

SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	HEADWAY MAXX Turf Fungicide
Other Names:	Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S (Azoxystrobin and propiconazole) Applicable only for marine and air transport
	Product code: A14212C
Recommended Use:	Fungicide for use in turf
Company Details:	Syngenta Crop Protection Pty Limited ABN 33 002 933 717
Address:	Level 1, 2-4 Lyonpark Road MACQUARIE PARK NSW 2113 AUSTRALIA
Telephone Number:	(02) 8876 8444
Emergency Telephone Number:	24 hours - 1800 033 111

Section 2: HAZARDS IDENTIFICATION

Hazard Classification:	Classified as a hazardous chemical according to the Australian criteria for the classification of chemicals
Risk Phrases:	—
Safety Phrases:	—

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE		
Chemical Identity of Pure Substance:	Azoxystrobin	Propiconazole
Synonym:	ICI5504	CGA64250
CAS Number:	131860-33-8	60207-90-1

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (% w/v)
Azoxystrobin	131860-33-8	6.2
Propiconazole	60207-90-1	10.4
Tetrahydrofurfuryl alcohol	97-99-4	>60
Other ingredients determined not to be hazardous	-	to 100

Section 4: FIRST AID MEASURES

Description of Necessary First Aid Measures:	<p>In case of poisoning by any exposure route contact a doctor or Poisons Information Centre on 131 126. Have the product label or SDS with you when calling or going for treatment.</p> <p>Ingestion: If swallowed, seek medical advice immediately. DO NOT induce vomiting</p> <p>Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required</p> <p>Skin contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a doctor. Wash contaminated clothing before re-use</p> <p>Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a doctor or Poisons Information Centre immediately</p>
Poisoning Symptoms:	Poisoning symptoms in laboratory animals were non-specific
Medical Advice:	There is no specific antidote available. Treat symptomatically

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	<p>Small fires Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide</p> <p>Large fires Use alcohol-resistant foam or water spray DO NOT use a solid water stream as it may scatter and spread fire</p>
Hazards from Combustion Products:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Exposure to decomposition products may be a hazard to health
Special Protective Precautions and Equipment for Fire Fighters:	Wear full protective clothing and self-contained breathing apparatus
Further Information:	<p>DO NOT allow run-off from fire fighting to enter drains or water courses</p> <p>Cool closed containers exposed to fire with water spray</p>

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	In case of spillage it is important to take all steps necessary to <ul style="list-style-type: none">• Avoid eye and skin contact• Avoid contamination of waterways
Methods and Materials for Containment and Clean Up:	Procedure for spill <ol style="list-style-type: none">(1) Keep all bystanders away(2) Wear goggles, half face-piece respirator with organic vapour/gas cartridge or canister, full length clothing and elbow-length chemical resistant gloves.(3) Re-position any leaking containers so as to minimise further leakage(4) Dam and absorb spill with an absorbent material (eg sand or soil)(5) Shovel the absorbed spill into drums(6) Disposal of the absorbed material will depend upon the extent of the spill<ul style="list-style-type: none">• 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 spill area using hydrated lime

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	<p>Harmful if inhaled. Will irritate the eyes. DO NOT inhale spray mist. Avoid contact with eyes. When opening the container, preparing product for use and using the product wear:</p> <ul style="list-style-type: none">• cotton overalls buttoned to the neck and wrist (or equivalent clothing)• elbow-length chemical resistant gloves• face shield or goggles <p>If applying by hand wear:</p> <ul style="list-style-type: none">• cotton overalls buttoned to the neck and wrist over normal clothing• elbow-length chemical resistant gloves• face shield or goggles• half facepiece respirator with organic vapour/gas cartridge or canister <p>If product gets in eyes wash it out immediately with water. Wash hands after use. After each day's use wash gloves, respirator (if rubber wash with detergent and warm water), face shield or goggles and contaminated clothing.</p>
Conditions for Safe Storage:	Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

National Exposure Standards:	No official exposure standards have been set for the product or other ingredients of this product	
Syngenta Exposure Standards:	Azoxystrobin Propiconazole	2 mg/m ³ 8 mg/m ³ (8 hour time weighted average)
Biological Limit Values:	No biological limit allocated	
Engineering Controls:	No special requirements. Product is used outdoors	
Personal Protective Equipment:	<p>Harmful if inhaled. Will irritate the eyes. DO NOT inhale spray mist. Avoid contact with eyes. When opening the container, preparing product for use and using the product wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist (or equivalent clothing) • elbow-length chemical resistant gloves • face shield or goggles <p>If applying by hand wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist over normal clothing • elbow-length chemical resistant gloves • face shield or goggles • half facepiece respirator with organic vapour/gas cartridge or canister <p>If product gets in eyes wash it out immediately with water. Wash hands after use. After each day's use wash gloves, respirator (if rubber wash with detergent and warm water), face shield or goggles and contaminated clothing.</p>	

