

Safety Data Sheet

according to WHS Regulations

Date of issue: 12.08.2025

Revision date: 04.08.2025

1 Identification

Product Name: TITAN FLUTRIAFOL 25/CYPERMETHRIN 4 LIQUID SEED DRESSING

Other Means of Identification: Mixture

APVMA Approval Number: 89652

Recommended Use of the Chemical and Restriction on Use: Seed dressing.

Details of Manufacturer or Importer:

Titan Ag Pty Ltd
Princes Street Marina
Suite 15/16 Princes Street
Newport NSW 2106

Phone Number: 02 9999 6655

Emergency telephone number: 02 9999 6655

2 Hazard(s) Identification

Hazardous Nature:

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.



GHS08 Health hazard

Reproductive toxicity – Category 1B

H360D May damage the unborn child.



GHS07

Skin corrosion/irritation – Category 2

H315 Causes skin irritation.

Eye damage/irritation – Category 2A

H319 Causes serious eye irritation.

Specific target organ toxicity (single exposure) – Category 3

H335 May cause respiratory irritation.

Flammable liquids – Category 4

H227 Combustible liquid.

Aquatic Chronic 3

H412 Harmful to aquatic life with long lasting effects.

Signal Word Danger

Hazard Statements

H227 Combustible liquid.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H360D May damage the unborn child.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

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P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use CO ₂ , powder or water spray to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

CAS: 34590-94-8	Dipropylene glycol monomethyl ether Flammable liquids – Category 4, H227	30-60%
CAS: 107-21-1	Ethylene glycol ⚠ Acute toxicity - oral – Category 4, H302; Specific target organ toxicity (single exposure) – Category 3, H335	49.5%
CAS: 872-50-4	N-methyl-2-pyrrolidone ⚠ Reproductive toxicity – Category 1B, H360D; ⚠ Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319; Specific target organ toxicity (single exposure) – Category 3, H335	0-10%
CAS: 76674-21-0	Flutriafol ⚠ Aquatic Chronic 2, H411; ⚠ Acute toxicity - oral – Category 4, H302; Acute toxicity - dermal – Category 4, H312; Aquatic Acute 2, H401	2.5%
CAS: 52315-07-8	Cypermethrin ⚠ Specific target organ toxicity (repeated exposure) – Category 2, H373; ⚠ Aquatic Chronic 1, H410 (M=100000); ⚠ Acute toxicity - oral – Category 4, H302; Skin corrosion/irritation – Category 2, H315; Skin sensitisation – Category 1, H317; Specific target organ toxicity (single exposure) – Category 3, H335	0.4%

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 breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

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Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation, headache and drowsiness.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: Harmful if swallowed. May cause intoxication leading to vomiting, cyanosis, headache, muscle tenderness, convulsions and unconsciousness.

5 Fire Fighting Measures

Suitable Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon and nitrogen and hydrogen fluoride.

This product is not flammable, but may burn or decompose in a fire.

Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots.

Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material.

Collect the spilled material and place into a suitable container for disposal.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Clean equipment with methylated spirits, not water.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep in original container. Keep container closed when not in use.

Protect from extreme heat and direct sunlight. Keep away from strong oxidising agents.

Treated seed should be kept apart from untreated seed. Containers of treated seed must be clearly marked.

8 Exposure Controls and Personal Protection

Exposure Standards:

CAS: 34590-94-8 Dipropylene glycol monomethyl ether

WES	TWA: 308 mg/m ³ , 50 ppm
Sk	

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CAS: 107-21-1 Ethylene glycol	
WES	STEL: 104** mg/m ³ , 40** ppm TWA: 10* 52** mg/m ³ , 20** ppm Sk,*particulate,**vapour
CAS: 872-50-4 N-methyl-2-pyrrolidone	
WES	STEL: 309 mg/m ³ , 75 ppm TWA: 103 mg/m ³ , 25 ppm Sk

Engineering Controls: Ensure adequate ventilation of the working area.**Respiratory Protection:** Respiratory protection is not required under normal use conditions.**Skin Protection:** Skin protection is not required under normal use conditions.**Eye and Face Protection:** Eye protection is not required under normal use conditions.

9 Physical and Chemical Properties

Appearance:

Form:	Liquid
Colour:	Red
Odour:	No information available
Odour Threshold:	No information available
pH-Value:	No information available
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	82.5 °C
Flammability	Combustible
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	No information available
Relative Density:	1.05
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Soluble
Partition Coefficient (n-octanol/water):	No information available
Organic solvents:	
Physical state	Liquid

10 Stability and Reactivity

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.**Chemical Stability:** Stable at ambient temperature and under normal conditions of storage and use.**Conditions to Avoid:** Extreme heat and direct sunlight.**Incompatible Materials:** Strong oxidising agents.**Hazardous Decomposition Products:** Oxides of carbon and nitrogen and hydrogen fluoride.

