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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 09.06.2022 / 0016  
Replacing version dated / version: 01.11.2021 / 0015  
Valid from: 09.06.2022  
PDF print date: 09.06.2022  
ELECTR. SOLDERING-WIRE 60/40 1,5  
250 g Art.: 5470 15 250, Art.: 5474 15 250

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

**ELECTR. SOLDERING-WIRE 60/40 1,5**  
**250 g Art.: 5470 15 250, Art.: 5474 15 250**

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

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

Soft solder

**Uses advised against:**

No information available at present.

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

Theo Förch GmbH & Co. KG  
Theo-Förch-Str. 11 – 15  
74196 Neuenstadt  
Tel.: 07139/95-0  
Fax: 07139/95-199  
Email: [info@foerch.de](mailto:info@foerch.de)  
Homepage: [www.foerch.com](http://www.foerch.com)

Details of the supplier of the safety data sheet see section 16 of this safety data sheet.

Qualified person's e-mail address: [info@chemical-check.de](mailto:info@chemical-check.de), [k.schnurbusch@chemical-check.de](mailto:k.schnurbusch@chemical-check.de) Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone number

**Emergency information services / official advisory body:**

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**Telephone number of the company in case of emergencies:**

+49 (0) 700 / 24 112 112 (TFC)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) 1272/2008 (CLP)**

Hazard class	Hazard category	Hazard statement
Repr.	Lact.	H362-May cause harm to breast-fed children.
Repr.	1A	H360FD-May damage fertility. May damage the unborn child.

#### 2.2 Label elements

**Labeling according to Regulation (EC) 1272/2008 (CLP)**

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**Danger**

H362-May cause harm to breast-fed children. H360FD-May damage fertility. May damage the unborn child.

P201-Obtain special instructions before use. P260-Do not breathe dust. P263-Avoid contact during pregnancy and while nursing. P280-Wear protective gloves / protective clothing / eye protection / face protection.  
 P308+P313-IF exposed or concerned: Get medical advice / attention.

Restricted to professional users.  
 Lead

### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

n.a.

### 3.2 Mixtures

Lead	SVHC-substance Substance for which an EU exposure limit value applies.
Registration number (REACH)	---
Index	081-014-00-7
EINECS, ELINCS, NLP, REACH-IT List-No.	231-100-4
CAS	7439-92-1
content %	50-70
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Repr. 1A, H360FD Repr. Lact., H362

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Supply person with fresh air and consult doctor according to symptoms.

#### Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately.

In the event of contact with the hot product:

Wash off with cold water.

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Do not attempt to remove hardened product.

### **Eye contact**

In the event of contact with the hot product:

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

### **Ingestion**

Rinse the mouth thoroughly with water.

Consult doctor immediately - keep Data Sheet available.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

Symptomatic treatment.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Adapt to the nature and extent of fire.

If applicable

Metal fire extinguisher

#### **Unsuitable extinguishing media**

High volume water jet

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

In case of fire the following can develop:

Metal oxides

Toxic gases

### **5.3 Advice for firefighters**

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

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

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

#### **6.1.1 For non-emergency personnel**

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Avoid contact with eyes or skin.

#### **6.1.2 For emergency responders**

See section 8 for suitable protective equipment and material specifications.

### **6.2 Environmental precautions**

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

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

Pick up mechanically and dispose of according to Section 13.

Allow the hot product to solidify.

### **6.4 Reference to other sections**

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

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

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

### **7.1 Precautions for safe handling**

#### **7.1.1 General recommendations**

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Do not inhale dust/fume/mist.  
 Ensure good ventilation.  
 If applicable, suction measures at the workstation or on the processing machine necessary.  
 Avoid contact with eyes or skin.  
 Pregnant women should avoid contact with this product.  
 Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.  
 Observe directions on label and instructions for use.  
 Use working methods according to operating instructions.

**7.1.2 Notes on general hygiene measures at the workplace**

General hygiene measures for the handling of chemicals are applicable.  
 Wash hands before breaks and at end of work.  
 Keep away from food, drink and animal feedingstuffs.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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

Keep out of access to unauthorised individuals.  
 Keep locked away.  
 Store product closed and only in original packing.  
 Not to be stored in gangways or stair wells.  
 Store at room temperature.  
 Store in a dry place.

