

Safety Data Sheet

according to WHS Regulations

Print date: 14.12.2023

Revision date: 14.12.2023

1 Identification

Product Name: Titan Stoli SE Fungicide**Other Means of Identification:** Mixture**Recommended Use of the Chemical and Restriction on Use:** Agricultural fungicide**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:

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

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition), IATA and IMDG/IMSBC.

Not subject to the ADG Code when transported in Australia by Road or Rail in packagings that do not incorporate a receptacle exceeding 500 kg(L); or IBCs (refer to SP AU01). However if transported by Air or Sea, this provision does not apply.



Corrosion

Eye Damage 1

H318 Causes serious eye damage.



Environment

Aquatic Chronic 1

H410 Very toxic to aquatic life with long lasting effects.



Acute Toxicity (Oral) 4

H302 Harmful if swallowed.

Acute Toxicity (Inhalation) 4

H332 Harmful if inhaled.

Signal Word Danger**Hazard Statements**

H302 Harmful if swallowed.

H332 Harmful if inhaled.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

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

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear eye protection / face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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| | |
|----------------|--|
| P330 | Rinse mouth. |
| 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. |
| P310 | Immediately call a POISON CENTER/doctor. |
| P391 | Collect spillage. |
| 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: 70630-17-0 | Metalaxyl-M ☠ Eye Damage 1, H318; ☠ Acute Toxicity (Oral) 4, H302; Acute Toxicity (Inhalation) 4, H332 | 10-<30% |
| CAS: 131860-33-8 | Azoxystrobin ☠ Acute Toxicity (Inhalation) 3, H331; ☠ Aquatic Chronic 1, H410 (M=10) | 10-<30% |
| CAS: 132778-08-6 | D-Glucopyranose, oligomeric, C9-11-alkyl glycosides ☠ Eye Damage 1, H318; ☠ Skin Corrosion/Irritation 2, H315 | 1-<3% |
| CAS: 67-56-1 | Methanol ☠ Flammable Liquids 2, H225; ☠ Acute Toxicity (Oral) 3, H301; Acute Toxicity (Dermal) 3, H311; Acute Toxicity (Inhalation) 3, H331; ☠ STOT SE 1, H370 | <1% |

Non Hazardous Components:

| | | |
|--------------|------------------|------|
| CAS: 57-55-6 | Propylene glycol | <10% |
|--------------|------------------|------|

4 First Aid Measures

Inhalation: If inhaled, remove to fresh air. 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 irritation occurs.

Eye Contact:

In case of eye contact, rinse with water for several minutes, including under eyelids. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek immediate medical attention.

Ingestion:

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

Symptoms Caused by Exposure:

Inhalation: Harmful if inhaled. May cause respiratory irritation.

Skin Contact: May cause skin irritation.

Eye Contact: Causes serious eye damage.

Ingestion: Harmful if swallowed. May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

5 Fire Fighting Measures

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

Specific Hazards Arising from the Chemical:

Hazardous combustion products include dense black smoke and other unidentified potentially toxic gases.

Product is not flammable.

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

Prevent run-off from fire fighting entering drains or water courses.

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HAZCHEM Code: •3Z

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 or mists. Ensure adequate ventilation.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses. Inform respective authorities in case of seepage into water course or sewage system.

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. Decontaminate spill area with detergent and water.

7 Handling and Storage

Precautions for Safe Handling:

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

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 container tightly closed when not in use.

8 Exposure Controls and Personal Protection

Exposure Standards:**CAS: 57-55-6 Propylene glycol**

| | |
|-----|---|
| WES | TWA: 474* 10** mg/m ³ , 150* ppm *vapour&particulates;**particulates only |
|-----|---|

CAS: 67-56-1 Methanol

| | |
|-----|---|
| WES | STEL: 328 mg/m ³ , 250 ppm TWA: 262 mg/m ³ , 200 ppm Sk |
|-----|---|

Engineering Controls:

Ensure adequate ventilation of the working area, keeping airborne concentrations below occupational exposure standards.

Respiratory Protection:

Use an approved half face mask under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Protective gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of

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the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Safety glasses with top and side shields or goggles. See Australian/New Zealand Standards AS/NZS 1336 and 1337 for more information.

9 Physical and Chemical Properties

Appearance:

| | |
|---|--------------------------|
| Form: | Liquid |
| Colour: | Yellow |
| Odour: | No information available |
| Odour Threshold: | No information available |
| pH-Value: | 5-9 (1 % w/v) |
| Melting point/freezing point: | No information available |
| Initial Boiling Point/Boiling Range: | No information available |
| Flash Point: | No information available |
| Flammability (solid, gas): | Not applicable |
| Auto-ignition Temperature: | 480 °C |
| Decomposition Temperature: | No information available |
| Explosion Limits: | |
| Lower: | No information available |
| Upper: | No information available |
| Vapour Pressure: | No information available |
| Density at 20 °C: | 1.1161 g/cm ³ |
| Vapour Density: | No information available |
| Evaporation Rate: | No information available |
| Solubility in Water: | No information available |
| Partition Coefficient (n-octanol/water): | No information available |
| Viscosity: | No information available |

10 Stability and Reactivity

Possibility of Hazardous Reactions: No dangerous reactions known under conditions of normal use.**Chemical Stability:** Stable at ambient temperature and under normal conditions of storage and use.**Conditions to Avoid:** No further relevant information available.**Incompatible Materials:** No further relevant information available.**Hazardous Decomposition Products:** Dense black smoke and unidentified potentially toxic gases.

