

Page 1 of 13  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 01.11.2021 / 0017  
Replacing version dated / version: 21.10.2021 / 0016  
Valid from: 01.11.2021  
PDF print date: 01.11.2021  
Copper Paste S425  
100 g Art.: 6510 5001, Art.: 6514 5001

## 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

**Copper Paste S425**  
**100 g Art.: 6510 5001, Art.: 6514 5001**

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

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

Lubricating grease

**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   |
|-----------------|-----------------|--|
| Eye Irrit.      | 2               | H319-Causes serious eye irritation.                        |
| Aquatic Acute   | 1               | H400-Very toxic to aquatic life.                           |
| Aquatic Chronic | 1               | H410-Very toxic to aquatic life with long lasting effects. |

#### 2.2 Label elements

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

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 01.11.2021 / 0017  
 Replacing version dated / version: 21.10.2021 / 0016  
 Valid from: 01.11.2021  
 PDF print date: 01.11.2021  
 Copper Paste S425  
 100 g Art.: 6510 5001, Art.: 6514 5001



### Warning

H319-Causes serious eye irritation. H410-Very toxic to aquatic life with long lasting effects.

P273-Avoid release to the environment. P280-Wear eye protection / face protection.  
 P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313-If eye irritation persists: Get medical advice / attention.

### 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

|   |  |
|---|--|
| <b>Copper flakes (coated with aliphatic acid)</b>                             |  |
| <b>Registration number (REACH)</b>  | ---  |
| <b>Index</b>  | 029-019-01-X   |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | (231-159-6)  |
| <b>CAS</b>  | (7440-50-8)  |
| <b>content %</b>  | 10-<20   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Acute Tox. 3, H331<br>Acute Tox. 4, H302<br>Eye Irrit. 2, H319<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=10) |
| <b>Specific Concentration Limits and ATE</b>                                  | ATE (oral): 500 mg/kg<br>ATE (as inhalation, Dusts or mist): 0,733 mg/l/4h   |

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

Page 3 of 13  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 01.11.2021 / 0017  
Replacing version dated / version: 21.10.2021 / 0016  
Valid from: 01.11.2021  
PDF print date: 01.11.2021  
Copper Paste S425  
100 g Art.: 6510 5001, Art.: 6514 5001

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

### Eye contact

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

### Ingestion

If swallowed, rinse mouth with water (only if the person is conscious).  
Do not induce vomiting - give copious water to drink. Consult doctor immediately.

### 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

Water jet spray/foam/CO<sub>2</sub>/dry 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:

Oxides of carbon  
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.  
Ensure sufficient supply of air.  
Avoid contact with eyes or skin.  
If applicable, caution - risk of slipping.

#### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

### 6.2 Environmental precautions

If leakage occurs, dam up.  
Resolve leaks if this possible without risk.  
Prevent surface and ground-water infiltration, as well as ground penetration.  
Prevent from entering drainage system.  
If accidental entry into drainage system occurs, inform responsible authorities.

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

Pick up mechanically and dispose of according to Section 13.  
Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

### 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

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 01.11.2021 / 0017  
 Replacing version dated / version: 21.10.2021 / 0016  
 Valid from: 01.11.2021  
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 Copper Paste S425  
 100 g Art.: 6510 5001, Art.: 6514 5001

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

- Avoid formation of oil mist.
- Avoid contact with eyes.
- Avoid long lasting or intensive contact with skin.
- Do not carry cleaning cloths soaked in product in trouser pockets.
- 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.
- Store product closed and only in original packing.
- Not to be stored in gangways or stair wells.
- Protect from direct sunlight and warming.
- Store in a well-ventilated place.
- Protect from frost.
- 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                             | Copper flakes (coated with aliphatic acid)   |     | Content %:10-<br><20 |
|---|--|-----|----------------------|
| WEL-TWA: 1 mg/m3 (dusts and mists, as Cu) | WEL-STEL: 2 mg/m3 (dusts and mists, as Cu)   | --- |                      |
| Monitoring procedures:                    | 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 84-1 (2004)<br>- MDHS 91/2 (Metals and metalloids in workplace air by X-ray fluorescence spectrometry) - 2015 - EU project BC/CEN/ENTR/000/2002-16 card 84-2 (2004)<br>- NIOSH 7029 (Copper (dust and fume)) - 1994<br>- NIOSH 7300 (ELEMENTS by ICP (Nitric/Perchloric Acid Ashing)) - 2003<br>- NIOSH 7301 (Elements by ICP (aqua regia ashing)) - 2003<br>- NIOSH 7303 (Elements by ICP (Hot block HCl/HNO3 digestion)) - 2003<br>- OSHA ID-121 (Metal and metalloid particulates in workplace atmospheres (Atomic absorption)) - 2002 - EU project BC/CEN/ENTR/000/2002-16 card 84-10 (2004)<br>- OSHA ID-125G (Metal and metalloid particulates in workplace atmospheres (ICP)) - 2002<br>- OSHA ID-206 (ICP analysis of metal/metalloid particulates from solder operations) - 1991 |     |                      |
| BMGV: ---                                 | Other information: ---   |     |                      |

