

Material Safety Data Sheet

Flutriafol 250 g/l SC

1. IDENTIFICATION OF THE PRODUCT AND THE MANUFACTURER

Product Name: Flutriafol 250 g/l SC

Company Identification: SHANGHAI TENGLONG AGROCHEM CO., LTD
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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%
Water		
Balance		

4. FIRST AID MEASURES

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.

Ingestion If swallowed, wash mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Skin Remove contaminated clothing and wash affected areas with soap and water. Seek medical attention if symptoms persist. Launder clothing before reuse.

Eyes In case of eye contact, check for and remove any contact lenses. Immediately irrigate eyes with plenty of running water for at least 15 minutes, keeping eyelids

open. Seek medical attention if symptoms persist.

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.

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: Off-white viscous flowable liquid.

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.

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 oC.

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.

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 Flutriafol:

Aquatic Organisms:

LC50 (rainbow trout) = 61mg/L

LC50 (mirror carp) = 77mg/L

EC50 (Daphnia magna) = 78mg/L

Birds:

LD50 (female mallard) > 5000mg/kg

Bees:

LD50 = 5µg/bee

This product is harmful to aquatic organisms and toxic to bees.

Mobility This product is biodegradable. It will not accumulate in the soil or water or

cause long term problems.

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.

15. REGULATORY INFORMATION

Not available.

16. OTHER INFORMATION

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.