

Document no: 042MM Date created: July 2022 Revision date (version): Jan 2024 (2) FUNCAPTAN500SC/MM **Product Code:**

CAPTAN 500 SC

SAFETY DATA SHEET

CHEMICAL **PRODUCT** AND **COMPANY IDENTIFICATION**

CAPTAN 500 SC Product Name: Other identifier: Captan 500 SC Recommended use: Fungicide Restrictions on use: Agriculture

Universal Crop Protection (Pty) Ltd Supplier:

Co. Reg. No.: 1993/008184/07

PO Box 801,

Kempton Park, 1620, South Africa

EO 4070/0000 [ELLOUIO/OLD]

Telephone: (011) 396 2233 Fax: (011) 396 4666 Website: www.villacrop.co.za

Emergency telephone numbers: 24 Hr Transport / Spill emergency no:

(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

2. HAZARDS IDENTIFICATION

LIN OUG D. L.C.

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP]				
EU & SANS 10234:2008				
Hazard classes	Hazard categories	H-statements		
Health				
Dermal	Acute Toxicity 5 Skin irritation 3 Skin Sensitization 1	H313 H316 H317		
Eye	Eye Damage 1 H318			
Inhalation	Acute Toxicity 4	H332		
Respiratory Sensitization	Respiratory Sensitization 1	H334		
Carcinogenicity	Carcinogenicity 2	H351		
Environment				
Aquatic acute	Aquatic acute 1	H400		

The most important adverse effects: Physiochemical effects: None known.

Human health effects:

May be harmful in contact with skin.

Causes mild skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

Harmful if in haled.

May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

Suspected of causing cancer.

Label elements:



Signal word: Danger. **Hazard statements:**

H313: May be harmful in contact with skin.

H316: Causes mild skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H332: Harmful if inhaled.

H334: May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

H351: Suspected of causing cancer.

H400: Very toxic to aquatic life.

Precautionary statements:

P203: Obtain, read and follow all safety instructions before

P261: Avoid breathing fumes, mists or spray.

P264+P265: Wash hands thoroughly after handling. Do not touch eyes.

P271: Use only outdoors or in a well-ventilated area.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release into the environment.

P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.

P284: In case of inadequate ventilation wear respiratory protection.

P302+P352+P317: IF ON SKIN: Wash with plenty of water and non-abrasive soap. Get medical help.

P304+P340+P317: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.

P305+P354+P338+P317: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.

P318: IF exposed or concerned, get medical advice.

P333+P317: If skin irritation or rash occurs: Get medical

P342+P316: If experiencing respiratory symptoms: Get emergency medical help immediately.

P391: Collect spillage. P405: Store locked up.



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P501: Dispose of content/container to suitable landfill in accordance with local regulations.

Special labelling of certain mixtures:

None known.

Other hazards:
None known.

Toxicity:

Classification according to GHS: Category 4.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture.

Composition:

Chemical	CAS	Conc.	Classification EC
Name		(m/v%)	1272/2008
Captan	133-06-2	50%	Eye Damage 1 (H318) Skin Sensitization 1 (H317) Acute Toxicity 3 (H331) Carcinogenicity 2 (H351) Aquatic acute 1 (H400)
Monoethylene glycol	107-21-1	<5%	Acute Toxicity 4 (H302)
Emulsogen TS160	70559- 25-0	<5%	Aquatic chronic 3 (H412)
Morwet D-425	N/A	<5%	Respiratory Sensitization 1 (H334) Skin irritation 2 (H315) Eye irritation 2B (H320)
Proxel GXL	2634-33- 5	<1%	Acute Toxicity 4 (H302) Skin irritation 2 (H315) Eye Damage 1 (H318) Skin Sensitization 1 (H317) Aquatic Acute 1 (H400)

4. FIRST AID MEASURES

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure. If exposed or concerned, get medical advice.

Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention. If experiencing respiratory symptoms: Get emergency medical help immediately.

Skin: Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. **Obtain medical attention if irritation or rash occurs.**

Eyes: Flush eyes with clean water for at least 15 - 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. **Obtain medical attention.**

Ingestion: Seek medical attention or call a poison control centre for treatment advice. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.

Anticipated acute effects: May be harmful in contact with skin. Causes mild skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Anticipated delayed effects: Suspected of causing cancer

Most important symptoms/effects: None known.

Advice to physician: Treat symptomatically and supportively. No specific antidote known.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use carbon dioxide or dry chemical for small fires and water fog or foam for large fires.