#### Copper flakes (coated with aliphatic acid)

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|------------------|------------|-------|------|------|
|                     | Environment - freshwater                   |                  | PNEC       | 7,8   | µg/l |      |
|                     | Environment - marine                       |                  | PNEC       | 5,2   | µg/l |      |
|                     | Environment - sewage treatment plant       |                  | PNEC       | 230   | µg/l |      |

GB

Page 5 of 13  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 01.11.2021 / 0017  
 Replacing version dated / version: 21.10.2021 / 0016  
 Valid from: 01.11.2021  
 PDF print date: 01.11.2021  
 Copper Paste S425  
 100 g Art.: 6510 5001, Art.: 6514 5001

|                     |                                    |                              |      |      |              |  |
|---------------------|------------------------------------|------------------------------|------|------|--------------|--|
|                     | Environment - sediment, freshwater |                              | PNEC | 87   | mg/kg dw     |  |
|                     | Environment - sediment, marine     |                              | PNEC | 676  | mg/kg dw     |  |
|                     | Environment - soil                 |                              | PNEC | 65   | mg/kg dw     |  |
| Workers / employees | Human - inhalation                 | Short term, systemic effects | DNEL | 18,2 | mg/m3        |  |
| Workers / employees | Human - dermal                     | Long term, systemic effects  | DNEL | 137  | mg/kg bw/day |  |
| Workers / employees | Human - dermal                     | Short term, systemic effects | DNEL | 273  | mg/kg bw/day |  |

| Distillates (petroleum), hydrotreated heavy paraffinic |  |                  |            |       |            |      |
|--|--|------------------|------------|-------|------------|------|
| Area of application                                    | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit       | Note |
|  | Environment - oral (animal feed)           |                  | PNEC       | 9,33  | mg/kg feed |      |

GB 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:  
 Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:  
 Chemical resistant protective gloves (EN ISO 374).  
 Recommended  
 Protective nitrile gloves (EN ISO 374).  
 Minimum layer thickness in mm:  
 0,4  
 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.

Page 6 of 13  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 01.11.2021 / 0017  
 Replacing version dated / version: 21.10.2021 / 0016  
 Valid from: 01.11.2021  
 PDF print date: 01.11.2021  
 Copper Paste S425  
 100 g Art.: 6510 5001, Art.: 6514 5001

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

Respiratory protection:  
 Normally not necessary.  
 With oil mist formation:  
 Filter A2 P2 (EN 14387), code colour brown, white  
 Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:  
 Not applicable

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:   | Paste, solid.  |
| Colour:   | Red-brown  |
| Odour:  | Characteristic   |
| Melting point/freezing point:                             | There is no information available on this parameter.                     |
| Boiling point or initial boiling point and boiling range: | There is no information available on this parameter.                     |
| Flammability:   | Flammable  |
| Lower explosion limit:                                    | Does not apply to solids.  |
| Upper explosion limit:                                    | Does not apply to solids.  |
| Flash point:  | >220 °C (ISO 2592 (Cleveland, open cup), Does not maintain combustion. ) |
| 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:                                      | >20,5 mm <sup>2</sup> /s (40°C, Viscous )                                |
| Solubility:   | Insoluble  |
| Partition coefficient n-octanol/water (log value):        | Does not apply to mixtures.  |
| Vapour pressure:  | <0,1 mbar (20°C)   |
| Density and/or relative density:                          | 1,15 g/cm <sup>3</sup> (15°C, DIN 51757)                                 |
| Relative vapour density:                                  | Does not apply to solids.  |

### 9.2 Other information

|                   |                           |
|-------------------|---------------------------|
| Explosives:       | Product is not explosive. |
| Oxidizing solids: | No                        |
| Evaporation rate: | n.a.                      |
| Solvents content: | 0 %                       |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not to be expected

