

SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **AgMerch Flutriafol 500 SC Fungicide**

Other Names: Flutriafol. Group 3 Fungicide.
Use: Agricultural fungicide for control of certain fungal diseases in wheat, barley and canola when mixed with fertilizer.
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SECTION 2 HAZARDS IDENTIFICATION

**Classified as Hazardous according to criteria of Safe Work Australia.
Not classified as a Dangerous Good according to the ADG Code*.**

* Not subjected to the ADG code when transported in Australia by Road or Rail in packages 500 kg (L) or less; or in IBC's (refer to SP AU01). However, if transported by Air or Sea, this provision does not apply. Then the product is classed as a Dangerous Good (Class 9 Environmentally Hazardous) by IATA and IMDG respectively. See Section 14 of this SDS for details.

Globally Harmonised System (GHS) classification of the substance/mixture:

Acute Toxicity – Oral: Hazard Category 4.
Sensitization - Skin: Hazard Category 1, 1A, 1B.
Acute Toxicity – Inhalation: Hazard Category 4.

Signal Word: WARNING.

Hazard statements:

H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.

Precautionary Statements:

Prevention:

P261 Avoid breathing mist, vapours or spray.
P264 Wash hands, arms and face thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if feel unwell.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment see Safety Directions on the product label.
P330 Rinse mouth.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P363 Wash contaminated clothing before reuse.

SECTION 2**HAZARDS IDENTIFICATION** (*Continued*)

Disposal:
P501

Dispose of contents/container in accordance with national regulations.

Pictograms:

**SECTION 3****COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients:

CHEMICAL	CAS NUMBER	PROPORTION
Flutriafol	76674-21-0	500 g/L
Other ingredients (including water) determined not to be hazardous		Balance

SECTION 4**FIRST AID MEASURES****FIRST AID**

Ingestion: DO NOT induce vomiting. Rinse any residual product from mouth and lips. Give water to drink and seek medical help. Phone Australia 13 11 26.

Eye contact: Hold eyes open and flood with copious quantities of clean water until chemical is removed. Seek medical advice if irritation persists.

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.

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Advice to Doctor: Treat symptomatically.

SECTION 5**FIRE FIGHTING MEASURES**

Specific Hazard: Product is non-combustible. Generally considered a low risk due to the water content, but once the water has evaporated the product is combustible.

Extinguishing media: Extinguish fire using media suited to burning material. If containers are ruptured contain all runoff. If waterspray is used, contain all runoff.

Hazards from combustion products: Non-combustible, however product is likely to decompose after heating to dryness and continued strong heating and will emit toxic fumes. Will not polymerise.

Precautions for fire-fighters and special protective equipment: Isolate fire area. Evacuate downwind residents. Wear full protective clothing and self contained breathing apparatus. Do not breathe smoke or vapours generated.

SECTION 6**ACCIDENTAL RELEASE MEASURES**

Emergency procedures: Wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length chemical resistant gloves and face shield or goggles. 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. Contain spill and absorb spilled material with absorbent material such as sand, clay or cat litter and dispose of waste as per the requirements of Local or State Waste Management Authorities. 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. Keep out animals and unprotected persons.

SECTION 6 ACCIDENTAL RELEASE MEASURES (Continued)

Material and methods for containment and cleanup procedures: To clean spill area, tools and equipment, wash with a solution of soap, water and acetic acid/vinegar. Follow this with a neutralisation step of washing the area with a bleach or caustic soda ash solution. Finally, wash with a strong soap and water solution. Absorb, as above, any excess liquid and add both solutions to the drums of waste already collected.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling: Will irritate the eyes. May irritate the skin. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. When using the product wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemical resistant gloves and face shield or goggles. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves and face shield or goggles and contaminated clothing.

Conditions for Safe Storage: Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. This product is a Schedule 6 Poison (S6) and must be stored and sold in accordance with the relevant Health Department regulations. Some settling might occur, and containers should be agitated at least once every 12 months to resuspend any sediment.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines:**

No exposure limits have been assigned by Safe Work Australia to the ingredients in this product.

Biological Limit Values:

No biological limit allocated.

Engineering controls:

Use in ventilated areas. Supplement natural ventilation if necessary. Keep containers closed when not in use. No special engineering controls are required.

Personal Protective Equipment (PPE):

General: When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length chemical resistant gloves and face shield or goggles. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and face shield or goggles and contaminated clothing.

Personal Hygiene: Will irritate the eyes. May irritate the nose and throat and skin. Avoid contact with eyes and skin. Clean water should be available for washing in case of eye or skin contamination. Wash skin before eating, drinking or smoking. Shower at the end of the workday.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Viscous yellow liquid suspension.
Odour:	Faint.
Boiling point:	Flutriafol is very high. BP will be that of water.
Freezing point:	Just below 0°C.
Solubility in Water:	Fully miscible. Flutriafol will be suspended, not dissolved.
pH:	Not available.
Specific Gravity:	Approximately 1.1
Flammability:	Non-Combustible liquid, unless dried.
Poisons Schedule:	This product is a Schedule 6 (S6) poison.
Formulation type:	Suspension Concentrate (SC).

SECTION 10**STABILITY AND REACTIVITY**

Chemical Stability: Product should be stable in storage for at least 3 years after manufacture. 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.

