

1 Identification

Product Name: AZOXYSTROBIN EXTRA FUNGICIDE BY TITAN

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
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.

Not subject to the ADG Code when transported in Australia by Road or Rail in packages 500kg(L) or less; or IBCs (refer to SP AU01). However if transported by Air or Sea, this provision does not apply. Then the product is classed as Dangerous (Class 9 Environmentally Hazardous) by IATA and IMDG/IMSBC respectively. See details below and in Section 14 of this SDS.



health hazard

Toxic To Reproduction 2

H361 Suspected of damaging fertility or the unborn child.



environment

Aquatic Acute 1

H400 Very toxic to aquatic life.

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.

Skin Corrosion/Irritation 2

H315 Causes skin irritation.

Serious Eye Damage/Irritation 2A

H319 Causes serious eye irritation.

Signal Word Warning

Hazard Statements

H302 Harmful if swallowed.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H410 Very toxic 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.

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| | |
|----------------|--|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P264 | Wash hands 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 protective gloves/protective clothing/eye protection/face protection. |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. |
| P330 | Rinse mouth. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep 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. |
| 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. |
| P391 | Collect spillage. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national regulations. |

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

| CAS: 131860-33-8 | Azoxystrobin | 20% |
|------------------|--|--------|
| | ☠ Acute Toxicity (Inhalation) 3, H331; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | |
| CAS: 94361-06-5 | Cyproconazole (ISO) | 8% |
| | ☠ Toxic To Reproduction 2, H361; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☠ Acute Toxicity (Oral) 4, H302 | |
| CAS: 68439-49-6 | Alcohols, C16-18, ethoxylated | 20-30% |
| | ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☠ Acute Toxicity (Oral) 4, H302; Skin Corrosion/Irritation 2, H315; Serious Eye Damage/Irritation 2A, H319 | |

4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep patient warm and at rest. Seek immediate medical attention.

Skin Contact:

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

Eye Contact:

In case of eye contact, hold eyelids apart and flush the eye continuously with large amounts of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention.

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Ingestion:

If swallowed, do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Medical Attention and Special Treatment: There is no specific antidote available. Treat symptomatically.

5 Fire Fighting Measures

Suitable Extinguishing Media:

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use water jet.

Specific Hazards Arising from the Chemical:

Containers close to fire should be removed if safe to do so. Use water to keep fire exposed containers cool. Product contains combustible organic components, fire will produce dense black smoke. Toxic and irritant vapours may be released upon combustion or thermal decomposition.

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 vapour respirator, face shield or goggles, PVC gloves, protective clothing (overall), washable hat and rubber boots. Evacuate all non-essential personnel from affected area. Do not breathe vapour. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

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. Dam 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 the spill area with water and detergent and rinse with the smallest volume of water practicable. Use only non-sparking tools.

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.

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 the original container. Protect from prolonged direct sunlight.

8 Exposure Controls and Personal Protection

Exposure Standards:

CAS: 131860-33-8 Azoxystrobin

| | |
|-------------|--------------------------|
| Recommended | TWA: 2 mg/m ³ |
|-------------|--------------------------|

CAS: 94361-06-5 Cyproconazole (ISO)

| | |
|-------------|----------------------------|
| Recommended | TWA: 0.5 mg/m ³ |
|-------------|----------------------------|

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Engineering Controls:

Natural ventilation should be adequate under normal use conditions. Product is used outdoors.

Respiratory Protection:

Use a Safe Work Australia approved vapour respirator if high airborne concentrations of the material are present. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Elbow-length PVC gloves, cotton overall buttoned to the neck and wrist, safety boots and a washable hat. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information.

Eye and Face Protection:

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

9 Physical and Chemical Properties

Appearance:

| | |
|---|----------------------------|
| Form: | Suspension |
| Colour: | Light yellow to yellow |
| Odour: | Sweetish |
| Odour Threshold: | No information available |
| pH-Value: | 5-9 (1% w/v) |
| Melting point/freezing point: | No information available |
| Initial Boiling Point/Boiling Range: | 100 °C |
| Flash Point: | > 100 °C (closed cup) |
| Flammability: | Combustible Liquid Class 1 |
| Auto-ignition Temperature: | 455±5 °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: | 1.1 g/cm ³ |
| Relative Density: | No information available |
| Vapour Density: | No information available |
| Evaporation Rate: | No information available |
| Solubility in Water: | Miscible |
| Partition Coefficient (n-octanol/water): | No information available |
| Viscosity at 20 °C: | 203-855 mPa.s |

10 Stability and Reactivity

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.**Chemical Stability:** Stable under normal conditions.**Conditions to Avoid:** No information available**Incompatible Materials:** No information available**Hazardous Decomposition Products:**

Toxic and irritant vapours upon combustion or thermal decomposition.

