germany): MAK- und BAT-Liste
OEL (Ireland): 2024 CoP for the Safety, Health and Welfare at Work
WEL (Great Britain): EH40/2020
recommended monitoring procedures in accordance with 2020/878/EU no. 8.1.2:
7439-92-1 lead: NIOSH 7702(E), OSHA 1006(E), OSHA ID-206(E)
7646-85-7 zinc chloride: NIOSH 7300, 7301, 7303(E) "Zinc", OSHA, ID-121(E)
7440-31-5 tin: NIOSH 7300, 7301, 7303(E), OSHA ID-121, ISO15202(E,F), MTA/MA-025/A92(ESP)
12125-02-9 ammonium chloride: OSHA ID188(E)

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Ingredients with biological limit values:	
7439-92-1 lead	
BAT (EU)	*70 µg/dl* *blood* *lead*
BGW (Germany)	*150 µg/l* *Untersuchungsmaterial: Vollblut* *Probennahmezeitpunkt: keine Beschränkung* *Parameter: Blei*

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.
Individual protection measures, such as personal protective equipment
General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.
Respiratory protection:
Use suitable respiratory protective device in case of insufficient ventilation.
Filter P3
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
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: ≥ 0.2 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:	*Silver grey*
Odour:	*Characteristic*
Odour threshold:	*Not determined.*
Boiling point or initial boiling point and boiling range	*100 °C*

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Flammability	*Not determined.*
Lower and upper explosion limit	
Lower:	*Not determined.*
Upper:	*Not determined.*
Flash point:	*Not applicable.*
Decomposition temperature:	*Not determined.*
pH at 20 °C	*4.1*
Viscosity:	
Kinematic viscosity	*Not applicable.*
Dynamic:	*Not applicable.*
Solubility	
water:	*Insoluble.*
Partition coefficient n-octanol/water (log value)	*Not determined.*
Vapour pressure at 20 °C:	*23 hPa*
Density and/or relative density	
Density at 20 °C:	*6.19 g/cm³*
Relative density	*Not determined.*
Vapour density	*Not applicable.*
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:	*0 %*
VOC (EC)	*0.00 %*
Solids content:	*75.3 %*
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: *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.*

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(Contd. of page 6)

10.5 Incompatible materials: *No further relevant information available.*
10.6 Hazardous decomposition products: *No dangerous decomposition products known.*

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity
Harmful if swallowed.
Harmful if inhaled.

LD/LC50 values relevant for classification:		
ATE (Acute Toxicity Estimates)		
Oral	*LD50*	*5,928-6,336 mg/kg (rat)*

Primary irritant effect:
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.*
Reproductive toxicity
May damage fertility. May damage the unborn child.
May cause harm to breast-fed children.
STOT-single exposure
May cause respiratory irritation.
STOT-repeated exposure
Causes damage to organs through prolonged or repeated exposure.
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:	
7439-92-1 lead	
LC50(96h)	*1.17 mg/l (fish)*
ErC50(72h)	*0.123 mg/l (algae)*

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
The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects
Additional ecological information:
General notes:
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Also poisonous for fish and plankton in water bodies.
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.

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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 05 07: discarded inorganic chemicals consisting of or containing hazardous substances*
HP 5: Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 6: Acute Toxicity
HP 8: Corrosive
HP 10: Toxic for reproduction
HP 14: Ecotoxic

Outer packaging:
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 *UN3260*
14.2 UN proper shipping name
ADR *3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (ZINC CHLORIDE), ENVIRONMENTALLY HAZARDOUS*
IMDG *CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (ZINC CHLORIDE, lead), MARINE POLLUTANT*
IATA *CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (ZINC CHLORIDE)*
14.3 Transport hazard class(es)
ADR, IMDG

Class *8 Corrosive substances.*
Label *8*
IATA

Class *8 Corrosive substances.*
Label *8*
14.4 Packing group
ADR, IMDG, IATA *III*
14.5 Environmental hazards: *Product contains environmentally hazardous substances: lead*
Marine pollutant: *Symbol (fish and tree)*
Special marking (ADR): *Symbol (fish and tree)*
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*
Stowage Category *B*
14.7 Maritime transport in bulk according to IMO instruments *Not applicable.*

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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)	*5 kg*
Excepted quantities (EQ)	*Code: E1* *Maximum net quantity per inner packaging: 30 g* *Maximum net quantity per outer packaging: 1000 g*
UN "Model Regulation":	*UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (ZINC CHLORIDE), 8, III, ENVIRONMENTALLY HAZARDOUS*

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 *E1 Hazardous to the Aquatic Environment*
Qualifying quantity (tonnes) for the application of lower-tier requirements *100 t*
Qualifying quantity (tonnes) for the application of upper-tier requirements *200 t*
REGULATION (EU) 2019/1021 on persistent organic pollutants (POP) *None of the ingredients are included.*
REGULATION (EC) No 1907/2006 ANNEX XVII *Conditions of restriction: 30, 63, 65, 72*

Regulation (EU) No 649/2012		
7439-92-1	*lead*	*Annex I Part 1*

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II	
7439-92-1	*lead*

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.*

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57	
7439-92-1	*lead*

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

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Sn60Pb40, Pb60Sn40, Pb74Sn25Sb1

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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:
14.08.2018: section 3, 15 SVHC lead
05.02.2019: section 11.1
02.05.2019: section 3
06.02.2020: section 1
01.12.2020: section 3, 7, 11, 15
30.12.2020: section 2, 3, 11, 13, 14
02.11.2021: section 8.1,15
16.08.2022: section 9, 12, 15
26.03.2024: section 1, 11, 12, 15
27.05.2025: section 1, 8, 9, 13
Information referred to in Annex I, point 1.3.4.2 of Regulation 1272/2008/EC:

Relevant phrases
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H360D May damage the unborn child.
H360FD May damage fertility. May damage the unborn child.
H362 May cause harm to breast-fed children.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
Recommended restriction of use *For commercial users only*
Contact: *Dr. M. Probst*
Version number of previous version: *11*
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)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
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
Repr. 1A: Reproductive toxicity – Category 1A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
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