

Trade name: Hartlot Silfos 2

Product no.: 449254

Current version: 2.1.1. issued: 16.04.2018 Replaced version: 2.1.0. issued: 10.01.2018 Region: GB

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

Product identifier

Trade name

Hartlot Silfos 2

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

Relevant identified uses of the substance or mixture

Industrial use

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Viega Technology GmbH & Co. KG

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57439 Attendorn

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Information provided by / telephone

+49 2722 61-1100

Advice on Safety Data Sheet

sdb_info@umco.de

Emergency telephone number

For medical advice (in German and English): +49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification information

This product does not meet the classification criteria given in the Regulation (EC) No 1272/2008 (CLP). This product does not meet the labelling criteria given in the Directives 67/548/EWG respectively 1999/45/EC (DPD)

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms

Signal word

Hazard statement(s)

Hazard statements (EU)

Safety data sheet available on request. EUH210

Precautionary statement(s)

Labelling information

The labelling (EU hazard statements) meets the criteria of annex II of Directive (EC) Nr. 1272/2008 (CLP).

2.3 Other hazards



Trade name: Hartlot Silfos 2

Product no.: 449254

Current version: 2.1.1, issued: 16.04.2018 Region: 2.1.0, issued: 10.01.2018 Region: GB

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Concentration	%
	REACH no			
1	silver			
	7440-22-4	-	> 0.10 - < 19.00	%-b.w.
	231-131-3			
	-			
	-			
2	copper			
	7440-50-8	-	> 79.00 - < 94.00	%-b.w.
	231-159-6			
	-			
	-			

Full Text for all H-phrases and EUH-phrases: pls. see section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely. In the event of contact with hot product proceed as foreseen for burns.

After inhalation

Ensure supply of fresh air. In case of persisting adverse effects consult a physician.

After skin contact

After contact with molten product, cool quickly with cold water.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

After ingestion

Never give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention if pain still persists.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing measures to suit surroundings.

Unsuitable extinguishing media

Water

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO2); Carbon monoxide (CO); Phosphorus oxides; copper oxide

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.



Trade name: Hartlot Silfos 2

Product no.: 449254

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically. When picked up, treat material as prescribed under heading "Disposal considerations". Embank hot liquid after spillage and let it cool down. Take up residues mechanically after solidification.

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation. Refer to protective measures listed in section 8.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Avoid contact with eyes and skin. Use barrier skin cream. Do not inhale dust/fumes/aerosols.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed.

Advice on storage assembly

Do not store together with: Oxidizing agents

7.3 Specific end use(s)



Trade name: Hartlot Silfos 2

Product no.: 449254

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.		EC no.	
1	copper	7440-50-8		231-159-6	
	List of approved workplace exposure limits (WELs) / EH40				
	Copper				
	fume				
	TWA	0.2	mg/m³		
	List of approved workplace exposure limits (WELs) / E	EH40			
	Copper				
	dusts and mists				
	Cu				
	STEL	2	mg/m³		
	TWA	1	mg/m³		
2	silver	7440-22-4		231-131-3	
	List of approved workplace exposure limits (WELs) / EH40				
	Silver (metallic)				
	TWA	0.1	mg/m³		
	2000/39/EC				
	Silver, metallic				
	TWA	0.1	mg/m³		

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respirator P2 (EN 143)

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific workstation suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material leather

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour	
solid	
red	



Trade name: Hartlot Silfos 2

Product no.: 449254

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Odour

No data available

Odour threshold

No data available

pH value

No data available

Boiling point / boiling range

No data available

Melting point / melting range

650 875 °C

Decomposition point / decomposition range

No data available

Flash point

No data available

Auto-ignition temperature

No data available

Oxidising properties

No data available

Explosive properties

No data available

Flammability (solid, gas)

No data available

Lower flammability or explosive limits

No data available

Upper flammability or explosive limits

No data available

Vapour pressure

No data available

Vapour density

No data available

Evaporation rate

No data available

Relative density

No data available

Density

Value 8.1 8.4 g/cm3

Solubility in water No data available

Solubility(ies)

No data available

Partition coefficient: n-octanol/water

No data available

Viscosity

No data available

Other information

Other information



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SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Heat

10.5 Incompatible materials

Oxidizing agents

10.6 Hazardous decomposition products

In case of fire: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity						
No	Substance name		CAS no.	EC	no.	
1	silver		7440-22-4	23	1-131-3	
LD50		>	2	.000	mg/kg bodyweight	
Species		rat				
Method		OECD 401				

Acute dermal toxicity No data available

Acute inhalational toxicity No data available

Skin corrosion/irritation						
No	Substance name	CAS no.	EC no.			
1	silver	7440-22-4	231-131-3			
Species		rabbit				
Method		OECD 404				
Evaluation		non-irritant				

Serious eye damage/irritation						
No	Substance name	CAS no.	EC no.			
1	silver	7440-22-4	231-131-3			
Species		rabbit				
Method		OECD 405				
Evaluation		non-irritant				



Trade name: Hartlot Silfos 2

Product no.: 449254

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Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Reproduction toxicity

No data available

Carcinogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)

No data available

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)

No data available

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No data available

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Other information

Other information

Do not discharge product unmonitored into the environment.



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Completely emptied packagings can be given for recycling. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU regulations</u>

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

15.2 Chemical safety assessment



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Product no.: 449254

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SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Department issuing safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

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