Incompatible materials: Strong acids, bases or oxidizing 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.

SECTION 11**TOXICOLOGICAL INFORMATION**

No specific data is available for this product as no toxicity tests have been conducted on this product. Information presented is our best judgement based on similar products and/or individual components. As with all products for which limited data is available, caution must be exercised through the use of protective equipment and handling procedures to minimise exposure.

Potential Health Effects:**ACUTE EFFECTS**

Swallowed: Acute Oral LD₅₀ (rat) = 1140 mg/kg - flutriafol. Accidental swallowing of small amounts of this product is not expected to cause injury – low acute oral toxicity.

Eye: Mild irritant. May cause discomfort if contact is prolonged.

Skin: Acute dermal LD₅₀ (rat) > 1,000 mg/kg (Flutriafol). Non-irritating, not a sensitiser.

Inhaled: Should not cause severe effects if treated promptly. May cause irritation to the respiratory tract.

Acute toxicity:

Exposure to humans most commonly occurs through spray mist or accidental ingestion of product.

Chronic toxicity: Evidence from animal studies indicates that repeated or prolonged exposure to Flutriafol can result in embryo/fetotoxic effects and liver disorders but no reproductive effects were found for Flutriafol at maternal nontoxic doses. There is no evidence of teratogenic, mutagenic or carcinogenic effects.

SECTION 12**ECOLOGICAL INFORMATION**

Environmental Toxicology: Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment. This product is not readily biodegradable. However, likely to degrade slowly in the soil or water and not cause long term problems. The product is toxic to fish, aquatic invertebrates and aquatic plants and harmful to bees. Fish: Rainbow trout 96 hr LC₅₀ = 12.54 mg/L; Invertebrates *Daphnia magna* 48 hr EC₅₀ = 8.08 mg/L; Green algae 72 hr EC₅₀ = 6.30 mg/L. It is not considered as harmful to birds and soil micro- and macro-organisms. LD₅₀ female mallard: > 5000 mg/kg; Bees: LD₅₀ > 5 µg/bee.

Environmental Fate: Flutriafol has moderate mobility in soil. Absorption depends on soil pH and organic matter content. Flutriafol is not readily degradable. Degradation half-lives vary with circumstances, but are usually over 1 year in soil and water.

SECTION 13**DISPOSAL CONSIDERATIONS**

Spills and Disposal: Keep material out of streams and sewers. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities. In rural areas contact ChemClear <http://www.chemclear.com.au> for help with collection of unwanted rural chemicals.

Disposal of empty containers: Triple-rinse containers before disposal. Add rinsings to spray tank. Do not dispose of diluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility.

SECTION 13 DISPOSAL CONSIDERATIONS (Continued)

If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

SECTION 14 TRANSPORT INFORMATION

Road & Rail Transport: This product is exempt from classification as a Dangerous Good in packs less than 500 kg (L) or less; or in IBC's under the Australian Code for the Transport of Dangerous Goods by Road and Rail. For bulk shipments this product is a class 9, UN 3082.

Marine and Air Transport: AgMerch Flutriafol 500 SC Herbicide is classified as a Marine Pollutant according to International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA). If transporting by sea or air the following Dangerous Goods Classification applies:-
UN 3082, Class 9 (Miscellaneous Dangerous Goods), Packing Group III, Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains 50% Flutriafol). Hazchem code •3Z. Hazard Identification Number (HIN) 90. Australian Standards Initial Emergency Response Guide 47.

SECTION 15 REGULATORY INFORMATION

Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is a Schedule 6 poison.

This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. Product Registration No. 91612.

This product is classified as a Hazardous Substance under the criteria of Safe Work Australia.

This product is not classified as a Dangerous Good according to the ADG Code for packs less than 500 kg (L) or less; or in IBC's (SP AU01) (7th Ed).

This product is classified as a Dangerous Good according to International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA).

Requirements concerning special training:

Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

SECTION 16 OTHER INFORMATION

Issue Date: 15 June 2022. Valid for 5 years till 15 June 2027. (First issue).

Key to abbreviations and acronyms used in this MSDS:

ADG Code: Australian Dangerous Goods Code (for the transport of dangerous goods by Road and Rail).

Carcinogen: An agent which is responsible for the formation of a cancer.

Genotoxic: Capable of causing damage to genetic material, such as DNA.

HCIS: Hazardous Chemical Information System.

Lacrimation: The production, secretion, and shedding of tears.

Lavage: A general term referring to cleaning or rinsing.

Mutagen: An agent capable of producing a mutation.

Pneumonitis: A general term that refers to inflammation of lung tissue.

PPE: Personal protective equipment.

Teratogen: An agent capable of causing abnormalities in a developing foetus.

TWA: The Time Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

Safe Work Australia: Australian government statutory body established in 2008 to develop national policy relating to Worker Health & Safety and workers' compensation.

SECTION 16**OTHER INFORMATION** (*Continued*)

References

1. "Hazardous Chemicals Information System". Safe Work Australia HCIS website. (2022).
2. "Classifying Hazardous Substances" Safe Work Australia. August 2018.
3. Globally Harmonized System of Classification and Labelling of Chemicals (GHS). United Nations, 2017 (7th Ed).

This SDS summarises 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 SDS 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.

End SDS.