

FARM-AG INTERNATIONAL (Pty) Ltd

P.O. Box 1523, Durban 4000

Head Office : 61 Marshall Dr., Old Mill Industrial Park, Mount Edgecombe **South Africa**

Registration Number: 2005/011761/07

Tel + 27 31 003 3486 • Fax + 27 31 502 5825

SECTION 1 - PRODUCT & COMPANY IDENTIFICATION**Product Name:** FARMAG FOLPET 500 SC**Product Use:** Fungicide**Effective Date:** June 2016**Revision Date:** March 2021**In case of Poisoning:**

Griffon Poison Information Centre : 082 446 8946

Western Cape Poison telephone service: 0861 555 777

SECTION 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**Molecular formula:** C₉H₉N₃O₂**Use:** A foliar fungicide for the preventive control of fungal diseases on certain crops.**Formulation:** FOLPET 500 SC
Suspension Concentrate**Hazardous ingredients of toxicological concern: Folpet****Symbol:** X_n, X_i**Indication of danger:** Harmful, Irritant**Risk Phrases:** R21/22, R36/37/38, R43, R51**SECTION 3 - HAZARD IDENTIFICATION****Toxicity class:** WHO: III**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.**SECTION 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.**SECTION 5 - FIRE-FIGHTING MEASURES****Fire and explosion hazard:****Flash point:** None – water based.

This material is not flammable.

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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.

Fire fighting:

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.

SECTION 6 - ACCIDENTAL RELEASE MEASURES (SPILLAGE)**Personal precautions:**

Avoid contact with skin and eyes. Do not inhale 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:

For small liquid spills, soak up with lime, damp earth or sand, or other non-combustible absorbent material and place into containers for later disposal. For large liquid spills, contain the liquid for later disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Do not flush spilled material into drains. Keep spectators away.

SECTION 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.

SECTION 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:

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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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**Appearance:** Beige white liquid**Odour:** organic slight odour.**Flammability:** Not flammable.**Flash point:** N/A.**pH:** 6.3**Density:** 1, 2 g/cm³.

Suspensibility: 98%

Persistent foam: 20 ml**SECTION 10 - STABILITY AND REACTIVITY****Storage stability:**

Stable at elevated temperatures and at low temperatures. Do not store near crop protection chemicals, feed, fertilizers or seed.

Decomposition properties:

Decomposes in the presence of strong acids and poses a fire and explosion hazard in the presence of strong oxidizers. Stable in aqueous solutions.

Hazardous decomposition products: Thermal decomposition may release toxic oxides of carbon, nitrogen and sulphur.

SECTION 11 - TOXICOLOGICAL INFORMATION**Acute oral LD₅₀ :** >9000 mg/kg in rats.**Acute dermal LD₅₀:** > 4500 mg/kg, albino rabbit.**Acute inhalation (Technical):** LC₅₀ (rat): 1.70 mg/l.**Acute skin irritation:** Mild skin irritant.**Acute eye irritation:** Mild eye irritant.**Dermal sensitisation:** May cause skin sensitisation. 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.

Folpet tech.: ADI: 0.1 mg/kg b.w. [1995, 2004, 2006]**SECTION 12 - ECOLOGICAL INFORMATION****Mobility, Degradability & Accumulation:**

Degradability: Major metabolites are phthalimide, phthalic acid and phthalamide. 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.

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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**SECTION 13 - DISPOSAL CONSIDERATION****Pesticide and container disposal:**

Open dumping or burning of this pesticide is prohibited. 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.

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 third of the volume 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 purposes but destroy it by perforation, 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.

SECTION 14 - TRANSPORT INFORMATION**UN NUMBER:** 3082**Road Transport ADR/IRD:**

Class: 9

Packing group: III

Shipping name: Environmentally hazardous substance, liquid, N.O.S.
(Folpet 500 SC).**Air Transport ICAO/IATA:**

Class: 9

Packing group: III

Shipping name: Environmentally hazardous substance, liquid, N.O.S.
(Folpet 500 SC).**Maritime Transport IMDG/IMO:**

Class: 9

Packing group: III

Shipping name: Environmentally hazardous substance, liquid, N.O.S.
(Folpet 500 SC)**Marine pollutant****SECTION 15 - REGULATORY INFORMATION****Symbol:** X_n, X_i**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:**

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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.

SECTION 16 - OTHER INFORMATION

Packaging:

Packed in 1, 5, 10, 20 and 25 litres plastic containers and labeled 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 or 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.

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