

Section 1 - Identification of The Material and Supplier

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Chemical nature: Azoxytrobin is a pyrimidine derivative.

Trade Name: **Turf Culture Azoxy 250 SC NZ Fungicide**

EPA Approval No: HSR100712

Product Use: Fungicide for the control of various diseases of turf as per the Directions for Use.

Creation Date: **January 2011**

This version issued: **November, 2017** and is valid for 5 years from this date.

New Zealand Supplier: PGG Wrightson Turf Ltd
 31 Allright Place, Mt Wellington, Auckland, New Zealand
 Ph: +64 09 570 2570, Fax: +64 09 570 4064
www.pggwrightsonturf.co.nz

Emergency Telephone No. 0800 764 766 (from anywhere in New Zealand).

Section 2 - Hazards Identification

Statement of Hazardous Nature.

This substance is classified as hazardous according to the HSNO (Minimum Degrees of Hazard) Regulations 2001.

This substance is classified as a dangerous good for Land Transport in New Zealand according to NZS5433: 2012

EPA Approval Code: HSR100712
HSNO Classification: 6.1D (inhalation), 6.3B, 6.9B, 8.3A, 9.1A
Signal Word: **Danger**
Label Pictograms



Hazard Code	Hazard Statement	GHS Category
H332	Harmful if inhaled.	Acute Inhalation Toxicity Category 4
H316	Causes mild skin irritation.	Skin irritation Category 3
H373	May cause damage to organs through prolonged or repeated exposure.	STOT Category 2
H318	Causes serious eye damage.	Eye irritation Category 1
H410	Very toxic to aquatic life with long lasting effects.	Acute Aquatic Ecotoxicity Category 1

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.

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P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
S77A Do not apply onto or into water.

Response code
Response Statement

P101 If medical advice is needed, have product container or label at hand.
P310 Immediately call a POISON CENTER or doctor/physician.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P331 Do NOT induce vomiting.
P391 Collect spillage.
P304 + P340 IF INHALED: Remove 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.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.

Storage Code
Storage Statement

P410: Protect from sunlight.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.

Disposal
Disposal Statement

Container Disposal Ensure the container is empty. Triple rinse empty container and add reinstatement to spray tank. Recycle punctured container without caps through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.
Product Disposal Disposal of this product only by using according to this label, or at an approved landfill or other approved facility.

Section 3 - Composition/Information on Ingredients

Ingredients (mg/m ³)	CAS No.	Conc. %	TWA (mg/m ³)	STEL
Azoxystrobin	131860-33-8	250 g/L	not set	not set
Propylene glycol	57-55-6	>1 to <10	10 (particulates) 470 (vapour and Particulates)	
Other non-hazardous ingredients	secret	to 100	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8-hour working day for a 5-day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - First Aid Measures

Emergency Overview

Physical Description & Colour: Milky light orange coloured suspension.

Odour: No data.

Major Health Hazards: irritating to eyes and skin.

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General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 0800 764 766 in New Zealand and is available at all times. Have this SDS with you when you call.

Inhalation: Harmful if inhaled. Remove to fresh air and keep at rest in a position comfortable for breathing. Contact a Poisons Information Centre or a doctor if you feel unwell.

Skin Contact: Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for 10-20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard. If irritation persists, repeat flushing and seek medical attention.

Eye Contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special care if exposed person is wearing contact lenses.

Ingestion: If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

Section 5 - Fire Fighting Measures

HAZCHEM CODE: 3Z Contain Spillage

Fire and Explosion Hazards: There is little risk of an explosion from this product if commercial quantities are involved in a fire.

This product is likely to decompose only after heating to dryness, followed by further strong heating.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media: Try to contain spills, minimise spillage entering drains or watercourses.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade. There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire.

Recommended personal protective equipment is full fire kit and breathing apparatus.

Flash point: Does not burn.

Upper Flammability Limit: Does not burn.

Lower Flammability Limit: Does not burn.

Autoignition temperature: Not applicable - does not burn.

Flammability Class: Does not burn.

Section 6 - Accidental Release Measures

Accidental release: In the event of a major spill, prevent spillage from entering drains or watercourses. Wear full protective clothing including eye/face protection. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8).

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Because of the environmentally hazardous nature of this product, special care should be taken to restrict release to waterways or drains. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area-preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

Approved Handler: The substance must be under the personal control of an approved handler when the substance is: (a) applied in a wide dispersive manner; or (b) used by a commercial contractor.

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Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Check packaging - there may be further storage instructions on the label.

Section 8 - Exposure Controls and Personal Protection

The following Australian/New Zealand Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits	TWA (mg/m ³)	STEL (mg/m ³)
Propylene glycol [57-55-6]	10 (particulates) 470 (vapour and Particulates)	

The ADI for Azoxystrobin is set at 0.1mg/kg/day. The corresponding NOEL is set at 10mg/kg/day. ADI means Acceptable Daily Intake; NOEL means No-observable-effect-level. Data from Australian ADI List, June 2013.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: This product should only be used outdoors or in a well-ventilated area. If natural ventilation is inadequate, use of an extractor fan is recommended.

