

MATERIAL SAFETY DATA SHEET

STATEMENT OF HAZARDOUS NATURE:
Hazardous according to the criteria of NOHSC.

COMPANY DETAILS:

Syngenta Crop Protection Pty Limited
ABN 33 002 933 717
Level 1, 2-4 Lyon Park Road,
NORTH RYDE, NSW, 2113

Telephone No.: (02) 9688 0444
24 Hours Emergency No.: 1 800 033 111

IDENTIFICATION

PRODUCT NAME: Heritage Maxx[®] Fungicide

Formulation type:	Microemulsion	UN Number:	3082
Active Ingredient:	Azoxystrobin	Dangerous Goods Class/ and Subsidiary Risk:	9
Product Code No.:	A-13972A	Packaging Group	III
Chemical type:	Strobilurin	Hazchem Code:	2X
Poisons Schedule:	5	EPG/IERG:	9C1 / 47

USE: Fungicide for control of various diseases of turf grasses.

PHYSICAL DESCRIPTION/PROPERTIES

Appearance:	Yellow liquid	Flash Point:	75±2°C
Odour:	Mild organic	Flammability:	Non-flammable
Boiling/Melting point:	Not available	Combustibility:	C1 - combustible
Specific gravity (H₂O=1)	1.08 (20°C)	Behaviour in water:	Forms microemulsion

OTHER PROPERTIES

pH:	3.3 (25°C)	Explosive properties:	Not explosive
Corrosiveness:	Non-corrosive	Viscosity:	23 mPas (20°C)
Oxidising properties:	Not an oxidising substance		

INGREDIENTS--

	CAS No.	Content (%w/w)
Azoxystrobin technical		>9.5
to give azoxystrobin	131860-33-8	9.5
tetrahydrofurfuryl alcohol	97-99-4	60 - 80
other ingredients determined not to be hazardous		10-30

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE TOXICITY-

This product is unlikely to present a hazard during normal use (WHO Hazard Class III).

Swallowed:	NOT HARMFUL Tests on rats indicate the product is NOT HARMFUL following single doses of undiluted product. (LD ₅₀ > 1714 mg/kg)
Dermal absorption:	NOT HARMFUL Tests on rats indicate the product is NOT HARMFUL due to skin contact following single doses of undiluted product. (LD ₅₀ > 5000 mg/kg)
Inhaled:	NOT HARMFUL Tests on rats indicate the product is NOT HARMFUL due to inhalation of the undiluted product. (LC ₅₀ (4 hr) > 6.4 mg/L - highest attainable concentration)

Irritation - (based on studies with rabbits)

Eye: **MODERATE IRRITANT**
Skin: **SLIGHT IRRITANT**

Sensitisation (skin allergy potential)

NOT A SENSITISER

Poisoning Symptoms

No cases of human poisoning are on record. The poisoning symptoms observed for laboratory animals were non-specific.

CHRONIC TOXICITY -

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.

FIRST AID

In case of poisoning by any exposure route contact a doctor or Poisons Information Centre. Phone 131 126.

Swallowed: Rinse mouth with water. Give plenty of water to drink. If vomiting occurs give further water. Seek medical advice.
Eye: Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. If irritation occurs seek medical advice.
Skin: Remove contaminated clothing and wash affected areas thoroughly with soap and water. If irritation occurs seek medical advice.
Inhaled: Move affected person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until recovered. Seek medical advice if effects persist.

ADVICE TO DOCTOR

No specific antidote exists. Treat symptomatically.

PRECAUTIONS FOR USE

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

EXPOSURE STANDARDS

No value assigned for this specific material by NOHSC, however, supplier recommended hygiene standards are -

	TWA	
	ppm	mg/m ³
Azoxystrobin	--	2

TWA = The time weighted average airborne concentrations over an eight-hour working day, for a five-day working week over an entire working life.

Exposure Potential -

Swallowing is unlikely under normal conditions of usage. Significant skin uptake does not occur. This product is diluted with water prior to use as a spray. This diluted form is less toxic by all routes of exposure.

Re-entry Period - Do not enter treated areas without protective clothing until the spray has dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and a washable hat and chemical resistant gloves. Clothing must be laundered after each day's use.

ENGINEERING CONTROLS

In the Workplace: ensure ventilation is adequate and that air concentrations of components are controlled below quote Workplace Exposure Standards. Keep containers closed when not in use. No special requirements. Product is used outdoors.

PERSONAL PROTECTION

MANUFACTURE, PACKAGING AND TRANSPORT: Avoid skin and eye contact and inhalation of dust. Wear overalls, chemical goggles and PVC gloves. Avoid generating and inhaling dusts. If dust exists, wear dust respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

PREPARATION AND USE OF PRODUCT: When opening the container and preparing the spray, wear:

- elbow length PVC gloves and
- face shield or goggles.

Will irritate the eyes and skin. Avoid contact with eyes and skin. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves and face shield or goggles.

FLAMMABILITY

This product is not flammable, but is combustible.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Store in tightly sealed original containers in a dry secure place away from fertilisers, seed, feed and food. Store out of direct sunlight. Keep out of reach of children, unauthorised persons and animals.

Transport Classification – Road & Rail, Sea (IMDG):

UN No.:	3082	Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS
Class:	9		SUBSTANCE, LIQUID, N.O.S.
Packing Group:	III	Additional Information:	AZOXYSTROBIN 9.5%, MARINE POLLUTANT

SPILLS AND DISPOSAL

In case of spillage it is important to take all steps necessary to:

- Avoid eye and skin contact and inhalation of dust.
- Avoid contamination of 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 further leakage.
- (4) Dam and absorb spill with an absorbent material (e.g. sand or soil).
- (5) Shovel the absorbed spill into drums.
- (6) Disposal of the absorbed material will depend upon the extent of the spill.
 - For quantities up to 50 L of product bury in a secure landfill site.
 - For quantities greater than 50 L 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 the spill area with detergent and water and rinse with the smallest volume of water practicable.

Dispose of empty, used containers by:

- (a) Triple rinsing or preferably pressure rinsing containers with water. Add the rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site.
- (b) If recycling, replace cap and return clean containers to recycler or designated collection point.
- (c) If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

FIRE/EXPLOSION HAZARD

This product is a combustible solid. In common with many organic chemicals, may form flammable vapours in air. Extinguish warehouse and factory fires using water fog, fine-water spray, foam or dry agent (carbon dioxide or chemical powder). During a fire this product may release smoke and hazardous decomposition products. When fighting a major fire wear SCBA and structural firefighters uniform. Do not allow fire-water to enter drains.

OTHER INFORMATION

The active ingredient **azoxystrobin** is toxic to aquatic organisms. Contamination of waterways should be strictly avoided. DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray to drift onto adjacent areas, particularly streams, rivers or other waterbodies.

Rainbow Trout, *Oncorhynchus mykiss*, LC₅₀ (96 h) = 1.1 mg/L

Bluegill sunfish, LC₅₀ (96 h) = 2.4 mg/L

Azoxystrobin is practically non-toxic to birds, mammals, bees and earthworms. Oral LD₅₀ bobwhite quail > 2000 mg/kg, dietary LC₅₀ bobwhite quail > 5200 mg/kg, dietary LD₅₀ mallard duck > 5200 mg/kg.

Azoxystrobin rapidly degrades in soil. Significant leaching has not been observed in field studies.

Note: This product is a registered agricultural chemical and must therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Federal health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

CONTACT POINT:	Regulatory Affairs Manager - Crop Protection - (02) 9688 0444
24 HOURS EMERGENCY CONTACT:	1 800 033 111

This Material Safety Data Sheet 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 should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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