**7.3 Specific end use(s)**

No information available at present.

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

**8.1 Control parameters**

Chemical Name	Lead	
WEL-TWA: 0,15 mg/m3 (EU)		WEL-STEL: ---
Monitoring procedures:		<ul style="list-style-type: none"> <li>ISO 15202 (Workplace air - Determination of metals and metalloids in airborne particulate matter by Inductively Coupled Plasma Atomic Emission Spectrometry), Part 1-3 - 2012(Part 1), 2012(Part 2), 2004 (Part 3) - EU project BC/CEN/ENTR/000/2002-16 card 73-2 (2004)</li> <li>- ISO 8518 (Workplace air — Determination of particulate lead and lead compounds — Flame or electrothermal atomic absorption spectrometric method) - 2001 - EU project BC/CEN/ENTR/000/2002-16 card 73-1 (2004)</li> <li>- MDHS 91/2 (Metals and metalloids in workplace air by X-ray fluorescence spectrometry) - 2015 - EU project BC/CEN/ENTR/000/2002-16 card 73-4 (2004)</li> <li>- NIOSH 7082 (LEAD by Flame AAS) - 2017</li> <li>- NIOSH 7105 (Lead by GFAAS) - 1994</li> <li>- NIOSH 7300 (ELEMENTS by ICP (Nitric/Perchloric Acid Ashing)) - 2003</li> <li>- NIOSH 7301 (Elements by ICP (aqua regia ashing)) - 2003</li> <li>- NIOSH 7303 (Elements by ICP (Hot block HCl/HNO3 digestion)) - 2003</li> <li>- NIOSH 7701 (LEAD BY PORTABLE ULTRASONIC EXTRACTION/ASV) - 2016</li> <li>- NIOSH 7702 (Lead by field portable XRF) - 1998 - EU project BC/CEN/ENTR/000/2002-16 card 73-16 (2004)</li> <li>- OSHA 1006 (Arsenic, Cadmium, Cobalt, Copper, Lead, and Nickel) - 2005</li> <li>- OSHA 5003 (Metal Sampling Group 1 (METALSSG-1)) - 2019</li> <li>- OSHA ID-121 (Metal and metalloid particulates in workplace atmospheres (Atomic absorption)) - 2002</li> <li>- OSHA ID-125G (Metal and metalloid particulates in workplace atmospheres (ICP)) - 2002</li> <li>- OSHA ID-206 (ICP analysis of metal/metalloid particulates from solder operations) - 1991</li> </ul>
BMGV: see biological limits for lead (EH40), 70 µg Pb/100 ml blood (EU)		Other information: ---

Chemical Name	Lead oxide	
WEL-TWA: 0,15 mg/m3 (Pb, inorganic compounds, EU)		WEL-STEL: ---
Monitoring procedures:		<ul style="list-style-type: none"> <li>ISO 15202 (Workplace air - Determination of metals and metalloids in airborne particulate matter by Inductively Coupled Plasma Atomic Emission Spectrometry), Part 1-3 - 2012(Part 1), 2012(Part 2), 2004 (Part 3) - EU project BC/CEN/ENTR/000/2002-16 card 73-2 (2004)</li> </ul>

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- ISO 8518 (Workplace air — Determination of particulate lead and lead compounds — Flame or electrothermal atomic absorption spectrometric method) - 2001 - EU project BC/CEN/ENTR/000/2002-16 card 73-1 (2004)
- MDHS 91/2 (Metals and metalloids in workplace air by X-ray fluorescence spectrometry) - 2015 - EU project BC/CEN/ENTR/000/2002-16 card 73-4 (2004)
- NIOSH 7082 (LEAD by Flame AAS) - 2017
- NIOSH 7105 (Lead by GFAAS) - 1994
- NIOSH 7300 (ELEMENTS by ICP (Nitric/Perchloric Acid Ashing)) - 2003
- NIOSH 7301 (Elements by ICP (aqua regia ashing)) - 2003
- NIOSH 7303 (Elements by ICP (Hot block HCl/HNO3 digestion)) - 2003
- NIOSH 7701 (LEAD BY PORTABLE ULTRASONIC EXTRACTION/ASV) - 2016
- NIOSH 7702 (Lead by field portable XRF) - 1998 - EU project BC/CEN/ENTR/000/2002-16 card 73-16 (2004)
- OSHA ID-121 (Metal and metalloid particulates in workplace atmospheres (Atomic absorption)) - 2002
- OSHA ID-125G (Metal and metalloid particulates in workplace atmospheres (ICP)) - 2002
- OSHA ID-206 (ICP analysis of metal/metalloid particulates from solder operations) - 1991

