



Material Safety Data Sheet

Flutriafol 250 Fungicide

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product trade name: Flutriafol 250 Fungicide
Other names:
Recommended use: Agricultural fungicide.
Company name & address: 4Farmers Pty. Ltd.
A.C.N 067 443 485
70 McDowell St, Welshpool, Western Australia, 6106.
Ph: (08) 9356 3445 Fax (08) 9356 3447
643 Murray Street, West Perth, Western Australia, 6005
Emergency telephone number: Australian Centre for Occupational Health and Safety
1800 638 556 (24 hours)

2. HAZARDS IDENTIFICATION

Hazard classification: Non-hazardous substance. Non-dangerous goods.
Risk phrases: R22 Harmful if swallowed.
Safety phrases: S20/21 When using do not eat or drink/smoke
S24/25 Avoid contact with skin/eyes
S29/35 Do not empty into drains/Dispose of material and container in a safe way
SUSDP Classification: S6
ADG Classification: Not a dangerous good
UN Number: None allocated

3. COMPOSITION

Substance	CAS Number	% content
Flutriafol	76674-21-0	25% w/v
Sodium methylene bis-naphthalene sulphonate	108389-12-4	4%
Naphthalene formaldehyde condensate	9084-06-4	3%
Propylene glycol	00107-21-1	4%
Yellow GR-179-1	5102-83-0	0.2%
Water		Balance

This is a commercial product. Minor variations in composition may occur, and there may be minor amounts of other non-hazardous material.

In some product batches, Tartrazine 1934-21-0 at 0.8% may replace Yellow GR-179-1.

4. FIRST AID MEASURES

Skin contact: Remove contaminated clothing. Wash thoroughly under running water using a mild soap. Seek medical advice if irritation, reddening and/or other damage occurs.
Eye contact: Flush with running water until product is removed (at least 5 mins). Seek medical advice.
Ingestion: Do NOT induce vomiting. Rinse any residual product from mouth and lips. Give water to drink, and seek medical help immediately.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Product is non-combustible. If the water in the formulation is evaporated by prolonged heating, the residue will burn. Any extinguishing media should be suitable.

Unsuitable extinguishing media: Non known.

Special hazards in fire:

Required special protective equipment for fire-fighters:

Hazchem code:



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6. ACCIDENTAL RELEASE MEASURES

Emergency procedures: Wear protective equipment to prevent skin and eyes being affected.
Evacuate unprotected and unnecessary personnel from area of spill.
If material is leaking from a container, stop the leak only if this can be done safely.
Prevent spillage entering drains or watercourse.

Methods for containment & cleanup: Soil is a suitable absorbent, especially soils high in clay.
Soil can be used to form bunds to contain spillage.
Contaminated soil should be collected for disposal at a suitable landfill.
Personal protective equipment and clothing should be washed with soapy water.

7. HANDLING AND STORAGE

Handling: Keep away from food, drink, and animal feedstuff.
KEEP OUT OF REACH OF CHILDREN.
Wear suitable Personal protective equipment when handling and spraying.

Storage: Store in the original container in a dry, cool, ventilated, LOCKED area.
DO NOT store in prolonged sunlight.
DO NOT store with food, seed, or animal feedstuff.

8. EXPOSURE CONTROLS

National exposure standards: None established.

Biological limit values:

Engineering measures: Ensure adequate ventilation. Supplement natural ventilation if necessary.

Personal protection equipment:

- Eye/face protection: Goggles or glasses to AS 1366, AS/NZS1337
- Hand/skin protection: Overalls, PVC gloves and apron, face shield
- Respiratory protection: Should not be necessary under normal conditions. If spray mist may be encountered, a particulate filter to AS/NZS 1715 should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Viscous yellow liquid suspension.

Odour: Faint.

pH: Not available

Vapour pressure: Flutriafol is very low. VP will be that of water.

Vapour density:

Boiling point/range: Flutriafol is very high. BP will be that of water.

Melting/freezing point: Just below 0 °C.

Solubility: Fully miscible. Flutriafol will be suspended, not dissolved.

Specific gravity - density: Approx 1.1

Flashpoint: None

Explosive limits (air): None

Ignition temperature: Not combustible, unless dried.

Other:

10. STABILITY AND REACTIVITY

Chemical stability: Product should be stable in storage for at least 3 years. Some settling might occur, and containers should be agitated at least once every 12 months to resuspend any sediment.

Conditions to avoid: Do not store outside the temperature range 5 to 25 °C.

Materials to avoid: Strong acids, bases, or oxidising agents.

Hazardous decomposition products: Carbon dioxide and monoxide, Nitrogen oxides, fluorides including hydrofluoric acid may be produced under certain conditions of combustion.

Hazardous reactions: Not likely to polymerise.



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11. TOXICOLOGICAL INFORMATION

Data is not available for the formulated product. For Flutriafol the data is:

Acute toxicity: Oral 1,140 mg/ka, dermal >1,000 mg/ka, (rat).
Chronic toxicity: NOEL 20 mg/kg rats and 5 mg/kg dogs in 90 day feeding trials.
Possible routes of exposure: The most likely exposure is via spray mist. Accidental ingestion of product is also possible.

Range of effects. Excessive exposure may affect human health as follows:

Skin contact: Non irritating, not a sensitiser.
Eye contact: Mild irritant.
Inhalation/ingestion: Should not cause severe effects if treated promptly.

Dose/conc./conditions likely to cause injury: Would require ingestion of several hundred ml of product, without subsequent treatment.

Delayed effects if any: None likely.
Relevant negative data: Not a carcinogen or teratogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic organisms: Toxic.
Flora: Non toxic.
Fauna: Non toxic.
Soil organisms: No effect on microbes. May affect certain soil fungi but there is no data.
Bees: Toxic.
Long term: None expected.
Ozone effects: None recorded.
Persistence/degradation: Not likely to persist in soil.
Mobility: Low.
Bioaccumulative potential: Unknown but probably low.

13. DISPOSAL CONSIDERATIONS

Product: Whenever possible, product should be used for its intended purpose, even if reclaimed from spillage (reclaimed product must be uncontaminated).

Containers: Whenever possible, follow directions given on container.

If not available, triple or pressure rinse plastic or metal containers before disposal. Recycle containers if possible (replace cap and return clean containers to recycler or designated collection point). Treat rinsings as for product above.

If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Sewage: Do not dispose of product or rinsings into sewage systems or septic tanks.

14. TRANSPORT INFORMATION

UN Number: None
UN proper shipping name: Flutriafol 250 Fungicide
ADG Class & subsidiary risks: Not a dangerous good
ADG Packing Group: Not applicable.
Special precautions: None needed.
Hazchem code: Not applicable.

4Farmers does not anticipate that this product will be shipped by air or sea, nor be exported. It is not classified as a dangerous good by the criteria of the International Maritime Dangerous Goods Code, nor by that of the International Air Transport Association Dangerous Goods Regulations.



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15. REGULATORY INFORMATION

This product is an Agricultural Pesticide (Fungicide) registered with APVMA (Agricultural Pesticides and Veterinary Medicines Authority).

All ingredients are listed in the AICS (Australian Inventory of Chemical Substances) database.

It is not classed as hazardous according to the criteria of HOHSC.

It is an S6 poison.

16. OTHER INFORMATION

Prepared Dec 2004.