

Reviewed on 07.06.2005 Printing date 07.06.2005

1 Identification of the substance/preparation and of the company/undertaking

- · Product details
- · Trade name: Cuprous Oxide, red
- · Application of the substance / the preparation Industrial chemicals
- · Manufacturer/Supplier:

Spiess-Urania Chemicals GmbH Heidenkampsweg 77 D-20097 Hamburg +49(0)40-23652-0

- · Further information obtainable from: Supply Chain Management
- Information in case of emergency:

+49(0)40-23652-0

After 4:00 p.m. +49(0)40-78833366

2 Composition/information on ingredients

- · Chemical characterization
- · **Description:** Mixture of substances listed below with nonhazardous additions.
- · Dangerous components:

CAS: 1317-39-1 EINECS: 215-270-7

dicopper oxide

Xn, N; R 22-50/53 > 97%

· Additional information: For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

· Hazard description:





Xn Harmful

N Dangerous for the environment

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 22 Harmful if swallowed.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 First-aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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· After inhalation:

Supply fresh air and to be sure call for a doctor.

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.
- · After swallowing: Call for a doctor immediately.

5 Fire-fighting measures

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

· Person-related safety precautions:

Avoid formation of dust.

Ensure adequate ventilation

· Measures for environmental protection:

Do not allow to enter sewers/surface or ground water.

Keep contaminated extinguish water and dispose of appropriately.

· Measures for cleaning/collecting: Dispose contaminated material as waste according to item 13.

7 Handling and storage

- · Handling:
- Information for safe handling:

Provide suction extractors if dust is formed.

Prevent formation of dust.

- · Information about fire and explosion protection: No special measures required.
- · Storage:
- Requirements to be met by storerooms and receptacles: Store dry and cool.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: None.
- · Recommended storage temperature: from -30 °C to 50 °C
- · Storage class: 13 (VCI)

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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- · Additional information: The lists valid during the making were used as basis.
- · Personal protective equipment:
- · General protective and hygienic measures:

Do not eat or drink while working.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- · Recommended filter device for short term use: Filter P2
- Protection of hands:



Protective gloves

- · Material of gloves PVC gloves
- · Penetration time of glove material

Value of permeation : Level 6, > 480 min ; EN 374

The exact break trough time has to be found out by the manufacturer of the protective gloves and

has to be observed.

- Eye protection: Goggles in case of dust.
- · Body protection: Protective work clothing

General Information	
Form:	Powder
Colour:	Red
Odour:	Characteristic
Change in condition Melting point/Melting range: Boiling point/Boiling range:	
Flash point:	Not applicable.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Density:	
Bulk density at 20°C:	1500-2000 kg/m³
Solubility in / Miscibility with water:	Insoluble.



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10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Dangerous reactions Reaction with acids.
- · Dangerous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Acute toxicity:
- LD/LC50 values relevant for classification:

Oral LD50 470 mg/kg (rat)

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful

12 Ecological information

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- · Product:
- · Recommendation

Must be specially treated adhering to official regulations.

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

· European waste catalogue

06 11 99 wastes not otherwise specified

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

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14 Transport information

· Land transport ADR/RID (cross-border)



· ADR/RID class: 9 (M7) Miscellaneous dangerous substances and articles.

Danger code (Kemler): 90
UN-Number: 3077
Packaging group: III
Hazard label 9

· Description of goods: 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(dicopper oxide)

· Maritime transport IMDG:



· IMDG Class: 9
 · UN Number: 3077
 · Label 9
 · Packaging group: III
 · EMS Number: F-A,S-F

· Marine pollutant: -

· Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(dicopper oxide)

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class: 9 · UN/ID Number: 3077 · Label 9 · Packaging group: III

· Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(dicopper oxide)

15 Regulatory information

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:

Xn Harmful

N Dangerous for the environment

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· Hazard-determining components of labelling: dicopper oxide

· Risk phrases:

22 Harmful if swallowed.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Safety phrases:

- 2 Keep out of the reach of children.
- 22 Do not breathe dust.
- 60 This material and its container must be disposed of as hazardous waste.
- 61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- · National regulations:
- · Breakdown regulations: -
- · Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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.

· Relevant R-phrases

- 22 Harmful if swallowed.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- · Department issuing MSDS: Supply Chain Management
- · Contact: P.Himmelreich, Phone: +49(0)6359-801-344

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