

VILLA FORTUNE 500 SC

MATERIAL SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: FORTUNE 500 SC
 Fungicide
UN No.: 3082
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: Folpet
Chemical Name: N-(trichloromethylthio) phthalimide;
 N-(trichloromethanesulfonyl)
 phthalimide (IUPAC)
CAS No.: 133-07-3
Chemical family: phthalimide
Chemical formula: C₉H₉N₃O₂
Molecular weight: 296.6
Use: A foliar fungicide for the preventive control of fungal diseases on certain crops.
Formulation: Folpet 500 g/l
 Suspension Concentrate
Hazardous ingredients: Folpet
Symbol: X_n, X_i
Indication of danger: Harmful, Irritant
Risk Phrases: R21/22, R36/37/38, R43, R51

3. HAZARD IDENTIFICATION

Toxicity class: WHO (a.i.) U
 EPA (Formulation): IV
ADI (JMPR): 0.1 mg/kg b.w
Main hazard: Folpet is toxic to aquatic organisms. Slight irritant to eyes and skin. Skin sensitization.
Eye contact: Slight irritant, redness & tears.

Skin contact: Slight irritant. Contact with Folpet may result in light sensitivity.

4. FIRST AID MEASURES AND PRECAUTIONS

Swallowed: Induce vomiting. Seek medical advice if necessary.
Eyes: Irrigate with copious amounts of water for 15 minutes. Eyelids may have to be held open to ensure that the entire surface of the eye and lids are rinsed. Refer for medical advice if irritation persists.
Skin: Remove contaminated clothing while washing with copious quantities of water and soap for 15 minutes. If skin is irritated, refer for medical advice.
Inhalation: Remove person from contaminated atmosphere to fresh air. If shortness of breath or asphyxia has occurred give oxygen (if available) and commence resuscitation if necessary. Seek urgent medical advice.
Advice to the physician: There is no specific antidote, treat symptomatically. If ingested perform gastric lavage and administer activated charcoal.

5. FIRE FIGHTING MEASURES

Fire and explosion hazard:
Flash point: None – water based.
This material is not flammable.
Special hazards: Product is not flammable. In a fire situation, use extinguishers appropriate to burning materials. Contain any run-off and advise emergency services of nature of Hazard.
Extinguishing agents: In small fires: Extinguish fires with carbon dioxide, dry chemical, or foam.
 In large fires: Water spray, fog or regular foam.
Firefighting: Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Dyke fire control water for later disposal. Do not scatter the material. Avoid pollution of waterways. Do not use high volume water jet, due to contamination risk. Contain water used for fire fighting for later disposal. Avoid the accumulation of polluted run-off from the site.
Personal protective equipment: Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

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6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal precautions: Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8. Keep bystanders away from scene of accident. Wear full protective clothing.

Environmental precautions: Toxic to fish. Do not contaminate dams, ponds, waterways or drains with product or used container. 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. Considered as Marine Pollutant.

Occupational spill: Do not touch spilled material; stop leak if you can do it without risk. Keep out unprotected persons and animals.

For spills: Soak up with absorptive material such as damp earth or sand or other suitable non-combustible absorbent material. Place the material into a clean, dry container and cover for subsequent disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Prevent material from spreading by damming in with absorptive material. Do not flush spilled material into drains. Keep spectators away and upwind. Open burning or dumping of this material is prohibited. Do not get water inside containers.

7. HANDLING AND STORAGE REQUIREMENTS

Handling: Do not breathe fumes. Irritating to the eyes and skin. Avoid contact with eyes and skin, and inhalation of spray and vapour. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Operators should change and wash clothing daily. Remove clothing immediately if the fungicide gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. Water used to clean equipment must be disposed of correctly to avoid contamination.

Storage: Keep locked up. Keep out of reach of unauthorised persons, children and animals. Store in its original labelled container in isolated, dry, cool and well-ventilated area. Not to be stored next to foodstuffs and water supplies. Store away from incompatible substances. Local regulations should be complied with.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Occupational exposure limits: No occupational exposure limits have been established for **Folpet**. This does not mean that this substance is not harmful. Safe work practices should always be followed.

It is essential to provide adequate 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.

Engineering Control Measures: Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

Respirator: Wear a respirator fitted with combined dust and vapour cartridge (MSHA-NIOSH).