Eye Protection: Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

Skin Protection: Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types.

Protective Material Types: We suggest that protective clothing be made from the following materials: rubber, PVC.

Respirator: Usually, no respirator is necessary when using this diluted product in well ventilated areas. However, if you have any doubts consult the Australian/New Zealand Standards mentioned above.

Eyebaths or eyewash stations and safety deluge showers should be provided near to where this product is being used.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Milky light orange coloured suspension.
Odour:	No data.
Boiling Point:	Approximately 100°C at 100kPa.
Freezing/Melting Point:	Below 0°C.
Volatiles:	Water component.
Vapour Pressure:	2.37 kPa at 20°C (water vapour pressure).
Vapour Density:	As for water.
Specific Gravity:	1.083
Water Solubility:	Completely soluble in water.
pH:	No data.
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	No data.
Coeff Oil/water Distribution:	No data
Autoignition temp:	Not applicable - does not burn.

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Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities: strong oxidising agents.

Fire Decomposition: This product is likely to decompose only after heating to dryness, followed by further strong heating. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds. Most will have a foul odour. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

Target Organs: Azoxystrobin, Liver
Propylene Glycol), Kidney, liver, CNS

Potential Health Effects

Inhalation:

Short Term Exposure: Azoxystrobin is harmful if inhaled.

Long Term Exposure: No data for health effects associated with long-term inhalation.

Skin Contact:

Short Term Exposure: This product is a skin irritant. Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Long Term Exposure: No data for health effects associated with long-term skin exposure.

Eye Contact:

Short Term Exposure: This product is eye corrosive. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage.

Long Term Exposure: can cause permanent eye damage.

Ingestion:

Short Term Exposure: Significant oral exposure is considered to be unlikely. However, this product is an oral irritant. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Long Term Exposure: Azoxystrobin : A 90-day feeding study (rat), liver toxicity was observed at 2000 ppm. This was manifest as gross distension of the bile duct, increased numbers of lining cells and inflammation of the duct. There is no evidence of neurotoxicity in any of the studies conducted with azoxystrobin.

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

Classification of Hazardous Ingredients

Azoxystrobin technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence was obtained of mutagenic, neurotoxic, carcinogenic, teratogenic or reproductive effects.

Propylene Glycol is reported to cause central nervous system depression (anesthesia, dizziness, confusion), headache and nausea. Chronic dietary exposure caused kidney and liver injury in experimental animals.

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Section 12 - Ecological Information

This product is very toxic to aquatic organisms. Do not allow to enter waterways.

This product rapidly biodegrades in soils. This product is unlikely to accumulate in body tissues. This product is unlikely to be mobile in soils.

For Azoxystrobin:

Fish: LC₅₀ rainbow trout 96hr: 2.4mg/L

Algae: EbC₅₀ 0.23 (biomass) & 0.26 (growth rate)mg/L

Bees: LD₅₀ 200µg/bee

Daphnia: EbC₅₀ 48hr 0.47mg/L

Worms: LD₅₀ (*Eisenia foetida*) 881mg/kg; NOEC = 10 mg/kg

Section 13 - Disposal Considerations

Product Disposal Dispose of this product only by using according to this label, or at an approved landfill or other approved facility. Do not allow to enter waterways.

Container Disposal Ensure the container is empty. Triple rinse empty container and add rinsate to spray tank. Recycle punctured container without caps through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

Section 14 - Transport Information

New Zealand

Classified as a Dangerous Good for transport in accordance with the Land Transport Rule Dangerous Goods 2005 (as amended) and NZS 5433:2012

Transport Pictogram



Road and Rail Transport

UN No	3082
Class-primary	9
Packing Group	PGIII
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Azoxystrobin 25%)

Marine Transport

UN No	3082
Class-primary	9
Packing Group	PGIII
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Azoxystrobin 25%)

Air Transport

UN No	3082
Class-primary	9
Packing Group	PGIII

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Proper Shipping Name

 ENVIRONMENTALLY HAZARDOUS
 SUBSTANCE, LIQUID, N.O.S. (Azoxystrobin 25%)

Section 15 - Regulatory Information

New Zealand:

 EPA Approval No: HSR100712 See www.epa.govt.nz for controls.

HSNO Classification: 6.1D (inhalation), 6.3B, 6.9B, 8.3A, 9.1A

HSNO Controls

Approved Handler	This product must be under the control of an approved handler
Additional Controls s77A	The substance must not be applied onto or into water.
Location Certificate	Not applicable
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	100L (9.1A)
Emergency Response Plan trigger Quantities	100L (9.1A)
Secondary Containment	100L (9.1A)

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
UN Number	United Nations Number

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 MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

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.

Please read all labels carefully before using product.

This SDS is prepared in accordance with the NZ Code of Practice (HSNOCOP8) Preparation of Safety Data Sheets.

Issue Date: 17 September 2014

Review Date: 17 September 2019

SAFETY DATA SHEET

Issued by: Turf Culture Pty Ltd

Phone: +61 3 9553 3121

Poisons Information Centre: 0800 764 766 from anywhere in New Zealand