

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	EnviroMax Azoxystrobin 250SC Fungicide
Other means of identification:	Azoxystrobin suspension concentrate; strobilurin insecticide
Recommended use of the chemical and restrictions on use:	For the control of various turf diseases in golf courses, playing fields, amenity areas and lawns as per the Directions for Use.
Supplier:	EnviroMax Technologies Pty Ltd
ABN:	132 643 577
Street Address:	Suite 3, 6 Babarra Street, Stafford, QLD 4503, Australia.
Telephone No:	+ 61- (0) 409 926 561
Email:	www.enviromaxtechnologies.com.au
Distributed by:	ChemBio Pty Ltd PO Box 984 North Lakes QLD, Australia 4509
Emergency Telephone:	+ 61- (0) 409 926 561

2. HAZARDS IDENTIFICATION

Classification of the substance mixture: Classified as Dangerous Goods by the criteria of the Dangerous Goods for Land/Rail, sea (IMDG Code) and for air transport (ICAO/IATA). This material is hazardous according to Safe Work Australia; HAZARDOUS SUBSTANCE.

Classification of the substance or mixture:

Acute toxicity – oral – Cat 4
Acute toxicity-dermal—Cat 4
Acute toxicity-inhalation—Cat 4
Serious eye damage/eye irritation - Cat 1
Specific target organ toxicity - Cat 2
Acute Aquatic toxicity - Cat 1

SIGNAL WORD: Danger



Hazard statements:

H302 Harmful if swallowed
H312 Harmful in contact with skin
H332 Harmful if inhaled
H318 Causes serious eye damage
H371 May cause damage to organs
H401 Toxic to aquatic life.

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Precautionary Statements:

Prevention:

Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing.
Avoid breathing vapours or spray.
Use only outdoors or in a well-ventilated area.
Wash hands, arms and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wash contaminated clothing before reuse.
Wear eye protection/face protection.
Avoid release to the environment.

Response:

Call a POISON CENTRE or doctor/physician if you feel unwell.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Rinse mouth.
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Wash contaminated clothing before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Immediately call a POISON CENTER or doctor/physician.
Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

Store locked up.

Disposal:

Dispose of contents/container in accordance with container label instructions as per local State and Council requirements.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion (w/w)
Azoxystrobin	131860-33-8	24%
Alcohols, C16-18, ethoxylated (< 5 EO)	68439-49-6	4.6%
Other ingredients determined not to be hazardous	Up to 100%	
Other components are not considered hazardous in this formulation and therefore are not required to be disclosed according to the WHS Regulations.		

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor (at once). Have this MSDS with you when you call.

Inhalation: Remove from exposure area to fresh air immediately, seek medical attention.
Skin Contact: Blot or brush away excess chemical. Wash gently and thoroughly with water (use non-abrasive soap) for 10 minutes or until chemical is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts). If irritation persists, repeat flushing and obtain medical advice.
Eye Contact: Quickly and gently blot or brush away product. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water until the product is removed or until a few minutes

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	after irritation has ceased, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face.
Ingestion:	If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.
First Aid Facilities:	Eyewash and normal washroom facilities.
Indication of immediate medical attention and special treatment needed:	Treat symptomatically. Incidences of exposure to other strobilurin fungicides involved upper respiratory tract pain, irritation, chest pain, eye pain, pruritus (itchiness), skin redness, weakness, headache and dizziness. Clinical signs and symptoms reported in test animals include increased salivation, vomiting, regurgitation, urinary incontinence and fluid faeces.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water fog or spray, foam, carbon dioxide (CO ₂) or dry chemical.
Specific hazards arising from the substance or mixture:	The following substances/groups of substances can be released during a fire: oxides of carbon and nitrogen.
Hazchem Code:	•3Z
Special protective equipment and precautions for fire-fighters:	In case of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus and chemical-protective clothing. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately. Do not allow contaminated water to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures/ Environmental precautions:	Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services. Prevent the product or spilled material from entering water bodies. Absorb spilled material with inert material and place in sealable waste container labelled for disposal. Wash down affected area with water and detergent. Absorb and collect washings and place in sealable waste container. Dispose of the container in an approved landfill or under at least 50 cm of soil in a non-crop, non-pasture area away from water sources and homes.
Personal precautions/ Protective equipment:	Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation.
Methods and materials for containment and cleaning up:	Contain - prevent run off into drains and waterways. Procedure for spill: (1) Keep all bystanders away (2) Wear full length clothing and PVC gloves (3) Reposition any leaking containers so as to minimise leakage (4) Sweep spilt material into a pile (5) Shovel into drums (6) Disposal of material will depend upon the extent of the spill: <ul style="list-style-type: none"> • For quantities up to 50 kg of product bury in a secure landfill site. • For quantities greater than 50 kg seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established. (7) Decontaminate spill area with detergent and water and rinse with the smallest volume of water practicable.

