

Material Safety Data Sheet

COPPER OXYCHLORIDE MSDS

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Trade name: COPPER OXYCHLORIDE 53 - 54 BLUE

Trade code: SB002

Product type and use: Fungicide

Contact Information:

Shanghai Huating Chemicals Factory Co.,Ltd

Rm 2306, No.382, Tacheng Rd, Jiading, Shanghai

Tel:+86-21-5952 2390

Fax:+86-21-69988155

Email:huatingchem@gmail.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:

90% - 100% copper oxychloride tech. (57-58)

CAS: 1332-40-7

N Xn R20/22 R50/53

3. HAZARDS IDENTIFICATION

The product is harmful following acute exposure to it and poses a serious health threat if inhaled or ingested. This product is a threat to the environment; it is highly toxic for aquatic organisms following acute exposure. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Contact with skin:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Contact with eyes:

Wash immediately with water for at least 10 minutes.

Swallowing:

Induce vomiting. SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety-data sheet.

Give liquid paraffin to drink; do not give milk or animal or vegetable fats of any kind.

Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. OBTAIN MEDICAL ATTENTION.

5. FIRE-FIGHTING MEASURES

Recommended extinguishers:

Water, CO₂, Foam, Chemical powders, according to the materials involved in the fire.

Extinguishers not to be used:

None in particular.

Risks arising from combustion:

Avoid inhaling the fumes which, at high temperatures, may contain toxic substances such as HCl.

Protective equipment:

Use protection for the respiratory tract. Self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Use gloves and protective clothing.

Environmental measures:

Limit leakages with earth or sand.

If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

Cleaning methods:

If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.

After the product has been recovered, rinse the area and materials involved with water.

7. HANDLING AND STORAGE

Handling precautions:

Avoid contact and inhalation of the vapours. See, too, paragraph 8 below.

Do not eat or drink while working.

Incompatible materials:

None in particular.

Storage conditions:

Instructions as regards storage premises:

Adequately ventilated premises.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.

Respiratory protection:

Use adequate protective respiratory equipment, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Eye protection:

Not needed for normal use.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Exposure limit(s) (ACGIH):

ame ossicloruro tecnico (57-58)

TLV TWA: 1 mg/m³ (come Cu)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour: Blue solid

Odour: odourless

pH: 6 - 8 (1% in water)

Solid/gas flammability: Not flammable

Autoignition temperature: Non auto-flammable

Solubility in water: Insoluble

Lipid solubility: Insoluble

10. STABILITY AND REACTIVITY

Conditions to avoid:

Stable under normal conditions.

Substances to avoid:

None in particular.

Hazardous decomposition products:

None.

11. TOXICOLOGICAL INFORMATION

The concentration of each substance should be borne in mind in assessing the toxicological effects deriving

from the preparation.

copper oxychloride tech. (57-58)

LD50 (oral): 1862 mg/kg (rat)

LD50 (dermal): > 2000 mg/kg (rat)

LC50 (4h) (inhalation):

2.83 mg/l air (rat, male)

> 2.77 mg/l air (rat, female)

Irritating power:

Skin: not irritant.

Eyes: slightly irritant.

Respiratory system: not irritant.

Sensitization:

Not sensitizing agent.

Carcinogenic effects:

No carcinogenic effect

Mutagenic effects:

No mutagenic effect

Teratogenic effects:

No teratogenic effect

12. ECOLOGICAL INFORMATION

Adopt good working practices, so that the product is not released into the environment.

List of substances dangerous for the environment and corresponding classification:

90% - 100% copper oxychloride tech. (57-58)

CAS: 1332-40-7

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Fish-

Onchorincus mykiss, LC50 (96h): 0.217 mg/l

Daphnia-

Daphnia magna, LC50 (48h): 0.29 mg/l

Algae-

Scenedesmus Subspicatus, EC50 (72h): 56.3 mg/l

Mobilità: non mobile

Persistenza/degradabilità:

Non degradabile

13. DISPOSAL CONSIDERATIONS

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

ADR-UN number: 3077

ADR-Class: 9

ADR-Upper number: 90

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (cupric products)

ADR-Label: 9

ADR-Packing Group: III

Rail (RID): 9

Marine pollutant: Marine pollutant

IMDG-Un number: 3077

IMDG-Class: 9

IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (cupric products)

IMDG-Packing group: III

IMDG-Label: 9 + Marine Pollutant

IMDG-EMS: F-A, S-F

15. REGULATORY INFORMATION

88/379/EEC (Classification and Labelling):

Symbols:

Xn Harmful

N Dangerous for the environment

R Phrases:

R20/22 Harmful by inhalation and if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrases:

S57 Use appropriate container to avoid environmental contamination.

S60 This material and its container must be disposed of as hazardous waste.

Contents:

copper oxychloride tech. (57-58)

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.

16. OTHER INFORMATION

Text of R phrases referred to under heading 2:

R20/22 Harmful by inhalation and if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

ACGIH - Threshold Limit Values - 1997 edition

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