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Safety Data Sheet dated 14/6/2004, version 1

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Trade name: ISACOP
Trade code: SC505
Product type and use: Fungicide
Company:
ISAGRO S.p.A. – Via Caldera, 21 - Milano - ITALY
Emergency telephone number of the company and/or of an authorised advisory centre:
Phone n.. ++39 02 40 901 276

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:
87 % copper oxychloride technical (57-58)
CAS: 1332-40-7
N Xn R20/22 R50/53

3. HAZARDS IDENTIFICATION

If brought into contact with the eyes, the product causes considerable irritation which can last for over 24 hours.
If inhaled, the product may cause sensitisation of the airways, and if brought into contact with the skin it may cause sensitisation of the skin.

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 and thoroughly with running water, keeping eyelids raised, for at least 10 minutes. Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief. OBTAIN A MEDICAL EXAMINATION.
Do not use eyewash or ointment of any kind (before obtaining an examination or advice from an eye specialist).

Swallowing:
Do not induce vomiting. SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety-data sheet.
A suspension of activated charcoal in water, or liquid paraffin may be administered.

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 HCl.

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

6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:
Use a mask, gloves and protective clothing.

Environmental measures:
Limit leakages with earth or sand.

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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:

Rapidly recover the product. To do so, wear a mask and protective clothing.

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.

Do not smoke 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 respiratory protection where ventilation is insufficient or exposure is prolonged, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).

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:

Use close fitting safety goggles and/or visor conforming to BS 2092 GRADE 1).

Protection for skin:

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

Exposure limit(s) (ACGIH):

copper oxychloride technical (57-58)

TLV TWA: 1 mg/m³ (come Cu)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:

Dust

Odour:

odourless

pH:

7-8 (suspension 1% in water)

Solid/gas flammability:

Not flammable

Solubility in water:

Disperdible

10. STABILITY AND REACTIVITY

Conditions to avoid:

Stable under normal conditions.

Substances to avoid:

None in particular.

Hazardous decomposition products:

None.

11. TOXICOLOGICAL INFORMATION

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Data referred to formulation:

Acute toxicity:

LD50 (oral):

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2364 mg/kg (rat, male)
2084 mg/kg (rat, female)
Irritating power:
Not irritant (rabbit)
Sensitization
Not sensitizer

Copper oxychloride tech. (57-58)
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 sensitizer

Carcinogenicity:
No carcinogenic effect

Mutagenicity
No mutagenic effect

Teratogenicity
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:

80% - 90% copper oxychloride technical (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

Mobility: not mobile

Environmental fate:
Not degradable

13. DISPOSAL CONSIDERATIONS

Recover if possible. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

ADR-UN number:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (cupric products)
ADR-Class:	9
ADR-Upper number:	90
ADR-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (cupric products)

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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

Symbols:

Xn Harmful
N Dangerous for the environment

R Phrases:

R20 Harmful by inhalation
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S Phrases:

S2 Keep out of reach of children.
S13 Keep away from food, drink and animal feedingstuffs.
S20/21 When using do not eat, drink or smoke.
S46 If swallowed, seek medical advice immediately and show this container or label.
S56 Dispose of this material and its container at hazardous or special waste collection point.

Contents:

copper oxychloride technical (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 - Treshold Limit Values - 1997 edition

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.