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light yellow to brown liquid	Boiling Point/Range:	Not known
Odour:	Ether	Freezing/Melting Point:	Not known
pH:	4–8 at 1% w/v	Solubility:	Not known
Vapour Pressure:	Not known	Specific Gravity or Density:	1.088 g/cm ³
Vapour Density:	Not known		
Flash Point:	78°C at 752 mmHg	Explosive Properties:	Not explosive
Upper and Lower Flammable (Explosive) Limits in Air:	Not known	Oxidising Properties:	Not oxidising
Autoignition Temperature:	265°C	Corrosiveness:	Non corrosive to fluorinated and non fluorinated HDPE

Section 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions
Conditions to Avoid:	None known
Incompatible Materials:	None known
Hazardous Decomposition Products:	Combustion or thermal decomposition will evolve toxic and irritant vapours
Hazardous Reactions:	None known Hazardous polymerization does not occur

Section 11: TOXICOLOGICAL INFORMATION

Health Effects from Likely Routes of Exposure:

Acute:	Oral toxicity:	Low toxicity LD ₅₀ = 2,176 mg/kg (f rat)
	Dermal toxicity:	Low toxicity LD ₅₀ = >5,050 mg/kg (rat)
	Inhalation:	Low toxicity LC ₅₀ (4 hours) = >2.68 mg/L (rat)
	Skin irritation:	Non irritant (rabbit)
	Eye irritation:	Moderately irritant (rabbit)
	Sensitisation:	Non sensitising (guinea pig)

Chronic: Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	<p>Toxic to fish LC₅₀ (96 hours) = 10.7 mg/L Carp (<i>Cyprinus carpio</i>) Based on test results obtained with a similar product</p> <p>Toxic to aquatic invertebrates EC₅₀ (48 hours) = 2.2 mg/L Water flea (<i>Daphnia magna</i>) Based on test results obtained with a similar product</p> <p>Toxic to algae EbC₅₀ (96 hours) = 2.6 mg/L ErC₅₀ (96 hours) = 9.4 mg/L Green algae (<i>Selenastrum capricornutum</i>) Based on test results obtained with a similar product</p>
Persistence and Degradability:	<p>Stability in water Degradation half life: >12 days at 25°C</p> <p>Stability in soil Degradation half life: 59.5 days Azoxystrobin and propiconazole are both stable in water and not persistent in soil</p>
Mobility:	<p>Azoxystrobin has low to very high mobility in soil Propiconazole has low to medium mobility in soil</p>
Environmental Fate (Exposure):	<p>Azoxystrobin and propiconazole are degraded by microbial action</p>
Bioaccumulative Potential:	<p>Azoxystrobin has a medium potential to bioaccumulate Propiconazole has a low to medium potential to bioaccumulate</p>

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods and Containers:	<p>Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. 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.</p>
Special Precautions for Landfill or Incineration:	<p>Not applicable</p>

Section 14: TRANSPORT INFORMATION

LAND TRANSPORT ADG			
UN Number:	None allocated	Packing Group:	None allocated
UN Proper Shipping Name:	None allocated	Special Precautions for User:	None allocated
Class:	None allocated	Hazchem Code:	None allocated
Subsidiary Risk:	None allocated		

SEA TRANSPORT IMDG			
UN Number:	3082	Packing Group:	III
UN Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (Azoxystrobin and propiconazole)	Special Precautions for User:	None allocated
Class:	9	Hazchem Code:	2X
Subsidiary Risk:	None allocated	Marine Pollutant:	Marine pollutant

AIR TRANSPORT ICAO / IATA			
UN Number:	3082	Packing Group:	III
UN Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (Azoxystrobin and propiconazole)	Special Precautions for User:	None allocated
Class:	9	Hazchem Code:	2X
Subsidiary Risk:	None allocated		Marine pollutant

Section 15: REGULATORY INFORMATION

APVMA Product Number: 63615

Poisons Schedule (SUSDP): S5

Section 16: OTHER INFORMATION

Date of preparation or last revision: October 2009

Source of Data: The information provided in this SDS is sourced from Syngenta internal studies which have been conducted according to Regulatory requirements including OECD and CIPAC Guidelines and EC Directives. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

Note: This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions

CONTACT POINT: Regulatory Affairs Manager, Syngenta Crop Protection Pty Limited
(02) 8876 8444

24 HOURS EMERGENCY CONTACT: 1800 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 SDS 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.