Unsuitable Extinguishing Media: High volume water jet. Use a water jet only to cool heated containers

Specific hazards: None known.

Special fire-fighting procedures: Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Remain upwind of fire. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Contain fire control agents for later disposal. Avoid pollution of waterways by run-off from the site.

Personal protective equipment: Wear NIOSH / MSHA approved self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Harmful if inhaled. Avoid contact with eyes and skin. Do not breathe in spray mist or fumes. Ventilate area of spill or leak, especially in contained areas

Protective equipment: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.



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Emergency procedures: Alert firefighting personnel, evacuate unprotected personnel and animals.

Environmental Precautions: Prevent spilled product from entering sewers, waterways or ground water. This product is classified as very toxic to aquatic organisms. Any spillages or uncontrolled discharges into watercourses should be reported immediately to the police and the Department of Water / Environmental Affairs.

Methods and Materials for Containment: Contain spilled product by diking area with sand or earth. Methods and Materials for Clean-up: Cover contained spill with an inert absorbent material such as sand, vermiculite, earth or other appropriate material. Vacuum, scoop, or sweep up material and place the material into a clean, dry, sealable container. Label containers with the contents and dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spilled material. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. See section 13 for disposal considerations

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: Harmful if inhaled. Avoid contact with skin and eyes. Avoid breathing fumes, mists or spray. Ensure adequate ventilation during handling and use. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Keep containers closed when not in use. In the case of contact with the product refer to First Aid Measures – Section 4.

General occupational hygiene: Practice good hygiene when using this material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Launder all clothing before it is re-used again.

Storage:

Conditions for safe storage: Keep under lock and key and out of reach of unauthorised persons, children and animals. Store in its original, labelled container, tightly closed in an isolated, dry, cool and well- ventilated area. Avoid excess heat. Not to be stored next to foodstuffs, feed and water supplies. Avoid cross contamination with other pesticides and fertilisers.

Incompatible substances and mixtures: Refer to product label.

Packaging material: Plastic containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration: No occupational exposure limits have been determined for the significant ingredients in this product.

Engineering Controls:

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire and other applicable regulations.

Personal Protective Equipment:

Respiratory Protection: For most well-ventilated conditions, no respiratory protection should be needed. If used in a poorly ventilated area (airborne concentrations exceed exposure limits), use a NIOSH approved, airpurifying respirator with cartridges / canisters approved for organic vapours.

Hand Protection: The use of chemically protective impervious gloves is recommended to prevent against skin contact.

Eye Protection: Employees must wear chemical safety goggles to prevent against eye contact. Contact lenses are not protective eye devices.

Skin and Body Protection: Employees must wear appropriate protective impervious clothing, rubber boots, hat and equipment to prevent repeated or prolonged skin contact with this substance.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White liquid, suspension concentrate.

Odour: characteristic odour. pH (1 % aqueous dilution): 4 – 7. Melting point: 58 – 164 °C (Captan). Freezing Point: Not available. Boiling Point: Not available.

Flash Point: Not available.
Flammability: Not flammable.

Upper/lower explosion limits: Not explosive. **Vapour Pressure (mm Hg):** Not available. **Relative Vapour Density:** Not available. **Density/Relative density:** 1.257 g/ml.

Solubility: Suspends in water.

n-Octanol/water partition coefficient: K_{ow} 610 (captan).



Viscosity: Not available.

10. STABILITY AND REACTIVITY

temperatures and conditions.

Reactivity: None known.

strong reducing agents.

direct sunlight.

flames.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Chemical stability: The product is stable for two years at

ambient temperature and pressure, under normal storage

and handling conditions. Avoid storage under extreme

preferably below 30 °C, and not for prolonged periods in

Possibility of hazardous reactions: Unlikely to occur.

Conditions to avoid: Extreme heat or exposure to

Incompatible materials: Strong oxidizers, strong bases,

Hazardous decomposition products: Alcohols. carbon

monoxide and carbon dioxide may form under burning

Store below 50 °C,

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Brook trout 0.3 mg/ℓ

0.034 mg/ℓ

Daphnia:

EC₅₀ (48 h) 7-10 mg/e

Algae:

E_rC₅₀ (72 h) P. subcapitata 0.66 mg/ℓ

Birds:

Acute oral LD₅₀ Mallard ducks >2000 mg/kg

> and Bobwhite quail

Dietary LD_{50} Mallard ducks >5200 mg/kg diet

(5d)and

bobwhite quail

Bees:

LD₅₀ contact >200 µg/bee LD₅₀ oral >100 µg/bee

Worms:

LC50 (14 d) **Earthworms** 260 mg/kg

11. TOXICOLOGICAL INFORMATION

conditions or with incomplete combustion.