Clothing: When spraying do not eat, drink or smoke. Wear suitable clothing including PVC or rubber gloves, chemical resistant safety boots and goggles. Wear full coverall or full-length trousers with long sleeved shirt buttoned to the wrist and washable hat. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

Remove contaminated clothing and wash before re-wearing.

Gloves: Wear PVC or rubber gloves.

Eye protection: Wear safety goggles or face shield.

Emergency eye wash: 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: Off-white liquid suspension.

Odour: Characteristic faint odour.

Flammability: Not flammable.

Flash point: N/A.

Solubility: Dispersible.

pH: 4.0 to 9.0.

Density: 1.26 g/cm³.

10. STABILITY AND REACTIVITY

Storage stability: Stable for up to 2 years when stored in a dry, cool covered warehouse in original, well-labelled containers. Store at low temperature conditions, below 50°C, preferably below 30 °C and not for prolonged periods in direct sunlight.

Conditions to avoid: Protect from (sun) light, open flame and sources of heat.

Materials to avoid: Alkali materials, such as lime and Bordeaux mixture will reduce fungicidal activity.

Hazardous decomposition products: CSCl₂, HCl, SO_x, NO_x, CO, CO₂

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11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀ (Technical): 9000 mg/kg in rats.
Acute dermal LD₅₀ (Technical): > 4500 mg/kg in rats.
Acute inhalation (Technical): LC₅₀ (rat): 1.89 mg/l.
Acute skin irritation: Mild skin irritant.
Acute eye irritation: Mild eye irritant.
Dermal sensitisation: Sensitizer. Allergic skin responses and development of dermatitis.
Teratogenicity: None detected.
Mutagenicity: Mutagenicity studies on various animals, bacteria, and plants indicate that **Folpet** does not cause any genetic changes in vivo tests.

12. ECOLOGICAL INFORMATION

Degradability: Major metabolites are phthalimide, phthalic acid and phthalamic acid. DT50 (soil) 4.3 d; DT50 (water) <0.7 h. **Folpet** is strongly adsorbed to soil: adsorption Koc 304–1164 (calc.). **Folpet** is unlikely to leach.

ECOTOXICOLOGY:

Birds: Oral LD₅₀: Mallard duck: > 2000 mg/kg

Fish: Toxic to fish.

Daphnia: LC₅₀ (48 hours): >1.46 mg/l.

Bees: Not toxic.

LD₅₀ (oral) : >236 µg/bee

(Contact) : >200 µg/bee

Worms: Not toxic.

13. DISPOSAL CONSIDERATION

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. Toxic to fish, aquatic invertebrates, and marine organisms. 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.

TRIPLE RINSE empty containers in the following manner: Invert the 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 a minimum of a third of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.

Do not re-use the empty container for any other purpose but destroy it by perforation and flattening and bury in an

approved dump site. Prevent contamination of food, feedstuffs, drinking water and eating utensils. Comply with local legislation applying to waste disposal.

14. TRANSPORT INFORMATION

UN NUMBER: 3082

Road Transport ADR/RID:

Class: 9

Packaging group: III

Shipping name: Environmentally hazardous substance, liquid, N.O.S. (**Folpet** 500 g/l).

Air Transport AIR/IATA:

Class: 9

Packing group: III

Shipping name: Environmentally hazardous substance, liquid, N.O.S. (**Folpet** 500 g/l).

Maritime Transport IMDG/IMO:

Class: 9

Packing group: III

Shipping name: Environmentally hazardous substance, liquid, N.O.S. (**Folpet** 500 g/l).

15. REGULATORY INFORMATION

Symbol: Xn, Xi

Indication of danger: Harmful, Irritant.

Risk phrase(s):

R 21/22 Harmful in contact with skin and if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 43 May cause sensitisation by skin contact.

R 51 Toxic to aquatic organisms.

Safety phrases:

S 1/2 Keep locked up and out of reach children.

S 13 Keep away from food, drink and animal feeding stuffs.

S 23 Do not breathe vapour/spray.

S 24/25 Avoid contact with skin and eyes.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 61 Avoid release to the environment.

16. OTHER INFORMATION

Packaging: Packed in 1, 5, 10, 20 and 25 litres plastic containers 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.

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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

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For detailed information on revisions, contact the Registration holder.