11 Toxicological Information

Toxicity:**LD50/LC50 Values:**

| | | |
|------------|----------|---|
| Oral | LD50 | 550-1,750 mg/kg (Rattus norvegicus (rat)) |
| Dermal | LD50 | >5,000 mg/kg (Rattus norvegicus (rat)) |
| Inhalation | LC50/4 h | >2.8 mg/l (Rattus norvegicus (rat)) |

CAS: 70630-17-0 Metalaxyl-M

| | | |
|------------|----------|--|
| Oral | LD50 | 375 mg/kg (Rattus norvegicus (rat)) |
| Dermal | LD50 | >2,000 mg/kg (Rattus norvegicus (rat)) |
| Inhalation | LC50/4 h | >2.29 mg/l (Rattus norvegicus (rat)) |

CAS: 131860-33-8 Azoxystrobin

| | | |
|------|------|--|
| Oral | LD50 | >5,000 mg/kg (Rattus norvegicus (rat)) |
|------|------|--|

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| | | |
|------------------------------|----------|--|
| Dermal | LD50 | >2,000 mg/kg (Rattus norvegicus (rat)) |
| Inhalation | LC50/4 h | 0.7 mg/l (Rattus norvegicus (rat)) |
| CAS: 67-56-1 Methanol | | |
| Inhalation | LC50/4 h | 83.8 mg/l (Rattus norvegicus (rat)) |

Acute Health Effects**Inhalation:** Harmful if inhaled. May cause respiratory irritation.**Skin:** May cause skin irritation.**Eye:** Causes serious eye damage.**Ingestion:** Harmful if swallowed. May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Causes serious eye damage.**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.

This product does NOT contain any IARC listed chemicals.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

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

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.**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for Azoxystrobin for a human is 0.1 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 10 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species.

The Australian Acceptable Daily Intake (ADI) for Metalaxyl for a human is 0.03 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 3 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', 2023).

12 Ecological Information

Ecotoxicity:**Aquatic toxicity:**

Very toxic to aquatic life with long lasting effects.

| | |
|------------|---|
| ErC50/72 h | 1.3 mg/l (Algae) |
| LC50/96 h | 0.85 mg/l (Oncorhynchus mykiss (rainbow trout)) |
| LC50/48 h | 0.19 mg/l (Daphnia magna (water flea)) |

CAS: 70630-17-0 Metalaxyl-M

| | |
|-----------|---|
| EC50/48 h | >100 mg/l (Daphnia magna (water flea)) |
| LC50/96 h | >100 mg/l (Oncorhynchus mykiss (rainbow trout)) |

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| | |
|--------------------------------------|---|
| CAS: 131860-33-8 Azoxystrobin | |
| EC50/48 h | 0.28 mg/l (Daphnia magna (water flea)) |
| EC50/96 h | 2 mg/l (Pseudokirchneriella subcapitata (algae)) |
| LC50/96 h | 0.47 mg/l (Oncorhynchus mykiss (rainbow trout)) |
| CAS: 67-56-1 Methanol | |
| LC50/96 h | 13,500-17,600 ppm (Lepomis macrochirus (bluegill)) |
| | 19,500-20,700 ppm (Oncorhynchus mykiss (rainbow trout)) |
| LC50/96 h | 28,200 mg/l (Pimephales promelas (fathead minnow)) |

Persistence and Degradability: No data available on finished product.**Bioaccumulative Potential:** No data available on finished product.**Mobility in Soil:** No data available on finished product.**Other adverse effects:** No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers:

Must not be disposed together with household garbage. Do not allow product to reach sewage system. 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 | |
| ADG, IMDG, IATA | UN3082 |
| Proper Shipping Name | |
| ADG, IMDG, IATA | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Azoxystrobin), MARINE POLLUTANT |
| Dangerous Goods Class | |
| ADG Class: | 9 |
| Packing Group: | |
| ADG, IMDG, IATA | III |
| Marine pollutant: | Yes |
| EMS Number: | F-A,S-F |
| Hazchem Code: | •3Z |
| Special Provisions: | 274, 331, 335, 375, AU01 |
| Transport/Additional information: | Not subject to the ADG Code when transported by road or rail in packagings that do not incorporate a receptacle exceeding 500 kg(L) or IBCs. (refer to SP AU01) |
| Excepted quantities (EQ): | E1 |
| Limited Quantities: | 5 L |
| Packagings & IBCs - Packing Instruction: | P001, IBC03, LP01 |
| Packagings & IBCs - Special Packing Provisions: | PP1 |
| Portable Tanks & Bulk Containers - Instructions: | T4 |

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Portable Tanks & Bulk Containers - Special Provisions:

TP1, TP29

15 Regulatory Information

Australian Inventory of Industrial Chemicals:

All components are on the inventory, or in compliance with the inventory.

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

Poisons Schedule: 5

16 Other Information

Date of Preparation or Last Revision: 14.12.2023

Prepared by: MSDS.COM.AU Pty Ltd

www.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 2: Flammable liquids – Category 2

Acute Toxicity (Oral) 4: Acute toxicity – Category 4

Acute Toxicity (Inhalation) 3: Acute toxicity – Category 3

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

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 - July 2020”.

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Titan Ag Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.