

VILLA COPPASULFA

MATERIAL SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: COPPASULFA
 Fungicide + Miticide

UN No.: 1350

Supplier: Villa Crop Protection (Pty) Ltd.
 PO Box 10413,
 Aston Manor, 1630, South Africa

Telephone: (011) 396 2233

Fax: (011) 396 4777

Website: www.villacrop.co.za

Emergency telephone numbers:

24 Hr Transport / Spill emergency no:

Envirosure. +27 31 205 4918
 (Hazcall24) +27 86 044 4411

(Client: Villa Crop Protection)

Griffon Poison Information Centre +27 82 446 8946

(Client: Villa Crop Protection)

Poisoning Emergency telephone numbers:

Griffon Poison Information Centre +27 82 446 8946

Poisons Information Centre +27 861 555 777

Villa Crop Protection Emergency number:

National Safety, Health and Environmental Manager:
 +27 63 698 0668

2. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name: Copper Oxychloride + Sulphur

Chemical Name: Copper Oxychloride + Sulphur

CAS No.: 1332-40-7 + 7704-34-9

Chemical formula: $ClCu_2H_3O_3 + S_8$

Molecular weight: 213.6 + 32.1

Use: Fungicide + Miticide

Formulation: Copper Oxychloride + Sulphur
 Dusting Powder

INGREDIENTS	CAS NO.	PERCENTAGE
Copper oxychloride	1332-40-7	8.5
Sulphur	7704-34-9	90

Symbol: X_i, N

Indication of danger: Mild eye and skin irritant and environmentally hazardous substance.

Risk Phrases: R 10, R 36/38, R 51

3. HAZARD IDENTIFICATION

Toxicity class: WHO III EPA III
 Caution.

Likely routes of exposure: Skin and eye contact and ingestion.

Skin: Slight irritant.

Eye contact: Slight irritant.

Ingestion: Negligible.

Inhalation: Negligible.

4. FIRST AID MEASURES AND PRECAUTIONS

Note to Doctor: treat symptomatically and supportively.

If poisoning occurs, contact a doctor or Poisons Information Centre.

Skin contact: Remove any contaminated clothing, shoes and leather goods. Gently wipe off excess chemicals. Wash skin thoroughly with mild soap and water. Seek medical advice if necessary. Persons who become sensitized may require specialized medical management with anti-inflammatory agents.

Eye Contact: Immediately flush the eyes with gently flowing lukewarm water or sodium bicarbonate solution for 20 to 30 minutes, occasionally lifting the upper and lower lids. Inadequate irrigation may increase irritation. Do not use Boric Acid.

Ingestion: Ingestion of large quantities: induce vomiting or empty stomach by aspiration and lavage. Demulcents such as milk or egg white should be given freely.

Inhalation: Remove from source of contaminated to open space/fresh air, maintain respiration. Administer 100 % humidified supplement oxygen with assisted ventilation as required.

Advice to physician: There is no specific antidote. Treat symptomatically and supportively as and when required. Symptoms may be delayed by up to 48 hours following ingestion. Thus a patient ingesting undiluted product should be treated as indicated above.

5. FIRE FIGHTING MEASURES

Explosive limits (Sulphur dust): 35 – 1 400 g/cm³ in air.

Extinguishing media: Water fog. DO NOT use halogens.

Special firefighting procedures:

Fight fire from maximum distance. Remove container from fire area if possible. Contain fire control agents for later disposal.

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Flame, static electricity or friction spark readily ignites dust suspended in the air. Every reasonable step must be taken to minimize dust formation. Dust tight casings should be equipped with explosion relief vents. Sparkles electrical equipment must be grounded or bonded to avoid static electricity. Keep away from sources of flame or sparks.

Firefighting: Remove spectators from surrounding area. Evacuate downwind. Remove container from fire area if possible. Use a recommended extinguishing agent for the type of surrounding fire. Avoid inhaling hazardous vapours and fumes from burning materials.

Personal protective equipment: Fire may produce irritating or poisonous vapours, mists or other products of combustion. Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Spills: Do not use metal shovels or brooms. Take up in dry state without forming dust (dampen if necessary) into disposal containers.

Personal precautions: Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8.

Environmental precautions: Do not allow entering drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs.

Occupational spill: Remove all sources of flames and sparks. For small spills, soak up with any inert absorbent material such as granular clay, saw dust or pet litter. Place in an approved chemical waste container for disposal. Rinse spill area with small amount of soapy water. Contain and absorb the rinsate with inert absorbents and place into the same disposal container. Area can be washed with water to remove the last trace residue. For large liquid spills, emanate all ignition sources. Stop leak if you can do so without coming into contact with the spilled material. All equipment used to clean up spill should be grounded. Do not flush spilled material into drains. Keep spectators away.

7. HANDLING AND STORAGE REQUIREMENTS

Storage: Store in the closed, original container in a well ventilated area and as cool as possible. Do not store for long periods in direct sunlight.