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7. HANDLING AND STORAGE

Precautions for safe handling:	No special measures necessary if stored and handled correctly. Keep containers closed at all times - check regularly for leaks or spills. Transport and store upright. Avoid skin and eye contact. Keep out of reach of children. Do not eat, drink or smoke in contaminated areas. Always remove contaminated clothing and wash hands before eating, drinking, smoking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.
Conditions for safe storage, including any incompatibilities:	Store in the original container, in a cool dry well-ventilated, locked place out of the reach of children. DO NOT store in direct sunlight. DO NOT store at temperatures exceeding 35°C. Keep containers closed when not in use - check regularly for leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:	No value assigned for this specific material by Safe Work Australia.
Appropriate engineering controls:	Use in well ventilated areas. Keep containers closed when not in use.
Individual protection measures, such as Personal Protective Equipment (PPE):	The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors. Observe good standards of hygiene and cleanliness. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.
Respiratory Protection:	A respirator is not needed under normal and intended conditions of product use however if ventilation is not adequate then a respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.
Eye and Face protection:	Safety glasses/goggles with side shield protection should be worn as a general precaution. Consult AS/NZS 1336 and AS/NZS 1337 for further information.
Skin Protection:	PVC or nitrile rubber gloves should be worn as a general precaution. Always check with the glove manufacturer or your personal protective equipment supplier regarding the correct type of glove to use. Consult AS/NZS 2161 for further information. Trousers, long sleeved shirt or overalls and closed in shoes or safety footwear should be worn as a general precaution. Consult AS/NZS 2210 and AS/NZS 2919 for further information.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Off white liquid
Colour:	Off white
Odour:	Minimal odour
pH:	7.0-8.0 (100% w/v)
Specific Gravity:	1.082 kg/L
Melting Point/Freezing Point:	No information available
Boiling Point/range:	No information available
Flash Point:	Non-flammable.
Evaporation Point:	No information available
Vapour Pressure:	1.1x10 ⁻⁷ mPa @ 25°C (Azoxystrobin)
Vapour Density:	No information available
Solubility:	6.7 mg/L (Azoxystrobin) EnviroMax Azoxystrobin 250SC Fungicide is a suspension in water.
Partition coefficient: n- octanol/water	3.60x10 ² (Azoxystrobin)
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available

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10. STABILITY AND REACTIVITY

Reactivity:	Non-reactive under normal conditions.
Chemical stability:	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	None known.
Incompatible materials:	No particular incompatibilities.
Hazardous decomposition products:	No hazardous decomposition products if stored and handled as prescribed / indicated.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Cat 4 Acute Oral LD ₅₀ =2092 mg/kg (rat, calculated from ingredients) Cat 4 Acute Dermal LD ₅₀ =4602 mg/kg (rabbit, calculated from ingredients) Cat 4 Acute Inhalation LC ₅₀ =2.93 mg/L (calculated from ingredients)
Skin:	Causes mild skin irritation
Eye:	Causes serious eye damage.
Respiratory or skin sensitisation:	Not considered a skin sensitiser and not expected to be a respiratory sensitiser.
Germ cell mutagenicity:	No data for the product. Azoxystrobin is not considered to be genotoxic via in-vitro and in-vivo studies.
Carcinogenicity:	No data for the product. Azoxystrobin is not considered to be carcinogenic (52 week rat studies). Azoxystrobin did not cause mutations in human lymphocytes, Chinese hamster V79 cells, Salmonella (Ames test), or mouse micronuclei.
Reproductive toxicity:	No data for the product. Azoxystrobin is not considered to have reproductive toxicity. No developmental abnormalities were reported for azoxystrobin administered to rats and rabbits at oral doses up to 165.4 mg/kg bw/d and 500 mg/kg bw/d respectively. Azoxystrobin was not embryotoxic, fetotoxic or teratogenic at doses of up to 300 and 500 mg/kg bw per day in rats and rabbits, respectively.
STOT-single exposure:	May cause damage to the nervous system from repeated oral exposure at high doses. For azoxystrobin a study of acute neurotoxicity in rats found no treatment-related effects on motor activity parameters, brain measurements (weight, length and width) or neurohistopathology at doses of up to and including 2000 mg/kg bw.
STOT-repeated exposure:	May cause damage to the nervous system from repeated oral exposure at high doses. Tests involving repeated azoxystrobin exposure found the major target organs in rats were the liver, kidney and bile duct as shown by changes in organ weights, histopathology, and clinical chemistry parameters.
Aspiration hazard:	Not expected to be an aspiration hazard.
Other information	
Misuse can be harmful to health.	