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11 Toxicological Information

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:**

| | | |
|------------|-----------------------|---|
| Oral | LD ₅₀ | >2000 mg/kg (rat) (male rat) >500 - <2000 mg/kg (rat) (female rat) |
| Dermal | LD ₅₀ | >5000 mg/kg (rat) |
| Inhalation | LC ₅₀ /4 h | >2.58 mg/l (rat) |

Acute Health Effects**Inhalation:** Harmful if inhaled.**Skin:** Low toxicity, slight irritant.**Eye:** Slight irritant.**Ingestion:** Harmful.**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.**Respiratory or Skin Sensitisation:** No sensitising effects known.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**Reproductive Toxicity:** Suspected of damaging fertility or the unborn child.**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:**

Azoxystrobin technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence was obtained of mutagenic, carcinogenic, teratogenic neurotoxic or reproductive effects. Cyproconazole has been extensively tested on laboratory mammals and in test-tube systems. No evidence was obtained of mutagenic, carcinogenic or neurotoxic effects. Maternal and foetal toxicity were observed at high dose levels in studies on rats. No adverse effects in humans are expected at levels below the occupational exposure limit and when the product is handled and used according to the label.

Existing Conditions Aggravated by Exposure: No information 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 cyproconazole 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.

(Ref: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2019).

12 Ecological Information

Ecotoxicity: Very toxic to aquatic life with long lasting effects.

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| | |
|--------------------------|--------------------------|
| Aquatic toxicity: | |
| EC ₅₀ /48 h | 1.2 mg/l (daphnia) |
| LC ₅₀ /96 h | 1.8 mg/l (rainbow trout) |

Persistence and Degradability:

Azoxystrobin is stable in water. Azoxystrobin is not persistent in soil.
Cyproconazole is not persistent in water or soil.

Bioaccumulative Potential:

Azoxystrobin has medium bioaccumulation potential.
Cyproconazole does not bioaccumulate.

Mobility in Soil:

Azoxystrobin has low to very high mobility in soil.
Cyproconazole has low to medium mobility in soil.

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 | |
| ADG | Not subject to the ADG Code when transported in Australia by Road or Rail in packages 500kg(L) or less; or IBCs (refer to SP AU01). |
| IMDG, IATA | UN3082 |
| Proper Shipping Name | |
| ADG | Not regulated |
| IMDG, IATA | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Azoxystrobin, cyproconazole (ISO), alcohols, C16-18, ethoxylated) |
| Dangerous Goods Class | |
| ADG Class: | Not regulated |
| IMDG Class: | 9 Miscellaneous dangerous substances and articles. |
| Packing Group: | |
| ADG | Not regulated |
| IMDG, IATA | III |
| Hazchem Code: | •3Z |
| Special Provisions: | 274, 331, 335, 375, AU01 |
| Limited Quantities: | 5L |
| Packagings & IBCs - Packing Instruction: | P001, IBC03, LP01 |
| Packagings & IBCs - Special Packing Provisions: | PP1 |
| Portable Tanks & Bulk Containers - Instructions: | T4 |
| Portable Tanks & Bulk Containers - Special Provisions: | TP1, TP29 |

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15 Regulatory Information

Australian Inventory of Chemical Substances:

| | |
|------------------|-------------------------------|
| CAS: 131860-33-8 | Azoxystrobin |
| CAS: 94361-06-5 | Cyproconazole (ISO) |
| CAS: 68439-49-6 | Alcohols, C16-18, ethoxylated |

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

Poisons Schedule: 5

16 Other Information

Date of Preparation or Last Revision: 03.04.2019**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 percentLD₅₀: 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)

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

Serious Eye Damage/Irritation 2A: Serious eye damage/eye irritation – Category 2A

Toxic To Reproduction 2: Reproductive toxicity – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

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

Data compared to the previous version altered: Section 14
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 - February 2016"

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