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Material Safety Data Sheet According to 91/155 EEC

Eingang: 25.01.2007

рв<mark>с 10047692</mark>

Printing date 22.01.2007 Reviewed on 27.12.2006

1 Identification of substance:

· Product details:

· Trade name: KUPFER (II)-CHLORID, 2-HYDRAT

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· Article number: 201537

· Application of the substance / the preparation Catalyst

· Manufacturer/Supplier: GOLDSCHMIDT TIB GmbH Mülheimer Str. 16-22 D-68219 Mannheim/Germany Telefon: +49(0)621/8901-0

· Informing department:

PRODUKTSERVICE

Tel.: +49(0)621 8901 710 Fax.: +(49)0621 8901 936

· Emergency information: Telefon Nr.: +49(0)621 8901 700 Telefax Nr.:+49(0)621 8901 900

2 Composition/Data on components:

· Chemical characterization:

· CAS No. Designation: 7447-39-4 Kupferdichlorid

Identification number(s): 231-210-2

· EINECS Number: 231-210-2

3 Hazards identification

· Hazard designation:





Xn Harmful

N Dangerous for the environment

· Information pertaining to particular dangers for man and environment

R 22 Harmful if swallowed.

R 36/38 Irritating to eyes and skin.

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

4 First aid measures

- · General information Remove contaminated clothing.
- · After inhalation Supply fresh air; consult doctor in case of symptoms.
- · After skin contact

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- · After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.
- · After swallowing

Rinse out mouth and then drink plenty of water.

Induce vomiting and call for medical help.

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5 Fire fighting measures

· Suitable extinguishing agents

Product itself it does not burn, extinguishing measures to suit surroundings.

- · Protective equipment: No special measures required.
- · Additional information Collect contaminated fire fighting water separately. It must not enter drains.

6 Accidental release measures

- · Person-related safety precautions: Wear protective clothing.
- · Measures for environmental protection:

Do not allow to enter the ground/soil.

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

· Measures for cleaning/collecting:

Dispose of contaminated material as waste according to item 13.

7 Handling and storage

- · Handling
- · Information for safe handling: Prevent formation of dust.
- · Information about protection against explosions and fires: The product is not flammable
- 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 under dry conditions.

8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the compilation were used as basis.
- · Personal protective equipment
- · General protective and hygienic measures

Do not eat, drink or smoke while working.

Take off immediately all contaminated clothing

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

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

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

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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· Material of gloves

Rubber 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.

· Penetration time of glove material

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

- · Eye protection: Tightly sealed safety glasses.
- · Body protection: Protective work clothing.

9 Physical and chemical properties:

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· General Information	
Form: Colour: Odour:	Crystalline blue-green Odourless
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	
· Flash point:	Not applicable
· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive.
· Vapour pressure at 20℃:	ca. 10 hPa
· Specific gravity:	
· Bulk density:	ca. 1000 kg/m³
· Solubility in / Miscibility with Water at 20°C:	770 g/l
· pH-value (100 g/l) at 20℃: · Organic solvents:	3 0.0 %

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: ca. 110 °C
- · Dangerous reactions

Reacts with strong oxidizing agents

Violently reaktion with powders of base metals.

· Dangerous products of decomposition: Chlorine

11 Toxicological information

- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritant effect.
- · Sensitization: No sensitizing effect known.

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· Additional toxicological information:

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

Harmful Irritant

12 Ecological information:

- · Ecotoxical effects:
- · Remark: Very toxic for fish
- · General notes:

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

13 Disposal considerations

- · Product:
- · Recommendation Must be specially treated under adherence to official regulations.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

· Land transport ADR/RID (cross-border)



· ADR/RID-GGVS/E Class: 8 (C2) Corrosive substances.

Kemler Number: 80
UN-Number: 2802
Packaging group: III
Label 8

· Designation of goods: 2802 COPPER CHLORIDE

· Maritime transport IMDG:



· IMDG Class: 8
· UN Number: 2802
· Label 8
· Packaging group: III
· EMS Number: F-A,S-B
· Marine pollutant: Yes

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Trade name: KUPFER (II)-CHLORID, 2-HYDRAT

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· Proper shipping name: COPPER CHLORIDE

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class: 8
· UN/ID Number: 2802
· Label 8
· Packaging group: III

· Proper shipping name: COPPER CHLORIDE

15 Regulatory information

· Designation according to EC guidelines:

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

· Code letter and hazard designation of product:





Xn Harmful

N Dangerous for the environment

· Risk phrases:

22 Harmful if swallowed.

36/38 Irritating to eyes and skin.

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

· Safety phrases:

22 Do not breathe dust.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 36/37 Wear suitable protective clothing and gloves.

57 Use appropriate container to avoid environmental contamination.

Avoid release to the environment. Refer to special instructions/safety data sheets.

- National regulations
- · Water hazard class: Water hazard class 2 (Assessment by list): hazardous for water.
- · Other regulations, limitations and prohibitive regulations

When fumes, dusts or mists are exausted local environmental regulations are to be observed.

16 Other information:

The information contained herein 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.