

FLUABLOT 500 SC

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: FLUABLOT 500 SC
Other identifier: Fluazinam 500 SC
Recommended use: Fungicide
Restrictions on use: Agriculture and Small scale farming.

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

Telephone: (011) 396 2233
Fax: (011) 396 4666
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. HAZARDS IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008		
Hazard classes	Hazard categories	H-statements
Health		
Dermal	Acute Tox. 5	H313
	Skin Irrit. 3	H316
	Skin Sens. 1A	H317
Eye damage	Eye Dam. 1	H318
Inhalation	Acute Tox. 4	H332
Reproductive toxicity	Repr. 2	H361d
Environment		
Aquatic Acute	Aquatic Acute 1	H400
Aquatic Chronic	Aquatic Chronic 1	H410

The most important adverse effects:
Physiochemical effects:
 None known.
Human health effects:
 Causes serious eye damage.
 Suspected of damaging fertility or the unborn child.

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.
 H361d: Suspected of damaging the unborn child.
 H400: Very toxic to aquatic life.
 H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:
 P202: Do not handle until all safety precautions have been read and understood.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release into the environment.
 P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
 P302/352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.
 P305/351/338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308/313: If exposed or concerned: Get medical attention.
 P310: Immediately call a POISON CENTRE.
 P333/313: If skin irritation or rash occurs: Get medical advice.
 P391: Collect spillage.
 P405: Store locked up.
 P501: Dispose of contents/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: Cat. 4
 Classification according to WHO: Cat. III
 Classification according to GPIC: Not available.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture.
Composition:

Chemical Name	CAS	Conc. (M/v %)	Classification EC 1272/2008
Fluazinam	79622-59-6	50	Eye Dam. 1 (H318) Skin Sens. 1A (H317) Acute Tox. 4 (H332) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Polyoxyethylene lauryl ether	9002-92-0	<10	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam.1 (H318)
Sodium dodecyl benzene sulfonate	25155-30-0	<5	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam.1 (H318)
Tributyl phosphate	126-73-8	<1	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Carc. 2 (H351)
Acetic Acid	64-19-7	<1	Flam. Liq. 3 (H226) Skin Corr. 1A (H314)

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. Immediately consult a doctor.

Inhalation: Immediately remove source of contamination or move victim to fresh air. If breathing has stopped, perform artificial respiration and administer oxygen. Avoid mouth-to-mouth resuscitation. Keep person warm and at rest. Treat symptomatically and supportively as and when required. Seek medical advice if the patient feels unwell.

Skin: Remove contaminated clothing and shoes immediately. Gently wipe of excess chemical. Wash skin gently and thoroughly with non-abrasive soap or mild detergent and large amounts of water until no evidence of chemical remains. Seek medical advice if necessary.

Eyes: Flush contamination out of eyes with large amount of flowing cold water or normal saline solution, occasionally lifting upper and lower lids, until no evidence of chemical remains (approximately 15 to 20 minutes).

Seek medical attention immediately.

Ingestion: Have victim rinse mouth thoroughly with water. If the person is alert and respiration is not depressed, give large quantity of water to drink. Never give anything by mouth to an unconscious person. Seek medical attention.

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.

Anticipated delayed effects: Suspected of damaging the unborn child.

Most important symptoms/effects: None known.

Advice to physician: There is no specific antidote if this product is ingested.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Extinguish fires with carbon dioxide, dry powder, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media: High volume water jet, as this will spread the fire. Use a water jet only to cool heated containers.

Specific hazards: The following volatile breakdown products may be emitted during a fire: Chlorinated and fluorinated organic compounds, hydrogen fluoride, hydrogen chloride, nitrogen oxides, sulphur dioxide and carbon oxides.

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. Keep upwind. Avoid inhaling hazardous vapours and fumes from burning materials. Remove containers 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: Avoid contact with eyes and skin. Do not breathe in spray mist or fumes/vapours. 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.

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

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Environmental Precautions: Prevent spilled product from entering sewers, waterways or ground water. This product is classified to be very toxic to aquatic organisms and causes long-term adverse effects in the aquatic environment. 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: Avoid contact with skin and eyes. 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.

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. 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

Components	Exposure limits	Type of exposure limit	Source
Propane-1,2-diol	150 ppm	TWA OEL-RL	Occupational Health and Safety Act, 1993
Acetic acid	10 ppm	TWA OEL-RL	Occupational Health and Safety Act, 1993

Engineering Controls:

It is essential to provide adequate ventilation. The measures appropriate for a 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 air-purifying respirator with cartridges/canisters approved for organic vapours.

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

Eye Protection: The use of chemical resistant safety goggles or face shield is recommended to prevent against eye contact. Contact lenses are not protective eye devices.

Skin and Body Protection: Employee must wear appropriate protective clothing e.g. overalls, 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 substance; the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow to pinkish liquid, suspension concentrate.

Odour: Pungent.

pH: 7 - 9

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

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Flash Point: 181.3°C.
Flammability: Not flammable.
Upper/lower explosion limits: Not explosive.
Vapour Pressure (mm Hg): Not available.
Relative Vapour Density: Not available.
Density/Relative density: 1.28 g/ml.
Solubility: Not available.
n-octanol/water partition coefficient: Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
Viscosity: Not available.

