
Safety Data Sheet for use in USA 01/24/10

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Trade name: **BADGE™ SC**
Trade code: SC501
EPA Reg. No.: 80289-3
Product type and use: Fungicide
Company: Isagro USA- 430 Davis Dr., Suite 240, Morrisville NC 27560
Subsidiary of: Isagro S.p.A. – Via Caldera, 21 – 20153 Milano, Italy
Emergency telephone numbers:
Isagro USA (919) 321-5200 / CHEMTREC (800) 421-9300

2. COMPOSITION/INFORMATION ON ACTIVE INGREDIENTS

10% - 12.5% (metallic copper) Copper Oxychloride technical
CAS: 1332-40-7

10% - 12.5% (metallic copper) Copper Hydroxide
CAS: 20427-59-2

3. HAZARDS IDENTIFICATION

CAUTION: Harmful if absorbed through skin. Harmful if swallowed. Avoid contact with skin, eyes or clothing.

4. FIRST AID MEASURES

Contact with skin:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.
- Call a poison control center or doctor for treatment advice.

Swallowing:

- Call a poison control center or doctor immediately for treatment advice.
 - Have person sip a glass of water if unable to swallow.
 - Do not induce vomiting unless told to do so by a poison control center or doctor.
 - Do not give anything by mouth to an unconscious person.
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5. FIRE-FIGHTING MEASURES

Recommended extinguishers:

BADGE SC is not flammable or explosive. Use 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.

Protective equipment:

Use standard protection equipment according to the materials involved in the fire.

6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Use gloves and protective clothing (see Section 8).

Environmental measures:

Control spills with soil or sand. If the product has entered a waterway and/or drainage system, or has contaminated the ground and/or vegetation, notify the competent authorities.

Cleaning methods:

Rapidly recover the product and prevent it from entering into drainage systems, if possible. In so doing wear protective clothing (see Section 8). The product might, where appropriate, be absorbed by inert material. After the product has been recovered, rinse the area and contaminated materials involved with water. Dispose unrecoverable product, absorbant material and/or rinsate solids as hazardous substance (see Section 13).

7. HANDLING AND STORAGE

- Handling precautions:
Do not eat, drink or smoke while working.
- Incompatible materials:
None in particular.
- Storage conditions:
Store in a cool, dry place
- Instructions regarding storage premises:
Adequately ventilated premises.
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Precautionary measures:
Give adequate ventilation to the premises where the product is stored and/or handled.
- Respiratory protection:
Not needed for normal use.
- Protection for hands:
Use chemical resistant gloves made of waterproof material, such as polyvinyl chloride, nitrile rubber, or butyl rubber.
- Eye protection:
Not needed for normal use, but recommended while working.
- Protection for skin:
Use coveralls (long sleeve shirt and pants) and shoes plus socks
- Exposure limit(s) (ACGIH):
None
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9. PHYSICAL AND CHEMICAL PROPERTIES

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|-------------------------|-------------------------------|
| Appearance and colour: | Blue liquid. |
| Odour: | Odourless |
| pH: | 6 - 8 (aqueous suspension 1%) |
| Flamibility properties: | Not flammable |
| Explosive properties: | Not explosive |
| Relative density: | 1.365 kg/l |
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10. STABILITY AND REACTIVITY

- Conditions to avoid:
Stable under normal conditions.
- Substances to avoid:
None in particular.
- Hazardous decomposition products:
None.
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11. TOXICOLOGICAL INFORMATION

- Acute toxicity:
LD50 (oral): >2000 mg/kg b.w. (rat)
LD50 (dermal): > 2000 mg/kg b.w. (rat)
LC50 (4h) (inhalation): > 3.994 mg/l air (rat) (max attainable conc.)
- Irritation:
Skin: not irritant (rabbit).
Eyes: not irritant (rabbit).
- Sensitization:
Not sensitizing agent.
- Data referred to technical Copper Oxychloride and Copper Hydroxide:
Carcinogenic effects:
No carcinogenic effects.
- Mutagenic effects:
No mutagenic effects.
- Teratogenic effects:
No teratogenic effects.

12. ECOLOGICAL INFORMATION

List of substances dangerous for the environment and corresponding classification:

Data referred to technical Copper Oxychloride

Fish (*Onchorincus mykiss*): LC50 (96h): 0.217 mg Cu/L

Freshwater invertibrate (*Daphnia magna*): LC50 (48h): 0.29 mg Cu/L

Algae (*Scenedesmus Subspicatus*): EC50 (72h): 56.3 mg Cu/L

Data referred to technical Copper Hydroxide

Fish (*Onchorincus mykiss*): LC50 (96h): 0.0165 mg Cu/L

Freshwater invertibrate (*Daphnia magna*): LC50 (48h): 0.0422 mg Cu/L

Algae (*Scenedesmus Subspicatus*): EC50 (72h): 22.5 mg Cu/L

List of substances dangerous for the environment and corresponding classification:

Copper Oxychloride technical

CAS: 1332-40-7

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

Copper Hydroxide technical

CAS: 20427-59-2

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

13. DISPOSAL CONSIDERATIONS

Recover if possible. Send non-recoverable product, absorbant material, and rinsate solids 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

DOT-UN Number:	N/A
DOT-Class:	N/A
DOT-Shipping Name:	N/A (pesticide-non regulated)
DOT-Label/Placard:	N/A
DOT-Packing Group:	N/A
DOT-Marine Pollutant:	Yes [regulated only for bulk packaging and vessel (i.e. barge shipments) (49 CFR 171, 4(c)). In these cases follow IMDG information below for appropriate labeling and classification]
ADR/RID-UN number:	3082
ADR/RID-Class:	9
ADR/RID-Packing group:	III
ADR/RID-Shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID. N.O.S. (10-12.5% copper oxychloride and 10-12.5% copper hydroxide as metallic copper)
ADR/RID-Label/Placard:	9
ADR/RID Marine pollutant:	Yes (add description and Environmentally Hazardous Substance label for vessel shipment only)
IMDG-UN number:	3082
IMDG-Class:	9
IMDG-Packing group:	III
IMDG-Shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID. N.O.S. (10-12.5% copper oxychloride and 10-12.5% copper hydroxide as metallic copper)
IMDG-Label:	9 + Environmentally Hazardous Substance label
IMDG-EmS:	-

15. REGULATORY INFORMATION

USEPA Registration Number 80289-3

16. OTHER INFORMATION

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 for use in the US.