Handling: Avoid contact with eyes, mouth, prolonged contact with skin, and inhalation of spray and fumes. Handle product with caution. Use with adequate

ventilation. Wash hands before eating, drinking, chewing gum, smoking or using the toilet. Remove clothing immediately if the herbicide gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. Operators should change and wash clothing after use. Water used to clean equipment must be disposed of correctly to avoid contamination.

Storage: Store in its original, labelled and closed container in dry, cool, shaded, well-ventilated area, away from heat, sparks and other sources of ignition. Keep container tightly closed when not in use. Do not store with other pesticides, fertilizer, seeds, foodstuffs and water supplies. Store away from incompatible substances. Keep out of reach of unauthorized persons, children and animals. Local regulations should be complied with.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

It is essential to provide adequate ventilation. Provide local exhaust or general dilution ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire and other applicable regulations.

PERSONAL PROTECTIVE EQUIPMENT: If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection.

Respirator: If the product is used in dusty or confined conditions, a mask or respirator suitable for protection from dusts and mists of pesticides is adequate.

Clothing: Chemical resistant protective gloves, hard hat and safety shoes are recommended to prevent prolonged skin contact. Do not wear leather clothing. Person must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

Gloves: Employee must wear appropriate synthetic protective gloves to prevent contact with this substance.

Eye protection: Wear safety goggles, full face shield in addition if splashing is possible.

Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this substance; the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odour: Solid, yellow powder which may have a slight **Sulfur** odour.
Solubility in water: Miscible in water.
pH: Not available
Melting point: 119 Deg. C
Vapour Pressure at 20 Deg. C: >0.001mm
Particle size: 1.25% retention on 75 µm sieve (BS200)
Flammable.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Reactivity: DNA.
Stability: Stable under normal temperatures and storage conditions.
Storage stability: **Stable for 2 years under normal warehouse conditions. Stable in cool place in temperature below 20°C.**
Conditions to avoid: Exposure to extreme heat, do not allow to evaporate from product.

11. TOXICOLOGICAL INFORMATION

Acute Effects: Eye: Slight irritant. May irritate inner surfaces of eyelids.
Skin: Slight irritant.
Ingestion: Relatively non-toxic. It can be taken in fairly large doses without injury.
Inhalation: May irritate mucous membranes of respiratory passages.
Irritant effects: Slight sensitizer.
Other health effects: Non mutagenic.
Target Organs: Eyes, skin, respiratory system.

Acute oral LD₅₀: 3711 mg/kg (calc.)
Acute dermal LD₅₀: 2030 mg/kg (calc.)
Inhalation: LC₅₀: > 5.43 (4h) (Dusting sulphur tech.)
Acute skin irritation: Slight irritant.
Skin Sensitizer: Slight skin sensitizer.
Acute eye irritation: Slight irritant.
Chronic effects: No chronic effects expected.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGY:
Sulfur is non-toxic to bees, fish and wild life.
Copper Oxychloride: **Toxic to fish**
Fish: LC₅₀ (47h) for rainbow trout 0.217 mg/l (Copper oxychloride tech.)

Bees: Not toxic.
Daphnia: LC₅₀ (24h) 0.29 mg/l (Copper oxychloride tech.).
Soil and Water: Strongly absorbed by soils, no leaching potential.
 Toxic to fish (Formulated product).

13. DISPOSAL CONSIDERATION

Waste Disposal Method: Dispose in accordance with local regulations. Destroy the empty containers in a safe and authorized place. Never re-use empty packs for any other purpose.
Pesticide disposal: Open dumping or burning of this pesticide is prohibited Waste resulting from the use of this product that cannot be reused or reprocessed. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal.
Container disposal: Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed.
 Do not re-use the empty container for any other purpose but destroy it by perforation and flattening and bury in an approved dumpsite. Prevent contamination of food, feedstuffs, drinking water and eating utensils.
 Comply with local legislation applying to waste disposal.

14. TRANSPORT INFORMATION

Type of Chemical: Physical mix **Sulfur** – non-metallic form + **Copper Oxychloride** –Salt.
State of Chemical: Solid.
UN No.: 1350
Road Transport ADR/IRD:
 Class: 4.1
 Packing group: III
 Shipping name: Sulphur
Air Transport ICAO/IATA:
 Class: 4.1
 Packing group: III
 Shipping name: Sulphur
Maritime Transport IMDG/IMO:
 Class: 4.1
 Packing group: III
 Shipping name: Sulphur

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15. REGULATORY INFORMATION

Symbol: X_i, N
Indication: Irritating substance, environmentally dangerous substance.

Risk phrases:
R 10 Flammable.
R 36/38 Irritating to eyes & skin.
R 51 Toxic to aquatic organisms.

Safety phrases:
S 2 Keep out of reach children.
S 24/25 Avoid contact with skin and eyes.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 61 Avoid release to the environment.

16. OTHER INFORMATION

Packaging: Packed in 10, 25, 50 kg containers/bags (plastic and carton) and labelled according to South African regulations and guidelines.

Disclaimer: The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed. All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

END OF DOCUMENT

Compiled: August 2016
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For detailed information on revisions, contact the Registration holder.

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