10. STABILITY AND REACTIVITY

Chemical Stability: The product is stable for 2 years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50°C, preferably below 30°C, and not for prolonged periods in direct sunlight.
Reactivity: Stable under recommended conditions.
Possibility of Hazardous Reactions: Will not occur under recommended conditions.
Conditions to Avoid: Extreme heat or exposure to flames.
Incompatible Materials: Refer to label.
Hazardous Decomposition Products: Emits toxic fumes during combustion.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Formulated product.
Calculated according to WHO.
Oral LD₅₀ (24 h) rat > 4980 mg/kg.
Dermal LD₅₀ (24 h) rat > 4900 mg/kg.

Calculated according to GHS.
Oral LD₅₀ (24 h) rat > 5010 mg/kg.
Dermal LD₅₀ (24 h) rat > 4930 mg/kg.
Inhalation LC₅₀ (4 h) rat > 2.72 mg/l.

Skin Irritation: May be harmful in contact with skin.
Eye Damage: Causes serious eye damage.
Skin Sensitization: May cause an allergic skin reaction.
Respiratory Sensitization: Not available.
Reproductive cell mutagenicity: Not available.
Carcinogenicity: Not available.
Reproductive toxicity: Suspected of damaging the unborn child.
Specific target organ toxicity – single exposure: Not available.
Specific target organ toxicity – repeated exposure: Not available.
Aspiration hazard: Not available.
Chronic Effects: Not available.
POTENTIAL ADVERSE EFFECTS:
Inhalation: Shortness of breath.
Eye contact: Redness and irritation.

Skin contact: Mildly itchy rash to painful blistering.
Ingestion: Stomach pain and nausea may occur.

12. ECOLOGICAL INFORMATION

This product is very toxic to aquatic organisms with long lasting effects.
ECOTOXICITY DATA: Active ingredient:
Fluazinam.

Fish:
 LC₅₀ (96 h) Rainbow trout 0.036 mg/l.

Daphnia:
 LC₅₀ (48 h) 0.22 mg/l.

Algae:
 EC₅₀ (96 h) *Selenastrum capricornutum* 0.16 mg/l.

Birds:
 Acute oral LD₅₀ Bobwhite quail 1782 mg/kg.
 Mallard ducks ≥4190 mg/kg.
 Dietary LC₅₀ (5 d) Bobwhite quail >1244 mg/kg.
 Mallard ducks >1230 mg/kg.

Bees:
 (LD₅₀, mg/bee) (contact) >200 mg/bee.
 (oral) >100 mg/bee.

Worms:
 LC₅₀ (28 d) >1000 mg/kg.

Plants: Not determined.
ENVIRONMENTAL EFFECTS:
Animal: In rats, only 30-40 % of administered fluazinam was absorbed. Most (>89 %) of the administered dose was recovered in the faeces, mostly as unchanged parent compound.
Persistence and degradability: In soil, field DT₅₀ 15 d (13°C, pH 6.1, 1.3 % o.m.)
Bio-accumulative Potential: Not determined.
Mobility in soil: Not determined.
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. Where possible, recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.
Container: Emptied containers retain vapour and product residues. Do not re-use the empty container for any other purpose. Triple rinse empty containers by inverting the

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empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to one third of that of the container. Add the rinsing's to the contents of the spray tank before recycling or destroying the container in the prescribed manner. Destroy the container by perforating and flattening and dispose of through an approved waste dumpsite, incineration plant or recycling company. Observe all labelled safeguards until container is destroyed.

14. TRANSPORT INFORMATION

UN Number: 3082
Road Transport ADR/IRD:
 Class: 9
 Packaging group: III
 UN Proper Shipping Name: Environmentally Hazardous substance, Liquid, N.O.S. (Fluazinam 500 g/l)

Maritime Transport IMDG/IMO:
 Class: 9
 Packaging group: III
 UN Proper Shipping Name: Environmentally Hazardous substance, Liquid, N.O.S. (Fluazinam 500 g/l)

Marine Pollutant (Y/N): Yes, considered a marine pollutant.

Air Transport IATA/CAO:
 Class: 9
 Packaging group: III
 UN Proper Shipping Name: Environmentally Hazardous substance, Liquid, N.O.S. (Fluazinam 500 g/l)

Special/Environmental Precautions: None known.
Transport in bulk (according to MARPOL 73/78, Annex II and the IBC code): Not available.

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 200, 250, 400, 500 and 1, 3, 5, 10 and 20 litres plastic containers and labelled according to the South African regulations and guidelines.

Additional H statements (formulants):

- H226:** Flammable liquid and vapour.
- H302:** Harmful if swallowed.
- H314:** Causes severe skin burns and eye damage.
- H315:** Causes skin irritation.
- H351:** Suspected of causing cancer.

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

Compiled: December 2017
Reviewed: August 2020
Revision no.: 3
Next revision: August 2025

For detailed information on revisions, contact the Registration holder.