### 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

Heating





GB

Page 8 of 13  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 01.11.2021 / 0017  
 Replacing version dated / version: 21.10.2021 / 0016  
 Valid from: 01.11.2021  
 PDF print date: 01.11.2021  
 Copper Paste S425  
 100 g Art.: 6510 5001, Art.: 6514 5001

|  |  |  |  |  |  |  |   |
|--|--|--|--|--|--|--|---|
| 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:                       |  |  |  |  |  |  | Does not contain any organically bound halogens which can contribute to the AOX value in waste water. |
| Other information:                       |  |  |  |  |  |  | DOC-elimination degree(complexing organic substance)>= 80%/28d: n.a.                                  |

| Copper flakes (coated with aliphatic acid) |           |      |               |      |                                 |             |       |
|--|-----------|------|---------------|------|---------------------------------|-------------|-------|
| Toxicity / effect                          | Endpoint  | Time | Value         | Unit | Organism                        | Test method | Notes |
| 12.1. Toxicity to fish:                    | LC50      |      | 0,0068-0,0156 | mg/l | Pimephales promelas             |             |       |
| 12.1. Toxicity to daphnia:                 | NOEC/NOEL | 24h  | 0,004         | mg/l | Daphnia magna                   |             |       |
| 12.1. Toxicity to daphnia:                 | EC50      | 48h  | 0,03          | mg/l | Daphnia magna                   |             |       |
| 12.1. Toxicity to algae:                   | EC50      | 72h  | 0,0426-0,0535 | mg/l | Pseudokirchneriella subcapitata |             |       |

## 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 12 spent waxes and fats

Recommendation:

Sewage disposal shall be discouraged.  
 Pay attention to local and national official regulations.  
 E.g. suitable incineration plant.  
 E.g. dispose at suitable refuse site.

#### For contaminated packing material

Pay attention to local and national official regulations.  
 Empty container completely.  
 Untampered packaging can be recycled.  
 Dispose of packaging that cannot be cleaned in the same manner as the substance.

## SECTION 14: Transport information

### General statements

14.1. UN number or ID number: 3077

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

14.2. UN proper shipping name:  
 UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COPPER)

14.3. Transport hazard class(es): 9

14.4. Packing group: III

Classification code: M7

LQ: 5 kg





GB

Page 9 of 13  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 01.11.2021 / 0017  
 Replacing version dated / version: 21.10.2021 / 0016  
 Valid from: 01.11.2021  
 PDF print date: 01.11.2021  
 Copper Paste S425  
 100 g Art.: 6510 5001, Art.: 6514 5001

14.5. Environmental hazards: environmentally hazardous  
 Tunnel restriction code: -

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

14.2. UN proper shipping name:  
 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COPPER)

14.3. Transport hazard class(es):

14.4. Packing group:

EmS:

Marine Pollutant:

14.5. Environmental hazards:

9

III

F-A, S-F

Yes

environmentally hazardous



**Transport by air (IATA)**

14.2. UN proper shipping name:

Environmentally hazardous substance, solid, n.o.s. (COPPER)

14.3. Transport hazard class(es):

14.4. Packing group:

14.5. Environmental hazards:

9

III

environmentally hazardous



**14.6. Special precautions for user**

Persons employed in transporting dangerous goods must be trained.  
 All persons involved in transporting must observe safety regulations.  
 Precautions must be taken to prevent damage.

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

Freighted as packaged goods rather than in bulk, therefore not applicable.  
 Minimum amount regulations have not been taken into account.  
 Danger code and packing code on request.  
 Comply with special provisions.

**SECTION 15: Regulatory information**

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

Observe restrictions:  
 Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

| Hazard categories | Notes to Annex I | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements |
|-------------------|------------------|---|---|
| E1                |                  | 100   | 200   |

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

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: 1-16  
 Employee training in handling dangerous goods is required.  
 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):**

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 01.11.2021 / 0017  
 Replacing version dated / version: 21.10.2021 / 0016  
 Valid from: 01.11.2021  
 PDF print date: 01.11.2021  
 Copper Paste S425  
 100 g Art.: 6510 5001, Art.: 6514 5001

| Classification in accordance with regulation<br>(EC) No. 1272/2008 (CLP) | Evaluation method used                             |
|--|--|
| Eye Irrit. 2, H319   | Classification according to calculation procedure. |
| Aquatic Acute 1, H400  | Classification according to calculation procedure. |
| Aquatic Chronic 1, H410  | 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).

- H302 Harmful if swallowed.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

- Eye Irrit. — Eye irritation
- Aquatic Acute — Hazardous to the aquatic environment - acute
- Aquatic Chronic — Hazardous to the aquatic environment - chronic
- Acute Tox. — Acute toxicity - inhalation
- Acute Tox. — Acute toxicity - oral

#### 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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Page 12 of 13  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 01.11.2021 / 0017  
 Replacing version dated / version: 21.10.2021 / 0016  
 Valid from: 01.11.2021  
 PDF print date: 01.11.2021  
 Copper Paste S425  
 100 g Art.: 6510 5001, Art.: 6514 5001

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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  
 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, EµCx, 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

Page 13 of 13

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

Revision date / version: 01.11.2021 / 0017

Replacing version dated / version: 21.10.2021 / 0016

Valid from: 01.11.2021

PDF print date: 01.11.2021

Copper Paste S425

100 g Art.: 6510 5001, Art.: 6514 5001

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  
IUCRID 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

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.

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