Calculated according to GHS.

Oral LD₅₀ (24 h) >10 000 mg/kg (rat). **Dermal LD**₅₀ (24 h) >4 700 mg/kg (rat).

Inhalation LC₅₀ (4 h) >1 mg/ ℓ (rat).

Skin Irritation/Corrosion: Causes mild skin irritation. Eye Damage/Irritation: Causes serious eye damage. Skin Sensitization: May cause an allergic skin reaction. Respiratory Sensitization: May cause allergy or asthma

symptoms or breathing difficulties if inhaled. Reproductive cell mutagenicity: Not classified. Carcinogenicity: Suspected of causing cancer.

Reproductive toxicity: Not classified.

Specific target organ toxicity - single exposure: Not

Specific target organ toxicity - repeated exposure:

Not classified.

Aspiration hazard: Not classified. Chronic Effects: Not available. **POTENTIAL ADVERSE EFFECTS:**

Inhalation: Harmful if inhaled.

Skin contact: May be harmful in contact with skin.

Eye contact: Causes serious eye damage.

Ingestion: Do not ingest.

12. ECOLOGICAL INFORMATION

This product is very toxic to aquatic life.

ECOTOXICITY DATA:

Captan Fish:

LC₅₀ (96 h) Rainbow trout 0.186 mg/ℓ

Bluegill sunfish

0.072 mg/e

Harlequin fish

ENVIRONMENTAL EFFECTS

Persistence and degradability: DT50 c. 1 d (25 °C,

pH 7.2, o.m. 1.2%)

Bio-accumulative potential: Not determined.

Mobility in soil: Soil Kd 3-8 (pH 4.5-7.2, o.m. 2.2-

6.7%).

Other adverse effects: Not determined.

13. DISPOSAL CONSIDERATIONS

Waste: Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product 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. The product may be taken to a registered waste disposal site or incineration plant.

Container: Emptied containers retain product residues. Do not re-use the empty container for any other purpose. Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank.

Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.



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14. TRANSPORT INFORMATION

UN NUMBER: 3082

Road Transport ADR/RID:

Class: 9 Packaging group: III

Shipping name: ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, LIQUID, N.O.S.

(captan 500 g/ℓ)

Maritime Transport IMDG/IMO:

Class: 9 Packaging group: III

Shipping name: ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, LIQUID, N.O.S.

(captan 500 g/ℓ)

Marine Pollutant: Yes Air Transport IATA/ICAO:

Class: 9
Packaging group: III

Shipping name: ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, LIQUID, N.O.S.

(captan 500 g/ℓ)

Special / Environmental Precautions: Wedge drums

tightly to avoid movement.

Transport in bulk: Refer to MARPOL 73/78, Annex II

and the IBC code.

15. REGULATORY INFORMATION

Safety, health and environmental regulations / legislation for the mixture:

OHSA 1993 Regulations for Hazardous Chemical

Substances.

Relevant information regarding restrictions: None. **EU regulation:** Regulation EC1272/2008 (EU-GHS/CLP)

Other national regulations: None.

Chemical Safety Assessment carried out? No

16. OTHER INFORMATION

Packaging: Packed in 250 & 500 millilitres and 1, 2, 5, 10, & 20 litres plastic containers, labelled according to South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:

H302: Harmful if swallowed. **H315:** Causes skin irritation. **H320:** Causes eye irritation. H331: Toxic if inhaled.

H412: Harmful to aquatic life with long lasting effects.

IATA: International Air Transport Association.

IBC: International Bulk Chemical.

ICAO: International Civil Aviation Organization. **IMDG:** International Maritime Dangerous Goods **IMO:** International Maritime Organization.

LD₅₀ **value:** The median lethal dose or the amount of a toxic agent that is sufficient to kill 50 percent of a population within a certain period of time.

OEL/RL: Occupational exposure limit-recommended limit.

PEL: Permissible Exposure Limits.

TWA: Time-weighted average – The average exposure over a specified period, usually a nominal eight hours.

ST/STEL: Short-term exposure limits.

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 and 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

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Revision no.: (2)

Next revision date: January 2029

For detailed information on revisions, contact the Registration holder.