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Avoid contaminating waterways. Do not discharge product into the environment without control.
Fish:	Information on azoxystrobin technical grade active constituent Highly toxic to fish LC50 (96 h) 0.47 mg/l, <i>Oncorhynchus mykiss</i> NOEC (21 d) 0.147 mg/l, <i>Pimephales promelas</i>

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Aquatic invertebrates:	Highly toxic to aquatic invertebrates EC50 (48 h) 0.23 mg/l, <i>Daphnia magna</i> NOEC (21 d) 0.044 mg/l, <i>Daphnia magna</i> EC50 (96 h) 0.055 mg/L <i>Mysid shrimp</i> NOEC (28 d) 0.8 mg/L <i>Chironomus riparius</i>
Aquatic plants:	EC50 (7 day) 3.2 mg/l (biomass), <i>Lemna gibba</i> EC50 (72 h) 0.36 mg/l (growth), <i>Pseudokirchneriella subcapitata</i>
Birds:	Acute oral LD50 >2000 mg/kg <i>Colinus virginianus</i> (bobwhite quail) Short-term dietary LC50 >1179 mg/kg
Terrestrial insects:	<i>Aphidius rhopalosiphi</i> LR50 >1 kg/ha (harmless) <i>Typhlodromus pyri</i> LR50 >1 kg/ha (harmless)
Persistence/degradability:	Half-life of Azoxystrobin is 78-600 days in aerobic soils (moderately persistent). No evidence of volatility Azoxystrobin is stable to hydrolysis at pH 7 and is not pH sensitive.
Bioaccumulative potential:	Azoxystrobin bioaccumulation potential is considered to be low.
Mobility in Soil:	Slightly to moderately mobile Koc = 589 (Linear) Kd = 8.93 (Linear) Kf = 7.35 (Freundlich) Kfoc = 425 (Freundlich)
Limiting exposure to ecotoxic substance through the setting of EEL values:	Not applicable.

13. DISPOSAL CONSIDERATIONS

Disposal methods:	Triple rinse containers before disposal. Add rinsing to spray tank. DO NOT reuse this container for any other purpose. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver to an approved waste management facility. 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 local/regional/national/international regulations. Product disposal: Do not dispose of undiluted chemicals on site. Dispose of this product only by using according to the label, or at an approved landfill. DO NOT contaminate water supply with chemical or empty container.
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14. TRANSPORT INFORMATION

Road and Rail Transport:	Classified as Dangerous Goods by the criteria of the Dangerous Goods for Land/Rail, sea (IMDG Code) and for air transport (ICAO/IATA). Not subject to the ADG Code when transported by Road or Rail in Australia, in packages 500kg (L) or less; or IBCs.
UN Number:	3082
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains azoxystrobin 23.9%)
Transport hazard class	9
Packing Group:	III
Environmental hazards for Transport Purposes	Marine Pollutant
Hazchem	•3Z



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Public Transport: DO NOT carry more than 1 L of this product on a passenger service vehicle.

15. REGULATORY INFORMATION

Poison Schedule (SUSMP): S6-Poison
APVMA: This product is registered for use by the APVMA. Registration approval number: 68835
AICS: All the constituents of this material are either listed on the Australian Inventory of Chemical Substances (AICS), not required due to the nature of the chemical, or have been assessed under the National Industrial Chemicals (Notification and Assessment) Act 1989 as amended.

16. OTHER INFORMATION

General Information: None
Issue Number: 003
Issue Date: 12 August 2023
In any event, the review and, if necessary, the re-issue of an SDS shall be no longer than 5 years after the last date of issue.
Reason(s) for Issue: Second Issue.
Revised Primary SDS and updated to GHS requirements
Literary Reference: None
Key abbreviations or acronyms used: ADG Code - Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)
AICS - Australian Inventory of Chemical Substances
AgVet Code Act 1994 – Agricultural and Veterinary Chemicals Code Act 1994
APVMA – Agricultural Pesticides and Veterinary Medicines Australia
GHS - Globally Harmonised System of Classification and Labelling of Chemicals (3rd revised edition) 2009
IARC - International Agency for Research on Cancer
LD₅₀ or LC₅₀ – Estimated lethal dose / concentration to kill 50% of the population/sample.
Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (December 2016)
STEL - Short term exposure limit means the average airborne concentration of a substance calculated over a 15 minute period. The STEL should not be exceeded at any time during a normal eight hour working day.
STOT – Specific Target Organ Toxicity
SUSMP - Standard for the Uniform Scheduling of Medicines & Poisons
SWA - Safe Work Australia, formerly ASCC and NOHSC
TGA – Therapeutic Goods Australia
WHS – Workplace Health and Safety

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END OF SDS