BMGV: see biological limits for lead (EH40), 70 µg Pb/100 ml blood (Lead and its ionic compounds, EU)

Other information: ---

Lead						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	6,5	µg/l	dissolved lead
	Environment - marine		PNEC	3,4	µg/l	dissolved lead
	Environment - sediment, freshwater		DNEL	41	mg/kg dw	with bioavailability correction
	Environment - sediment, freshwater		PNEC	174	mg/kg dw	without bioavailability correction
	Environment - sediment, freshwater		PNEC	164,2	mg/kg dw	
	Environment - soil		PNEC	147	mg/kg dw	
	Environment - sewage treatment plant		PNEC	0,1	mg/l	
Workers / employees	Human - blood	Long term, systemic effects	DNEL	40	µg/dl	Adult neurological function
Workers / employees	Human - blood	Long term, systemic effects	DNEL	10	µg/dl	Developmental effect on foetus of pregnant women

Urea						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,047	mg/l	
Consumer	Human - dermal	Short term, systemic effects	DNEL	580	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	580	mg/kg	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	125	mg/m3	

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Consumer	Human - inhalation	Long term, systemic effects	DNEL	125	mg/m <sup>3</sup>	
Consumer	Human - oral	Short term, systemic effects	DNEL	42	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	42	mg/kg	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	580	mg/kg	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	580	mg/kg	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	292	mg/m <sup>3</sup>	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	292	mg/m <sup>3</sup>	

96 WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).  
 (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).  
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.  
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.  
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.  
 Applies only if maximum permissible exposure values are listed here.  
 Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.  
 These are specified by e.g. EN 14042.  
 EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.  
 Wash hands before breaks and at end of work.  
 Keep away from food, drink and animal feedingstuffs.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:  
 With danger of contact with eyes.  
 Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:  
 Chemical resistant protective gloves (EN ISO 374).  
 If applicable  
 Protective Neoprene® / polychloroprene gloves (EN ISO 374).  
 Minimum layer thickness in mm:

0,5  
 Permeation time (penetration time) in minutes:  
 480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.  
 The recommended maximum wearing time is 50% of breakthrough time.  
 Protective hand cream recommended.

During processing:  
 Leather gloves.

Skin protection - Other:

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Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:  
 Normally not necessary.  
 During processing:  
 If applicable, filter P2 (EN 143), code colour white  
 Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:  
 If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

Additional information on hand protection - No tests have been performed.  
 In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.  
 Selection of materials derived from glove manufacturer's indications.  
 Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.  
 Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.  
 In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.  
 The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	Solid
Colour:	Grey
Colour:	Silver
Odour:	Odourless
Melting point/freezing point:	183-270 °C
Boiling point or initial boiling point and boiling range:	1750 °C
Flammability:	Not combustible.
Lower explosion limit:	Does not apply to solids.
Upper explosion limit:	Does not apply to solids.
Flash point:	Does not apply to solids.
Auto-ignition temperature:	Does not apply to solids.
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture is non-soluble (in water).
Kinematic viscosity:	Does not apply to solids.
Solubility:	Insoluble
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	There is no information available on this parameter.
Density and/or relative density:	8-10 g/cm <sup>3</sup>
Relative vapour density:	Does not apply to solids.

### 9.2 Other information

Explosives:	There is no information available on this parameter.
Oxidizing solids:	No

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

### 10.4 Conditions to avoid

See also section 7.

