

# **Material Safety Data Sheet** According to 91/155 EEC

Printing date 27.04.2004

Reviewed on 27.04.2004

## **1 Identification of substance**

### **\*Product details:**

**\*Trade name:** COPPER POWDER LUMINOR 2280

**\*Application of the substance / the preparation**  
metallic pigment for paints, printing inks and plastics

### **\*Manufacturer/Supplier:**

Schlenk Metallpulver GmbH & Co KG  
Barnsdorfer Hauptstr. 5  
D-91154 Roth-Barnsdorf

Tel.: ++49/9171/808-0  
Fax.: ++49/9171/808200

### **\*Informing department:**

Department QSI

Tel.: ++49/9171/808320

Fax.: ++49/9171/808208

### **\*Emergency information:**

++49/9171/808-0

## **2 Composition/ data on components**

### **\*Chemical characterization:**

**\*CAS No. Designation:**

7440-50-8 copper

**\*Identification number(s):** –

### **\*Chemical characterization**

**\*Description:** Flake Copper Powder

## **3 Hazards identification**

**\*Hazard designation:** void

**\*Information pertaining to particular dangers for man and environment**  
R 10 Flammable.

## **4 First aid measures**

**\*After inhalation** Supply fresh air; consult doctor in case of symptoms.

**\*After skin contact** The product is not skin irritating.

**\*After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

**\*After swallowing** Seek medical treatment.

## **5 Fire fighting measures**

### **\*Suitable extinguishing agents**

Special powder for metal fires. Do not use water.

Dry sand

Use fire fighting measures that suit the environment.

### **\*For safety reasons unsuitable extinguishing agents**

Carbon dioxide

Water.

**\*Protective equipment:** No special measures required.

(Contd. on page 2)

MS-600

# **Material Safety Data Sheet** According to 91/155 EEC

Printing date 27.04.2004

Reviewed on 27.04.2004

Trade name: COPPER POWDER LUMINOR 2280

(Contd. of page 1)

## **1. Additional release measures**

### **\*Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.  
Avoid causing dust.

### **\*Measures for environmental protection:**

Inform respective authorities in case product reaches water or sewage system.

### **\*Measures for cleaning/collecting:**

Collect mechanically.  
Do not flush with water or aqueous cleansing agents

### **\*Additional information:** See Section 7 for information on safe handling

## **2. Handling and storage**

### **\*Handling**

#### **\*Information for safe handling:**

Store in cool, dry place in tightly closed containers.  
Prevent formation of dust.  
Any deposit of dust which cannot be avoided must be removed regularly.

#### **\*Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

### **\*Storage**

#### **\*Requirements to be met by storerooms and containers:** No special requirements.

#### **\*Information about storage in one common storage facility:** Not required.

#### **\*Further information about storage conditions:**

Keep container tightly sealed.  
Store in cool, dry conditions in well sealed containers.

## **3. Exposure controls and personal protection**

### **\*Additional information about design of technical systems:** No further data; see item 7.

### **\*Components with critical values that require monitoring at the workplace:**

copper powder

TLV 1 mg/m<sup>3</sup>

### **\*Additional information:** The lists that were valid during the compilation were used as basis.

### **\*Personal protective equipment**

#### **\*General protective and hygienic measures**

Wash hands during breaks and at the end of the work.

#### **\*Breathing equipment:** Not required.

#### **\*Protection of hands:** Not required.

#### **\*Material of gloves**

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 can not be calculated in advance and has therefore to be checked prior to the application.

#### **\*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.

#### **\*Eye protection:** Not required.

#### **\*Body protection:** Protective work clothing.

(Contd. on page 9<sup>B</sup>)

# Material Safety Data Sheet

## According to 91/155 EEC

Printing date 27.04.2004

Reviewed on 27.04.2004

Trade name: COPPER POWDER LUMINOR 2280

(Contd. of page 2)

### 9 Physical and chemical properties

#### \* General Information

**Form:** Powder  
**Colour:** Copper coloured  
**Smell:** Odourless

#### \* Change in condition

**Melting point/Melting range:** 1083°C  
**Boiling point/Boiling range:** > 999°C

**\* Flash point:** Not applicable

**\* Inflamability (solid, gaseous)** Flammable.  
 Entzündlich

**\* Self-inflamability:** Product is not selfigniting.

**\* Danger of explosion:** Product is not explosive.

**\* Steam pressure at 20°C:** 0 mbar

**\* Density at 20°C** 8.96 g/cm3

**\* Settled apparent density at 20°C** 0.6-0.7 g/cm3

**\* Solubility in / Miscibility with Water:** Insoluble

### 10 Stability and reactivity

#### \* Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

**\* Dangerous reactions** No dangerous reactions known

**\* Dangerous products of composition:** No dangerous decomposition products known

### 11 Toxicological information

#### \* Acute toxicity:

#### \* Primary irritant effect:

**\* on the skin:** No imitant effect.

**\* on the eye:** No irritant effect.

**\* Sensitization:** No sensitizing effect known.

### 12 Ecological information

#### \* General notes:

Generally not hazardous for water.

—

### 13 Disposal considerations

#### \* Product:

#### \* Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 4)

# **Material Safety Data Sheet** According to 91/155 EEC

Printing date 27.04.2004

Reviewed on 27.04.2004

Trade name: COPPER POWDER LUMINOR 2280

(Contd. of page 3)

**\* European waste catalogue**

12 01 04 non-ferrous metal dust and particles

**\* Uncleaned packagings:****\* Recommendation:** Disposal must be made according to official regulations.**1.1 Transport information****\* Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)****\* ADR/RID-GGVS/E Class:** 4.1 Flammable solids.**\* Kemler Number:** 40**\* UN-Number:** 3089**\* Packaging group:** II**\* Label** 4.1**\* Maritime transport IMDG/GGVSea:****\* IMDG/GGVSea Class:** 4.1**\* UN Number:** 3089**\* Label** 4.1**\* Packaging group:** II**\* EMS Number:** F-G, S-G**\* Marine pollutant:** PP**\* Correct technical name:** METAL POWDER, FLAMMABLE, N.O.S.**\* Air transport ICAO-TI and IATA-DGR:****\* ICAO/IATA Class:** 4.1**\* UN/ID Number:** 3089**\* Label** 4.1**\* Packaging group:** II**\* Correct technical name:** METAL POWDER, FLAMMABLE, N.O.S.**1.2 Regulatory information****\* Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

**\* Risk phrases:**

10 Flammable.

**\* Safety phrases:**

7/8 Keep container tightly closed and dry.

(Contd. on page 5)

**Material Safety Data Sheet**  
**According to 91/155 EEC**

Printing date 27.04.2004

Reviewed on 27.04.2004

**Trade name: COPPER POWDER LUMINOR 2280**

43 In case of fire, use sand. Never use water.

(Contd. of page 4)

**\* National regulations**

**\* Water hazard class:**

Generally not hazardous for water.

--

**16. Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**\* Department issuing data specification sheet:** Department QSI

**\* Contact:** Dipl.-Ing.(FH) Milsterfer

**\*\* Data compared to the previous version altered.**