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11 Toxicological Information

Toxicity:**LD50/LC50 Values:****CAS: 34590-94-8 Dipropylene glycol monomethyl ether**

Oral	LD50	5,135 mg/kg (Rattus norvegicus (rat))
	LD50	>19,000 mg/kg (Oryctolagus cuniculus (rabbit))

CAS: 107-21-1 Ethylene glycol

Oral	LD50	5,840 mg/kg (Rattus norvegicus (rat))
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CAS: 872-50-4 N-methyl-2-pyrrolidone

Oral	LD50	4,150 mg/kg (Rattus norvegicus (rat))
Dermal	LD50	>5,000 mg/kg (Rattus norvegicus (rat))

CAS: 76674-21-0 Flutriafol

Oral	LD50	1,140-1,480 mg/kg (Rattus norvegicus (rat))
Dermal	LD50	>1,000 mg/kg (Rattus norvegicus (rat))
Inhalation	LC50/4 h	>5.2 mg/l (Rattus norvegicus (rat))

CAS: 52315-07-8 Cypermethrin

Oral	LD50	500 mg/kg (ATE)
		287 mg/kg (Rattus norvegicus (rat))
		1,600 mg/kg (Rattus norvegicus (rat))
Dermal	LD50	>2,000 mg/kg (Oryctolagus cuniculus (rabbit))
		>2,000 mg/kg (Rattus norvegicus (rat))
		>2,000 mg/kg (Rattus norvegicus (rat))
Inhalation	LC50/4 h	3.3 mg/l (ATE)
	LC50	3.56 mg/l (Rattus norvegicus (rat))

Acute Health Effects**Inhalation:** May cause respiratory irritation, headache and drowsiness.**Skin:** Causes skin irritation.**Eye:** Causes serious eye irritation.**Ingestion:**

Harmful if swallowed. May cause intoxication leading to vomiting, cyanosis, headache, muscle tenderness, convulsions and unconsciousness.

Skin Corrosion / Irritation: Causes skin irritation.**Serious Eye Damage / Irritation:** Causes serious eye irritation.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** Based on classification principles, the classification criteria are not met.**Reproductive Toxicity:** May damage fertility or the unborn child.**Specific Target Organ Toxicity (STOT) - Single Exposure:** May cause respiratory irritation.**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** No data associated with long term health effects.**Existing Conditions Aggravated by Exposure:** No data available.

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Additional toxicological information:

The Australian Acceptable Daily Intake (ADI) for Flutriafol for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 1 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species.

(Ref: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2024)

12 Ecological Information

Ecotoxicity:**CAS: 76674-21-0 Flutriafol**

Oral LD50	>5,000 mg/kg (Anas platyrhynchos (mallard duck))
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Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

CAS: 107-21-1 Ethylene glycol

EC50/48 h	49,000 mg/l (Daphnia magna (water flea))
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EC50/96 h	6,500-13,000 mg/l (Chlorophyta (green algae))
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LC50/96 h	22,810 mg/l (Oncorhynchus mykiss (rainbow trout))
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CAS: 872-50-4 N-methyl-2-pyrrolidone

EC50/48 h	4,897 mg/l (Daphnia magna (water flea))
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EC50/72 h	672 mg/l (Desmodesmus subspicatus (green algae))
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LC50/96 h	>500 mg/l (Oncorhynchus mykiss (rainbow trout))
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CAS: 76674-21-0 Flutriafol

EC50/48 h	67 mg/l (Daphnia magna (water flea))
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LC50/96 h	33 mg/l (Lepomis macrochirus (bluegill))
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LC50	77 mg/l (Cyprinus carpio (mirror carp))
	61 mg/l (Oncorhynchus mykiss (rainbow trout))

CAS: 52315-07-8 Cypermethrin

LC50/96 h	0.0018 mg/l (Lepomis macrochirus (bluegill))
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	0.0002 mg/l (Daphnia magna (water flea))
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	0.0082 mg/l (Oncorhynchus mykiss (rainbow trout))
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Persistence and Degradability: No data available on finished product.

Bioaccumulative Potential: Bioaccumulation is not expected to occur.

Mobility in Soil: Low mobility in soil.

Other adverse effects: No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number	Not regulated
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ADG, IMDG, IATA	-
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Proper Shipping Name	Not regulated
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ADG, IMDG, IATA	-
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Dangerous Goods Class	Not regulated
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ADG Class: -

Packing Group: Not regulated

ADG, IMDG, IATA -

15 Regulatory Information

Australian Inventory of Industrial Chemicals:

CAS: 34590-94-8	Dipropylene glycol monomethyl ether
CAS: 107-21-1	Ethylene glycol
CAS: 872-50-4	N-methyl-2-pyrrolidone
CAS: 52315-07-8	Cypermethrin

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 6

Australian Pesticides and Veterinary Medicines Authority:

This product is registered with the Australian Pesticides and Veterinary Medicines Authority. APVMA approval number 89652.

16 Other Information

Date of Preparation or Last Revision: 04.08.2025**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au

Abbreviations and acronyms:

ADG: Australian Dangerous Goods
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 IARC: International Agency for Research on Cancer
 STEL: Short Term Exposure Limit
 TWA: Time Weighted Average
 NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)
 Flammable liquids – Category 4: Flammable liquids – Category 4
 Acute toxicity - oral – Category 4: Acute toxicity – Category 4
 Skin corrosion/irritation – Category 2: Skin corrosion/irritation – Category 2
 Eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A
 Skin sensitisation – Category 1: Skin sensitisation, Hazard Category 1
 Reproductive toxicity – Category 1B: Reproductive toxicity – Category 1B
 Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3
 Specific target organ toxicity (repeated exposure) – Category 2: Specific target organ toxicity (repeated exposure) – Category 2
 Aquatic Acute 2: Hazardous to the aquatic environment, short-term (Acute). Category 2
 Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment, long-term (Chronic). Category 2
 Aquatic Chronic 3: Hazardous to the aquatic environment, long-term (Chronic). Category 3

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - June 2023”.

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