Strong heat

### 10.5 Incompatible materials

See also section 7.

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Avoid contact with strong oxidizing agents.  
 Avoid contact with strong acids.  
 Avoid contact with strong alkalis.

### 10.6 Hazardous decomposition products

See also section 5.2  
 No decomposition when used as directed.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Possibly more information on health effects, see Section 2.1 (classification).

**ELECTR. SOLDERING-WIRE 60/40 1,5**  
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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Lead						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Skin corrosion/irritation:						Analogous conclusion, Not irritant
Serious eye damage/irritation:						Analogous conclusion, Not irritant
Respiratory or skin sensitisation:						No indications of such an effect.
Reproductive toxicity:						Repr. 1A, Lact.
Specific target organ toxicity - single exposure (STOT-SE):						No indications of such an effect.
Aspiration hazard:						No
Symptoms:						drop in blood pressure, intestinal disturbances, weight loss, cramps, circulatory collapse, stomach cramps, fatigue, muscle pains, shock, nausea and vomiting.

Lead oxide						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	Does not conform with EU classification.

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Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5,05	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Does not conform with EU classification.
Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye damage/irritation:				Rabbit		Not irritant
Symptoms:						unconsciousness, weight loss, cramps, stomach cramps, fatigue, muscle pains, shock, nausea and vomiting.

### 11.2. Information on other hazards

ELECTR. SOLDERING-WIRE 60/40 1,5 250 g Art.: 5470 15 250, Art.: 5474 15 250						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting properties:						Does not apply to mixtures.
Other information:						No other relevant information available on adverse effects on health.

## SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

ELECTR. SOLDERING-WIRE 60/40 1,5 250 g Art.: 5470 15 250, Art.: 5474 15 250							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:							n.d.a.
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Endocrine disrupting properties:							Does not apply to mixtures.
12.7. Other adverse effects:							No information available on other adverse effects on the environment.
Other information:							According to the recipe, contains no AOX.

Lead							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes

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12.2. Persistence and degradability:							Not relevant for inorganic substances., Inorganic products cannot be eliminated from water through biological purification methods.
12.3. Bioaccumulative potential:							Possible
12.1. Toxicity to fish:	LC50	96h	0,107	mg/l	Oncorhynchus mykiss		Analogous conclusion soluble lead salts
12.1. Toxicity to fish:	LC50	96h	0,1942	mg/l	Pimephales promelas		Analogous conclusion soluble lead salts
12.1. Toxicity to daphnia:	EC50	48h	0,1075	mg/l	Daphnia magna		Analogous conclusion soluble lead salts
12.1. Toxicity to algae:	EC50	72h	233,1	µg/l	Pseudokirchneriella subcapitata		pH 7,5-8,5, soluble lead salts
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
12.4. Mobility in soil:							Slight

Lead oxide							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,3	mg/l	Pimephales promelas	U.S. EPA ECOTOX Database	
12.1. Toxicity to daphnia:	EC50	48h	0,13	mg/l	Daphnia magna	U.S. EPA ECOTOX Database	

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

12 01 04 non-ferrous metal dust and particles

17 04 07 mixed metals

17 04 03 Lead

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Implement substance recycling.

#### For contaminated packing material

Pay attention to local and national official regulations.

Recycling

## SECTION 14: Transport information

### General statements

14.1. UN number or ID number:

n.a.

### Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

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14.3. Transport hazard class(es): n.a.  
 14.4. Packing group: n.a.  
 Classification code: n.a.  
 LQ: n.a.  
 14.5. Environmental hazards: Not applicable  
 Tunnel restriction code:

**Transport by sea (IMDG-code)**

14.2. UN proper shipping name:  
 14.3. Transport hazard class(es): n.a.  
 14.4. Packing group: n.a.  
 Marine Pollutant: n.a.  
 14.5. Environmental hazards: Not applicable

**Transport by air (IATA)**

14.2. UN proper shipping name:  
 14.3. Transport hazard class(es): n.a.  
 14.4. Packing group: n.a.  
 14.5. Environmental hazards: Not applicable

**14.6. Special precautions for user**

Unless specified otherwise, general measures for safe transport must be followed.

