

## 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) 8876 8444  
24 Hours Emergency No.: 1 800 033 111

## IDENTIFICATION

### PRODUCT NAME: Banner MAXX® Turf Fungicide

<b>Formulation type:</b>	microemulsion concentrate	<b>Dangerous Goods Class</b>	none allocated
<b>Active Ingredient:</b>	propiconazole	<b>Subsidiary Risk (ADG):</b>	none allocated
<b>Product Code No.:</b>	A-6780 D	<b>Hazchem Code:</b>	none allocated
<b>Chemical type:</b>	triazole	<b>Packing Group</b>	none allocated
<b>UN Number (ADG):</b>	none allocated	<b>Poisons Schedule:</b>	5
		<b>EPG/IERG:</b>	none allocated

**USE:** Fungicide for the control of Dollar Spot in Bent and Queensland Blue Couch, and Spring Dead Spot in Couch.

### PHYSICAL DESCRIPTION/PROPERTIES

<b>Appearance:</b>	Deep blue liquid	<b>Flash Point:</b>	83°C (Setaflash)
<b>Odour:</b>	Mild organic	<b>Flammability:</b>	Non-flammable
<b>Boiling/Melting point:</b>	Not available	<b>Combustibility:</b>	C1 - combustible
<b>Vapour pressure (25°C):</b>	$5.6 \times 10^{-5}$ Pa (propiconazole)	<b>Behaviour in water:</b>	Disperses
<b>Specific gravity (H<sub>2</sub>O=1)</b>	0.089 (25°C)		

### OTHER PROPERTIES

<b>pH (10% aqueous):</b>	4 – 7 (25°C)	<b>Explosive properties:</b>	Not explosive
<b>Corrosiveness:</b>	Non-corrosive	<b>Viscosity:</b>	58 mPas (22°C)
<b>Oxidising properties:</b>	Not an oxidising substance	<b>Volatility:</b>	$9.2 \times 10^{-5}$ Pa·m <sup>3</sup> /mol (propiconazole)

### INGREDIENTS -

	CAS No.	Content (%w/v)
<b>propiconazole (technical grade)</b>		>15.5
to give propiconazole	60207-90-1	15.5
tetrahydrofurfuryl alcohol	97-99-4	40 - 60
vegetable oil ethoxylate		10 - 40
other ingredients determined not to be hazardous		<10

## HEALTH HAZARD INFORMATION

### HEALTH EFFECTS

#### ACUTE TOXICITY

This product is harmful according to NOHSC Australia.

Swallowed:	<b>NOT HARMFUL</b> Tests on rats indicate this product is NOT HARMFUL following single oral doses of undiluted product. (LD <sub>50</sub> = 4340 mg/kg)
Dermal absorption:	<b>NOT HARMFUL</b> Tests on rabbits indicate this product is NOT HARMFUL following skin contact with undiluted product. (LD <sub>50</sub> >2020 mg/kg)
Inhaled:	<b>NOT HARMFUL</b> Tests on rats indicate this product is NOT HARMFUL due to inhalation of undiluted product. (LC <sub>50</sub> (4h) > 2.6 mg/L, highest attainable concentration)

**Irritation**  
 Eye (rabbit): **MODERATE IRRITANT**  
 Skin (rabbit): **SLIGHT-IRRITANT**

**Sensitisation**  
 Skin (Guinea pig): **NOT A SENSITISER**

**Poisoning Symptoms**

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

**CHRONIC** (Active Ingredient)

**Propiconazole technical** has been extensively tested on laboratory mammals and in test-tube systems. Chronic administration of large doses of **propiconazole technical** was associated with an increased liver tumour incidence in mice but not in rats. This proved to be related to a promotive effect of **propiconazole technical** on proliferative changes genetically pre-existing in mice and therefore has no relevance to humans. No evidence of mutagenic, teratogenic or reproductive effects was obtained.

**FIRST AID**

**If poisoning occurs by any exposure route contact a doctor or Poisons Information Centre. Phone 131 126.**

Swallowed: **DO NOT** induce vomiting. Give a glass of water. Get to a doctor.  
 Eye: Flush with large quantities of clean tap water for at least 15 minutes.  
 Skin: Remove contaminated clothing and wash affected areas thoroughly with soap and water.  
 Inhaled: Move affected person to fresh air and keep at rest until recovered. If not breathing, give artificial respiration and get to a doctor.

**ADVICE TO DOCTOR**

No specific antidote exists. Treat symptomatically.

## PRECAUTIONS FOR USE

**ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS**

**EXPOSURE STANDARDS**

No exposure standards have been established for the components of this product.

**Exposure Potential** - Swallowing is unlikely under normal conditions of usage. Significant skin uptake does not occur. Inhalation is a possible route of exposure. 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.

**ENGINEERING CONTROLS**

No special requirements. Product is used outdoors.

**PERSONAL PROTECTION**

Harmful if swallowed. Will irritate the eyes. May irritate the skin. Avoid contact with eyes and skin.

When opening the container and preparing spray wear:

- cotton overalls buttoned to the neck and wrist (or equivalent clothing),
- elbow-length PVC gloves and
- face shield or goggles.

If applying by hand, wear:

- cotton overalls buttoned to the neck and wrist (or equivalent clothing) and
- elbow-length PVC gloves.

If product gets in eyes wash it out immediately with water. Wash hands after use.

After each day's use, wash gloves, face shield or goggles and contaminated clothing.

**FLAMMABILITY**

This product is NON-FLAMMABLE. Product 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 – Sea (IMDG):**

<b>UN No.:</b>	3082	<b>Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS
<b>Class:</b>	9		SUBSTANCE, LIQUID, N.O.S.
<b>Packing Group:</b>	III	<b>Additional Information:</b>	PROPICONAZOLE 15.5%, MARINE POLLUTANT

**SPILLS AND DISPOSAL**

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

- Avoid eye and skin contact.
- 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.

**Disposal instructions for 10 L returnable containers:**

- (a) Empty contents fully into application equipment.
- (b) Close all valves and return containers to point of sale for refilling or storage.

**FIRE/EXPLOSION HAZARD**

This product is non-flammable and non-explosive. Product is combustible. Extinguish warehouse and factory fires using fine-water spray or foam. During a fire this product may release smoke and hazardous decomposition products. When fighting a major fire wear an air-supplied respirator.

**OTHER INFORMATION**

**Propiconazole technical** is toxic to fish, aquatic invertebrates and green algae; and practically non-toxic to birds and bees.

Acute toxicity studies with catfish, rainbow trout, carp, bluegill, golden orfe and the marine spot gave LC<sub>50</sub> values from 2.2 to 6.8 mg/L. The EC<sub>50</sub> for *Daphnia magna* and the Mysid shrimp were 4.8 mg/L and 0.5 mg/L, respectively. Toxicity studies on freshwater algae and two diatom species showed EC<sub>50</sub> values ranging from 0.02 mg/L to 13.6 mg/L.

**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.

<b>CONTACT POINT:</b> Regulatory Affairs Manager - Crop Protection - (02) 8876 8444 <b>24 HOURS EMERGENCY CONTACT:</b> 1 800 033 111
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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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