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

Non-dangerous material according to Transport Regulations.

**SECTION 15: Regulatory information**

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

Observe restrictions:  
 Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!  
 Regulation (EC) No 1907/2006, Annex XVII  
 Lead  
 Regulation (EU) No 649/2012 'concerning the export and import of hazardous chemicals' must be adhered to, as the product contains a substance that falls within the scope of this Regulation.  
 Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!  
 Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): 0 %

Observe incident regulations.

**15.2 Chemical safety assessment**

A chemical safety assessment is not provided for mixtures.

**SECTION 16: Other information**

Revised sections: 15  
 These details refer to the product as it is delivered.  
 Employee instruction/training in handling hazardous materials is required.

**Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):**

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Repr. Lact., H362	Classification according to calculation procedure.
Repr. 1A, H360FD	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H360FD May damage fertility. May damage the unborn child.  
 H362 May cause harm to breast-fed children.

Repr. — Reproductive toxicity

**Key literature references and sources for data:**

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

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### Any abbreviations and acronyms used in this document:

acc., acc. to according, according to  
 ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 AOX Adsorbable organic halogen compounds  
 approx. approximately  
 Art., Art. no. Article number  
 ASTM ASTM International (American Society for Testing and Materials)  
 ATE Acute Toxicity Estimate  
 BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  
 BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
 BCF Bioconcentration factor  
 BSEF The International Bromine Council  
 bw body weight  
 CAS Chemical Abstracts Service  
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
 CMR carcinogenic, mutagenic, reproductive toxic  
 DMEL Derived Minimum Effect Level

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DNEL Derived No Effect Level  
 DOC Dissolved organic carbon  
 dw dry weight  
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
 EbCx, EyCx, Eblx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)  
 EC European Community  
 ECHA European Chemicals Agency  
 ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect  
 EEC European Economic Community  
 EINECS European Inventory of Existing Commercial Chemical Substances  
 ELINCS European List of Notified Chemical Substances  
 EN European Norms  
 EPA United States Environmental Protection Agency (United States of America)  
 ErCx, EuCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)  
 etc. et cetera  
 EU European Union  
 EVAL Ethylene-vinyl alcohol copolymer  
 Fax. Fax number  
 gen. general  
 GHS Globally Harmonized System of Classification and Labelling of Chemicals  
 GWP Global warming potential  
 Koc Adsorption coefficient of organic carbon in the soil  
 Kow octanol-water partition coefficient  
 IARC International Agency for Research on Cancer  
 IATA International Air Transport Association  
 IBC (Code) International Bulk Chemical (Code)  
 IMDG-code International Maritime Code for Dangerous Goods  
 incl. including, inclusive  
 IUCLID International Uniform Chemical Information Database  
 IUPAC International Union for Pure Applied Chemistry  
 LC50 Lethal Concentration to 50 % of a test population  
 LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)  
 Log Koc Logarithm of adsorption coefficient of organic carbon in the soil  
 Log Kow, Log Pow Logarithm of octanol-water partition coefficient  
 LQ Limited Quantities  
 MARPOL International Convention for the Prevention of Marine Pollution from Ships  
 n.a. not applicable  
 n.av. not available  
 n.c. not checked  
 n.d.a. no data available  
 NIOSH National Institute for Occupational Safety and Health (USA)  
 NLP No-longer-Polymer  
 NOEC, NOEL No Observed Effect Concentration/Level  
 OECD Organisation for Economic Co-operation and Development  
 org. organic  
 OSHA Occupational Safety and Health Administration (USA)  
 PBT persistent, bioaccumulative and toxic  
 PE Polyethylene  
 PNEC Predicted No Effect Concentration  
 ppm parts per million  
 PVC Polyvinylchloride  
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)  
 REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.  
 RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)  
 SVHC Substances of Very High Concern  
 Tel. Telephone  
 TOC Total organic carbon  
 UN RTDG United Nations Recommendations on the Transport of Dangerous Goods  
 VOC Volatile organic compounds  
 vPvB very persistent and very bioaccumulative  
 wwt wet weight

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The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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