

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:	PRIMO MAXX® Turf Growth Regulator		
Formulation type:	micro emulsion	Dangerous Goods Class/ and Subsidiary Risk:	none allocated
Active Ingredient:	trinexapac-ethyl	Packing Group	none allocated
Product Code No.:	A11825A	Hazchem Code:	none allocated
Chemical type:	cyclohexadione	Poison Schedule	5

USE: For the growth manipulation of turf as per the directions for use table on the product container.

PHYSICAL DESCRIPTION/PROPERTIES

Appearance:	Amber liquid	Specific gravity	1.07 g/cm ³ (20°C)
Odour:	Odourless	Flash Point:	76°C
Boiling Point/ Melting Point	Not available	Flammability:	Not applicable
Vapour pressure:	2.16 x 10 ⁻³ Pa at 25°C (active ingredient)	Solubility in water:	1100 mg/L (active ingredient)

OTHER PROPERTIES

Combustibility:	C1 combustible	pH	3.63 (1% solution)
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INGREDIENTS--

	CAS No.	Content (%w/v)
trinexapac-ethyl technical		
to give trinexapac-ethyl	95266-40-3	10 – 15
tetrahydrofurfuryl alcohol solvent	97-99-4	> 50
other ingredients determined not to be hazardous		30 – 40

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE

Toxicity - This product is slightly hazardous (WHO Hazard Class III).

Swallowed:	LOW TOXICITY Based on the toxicity to rats of the formulation, this product is of low toxicity following a single oral dose. LD ₅₀ > 5050 mg/kg
Dermal absorption:	SLIGHT TOXICITY Based on the toxicity to rabbits of the formulation this product is of low toxicity following skin contact with undiluted product. LD ₅₀ > 2020 mg/kg

Inhaled: **SLIGHT TOXICITY**
Tests on rats using the formulation indicate a low toxicity due to inhalation of undiluted product.
LC₅₀ (4 h) >2.75 mg/L

Irritation - (based on studies on rabbits)

Eye: **MODERATELY IRRITANT**
Skin: **NON-IRRITANT**

Sensitisation (skin allergy potential)

Tests with guinea pigs using the formulation indicate no potential for skin sensitisation.

Poisoning Symptoms

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

CHRONIC -

Trinexapac-ethyl technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence of mutagenic, carcinogenic, teratogenic or reproductive effects was obtained. Chronic effects at high doses of trinexapac-ethyl (> 5000 ppm) to dogs were found to liver, kidney and brain.

FIRST AID

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

Swallowed: Do not induce vomiting. Give a glass of water. Seek medical attention.
Eye: Flush with large quantities of clean tap water for at least 15 minutes.
Skin: Remove contaminated clothing and wash skin thoroughly with soap and water.
Inhaled: Move affected person to fresh air and keep at rest until recovered.

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 standard have been set for the components of this product.

Exposure Potential - Swallowing is unlikely under normal conditions of usage. Inhalation of spray mist is a possible route of exposure. Skin uptake is the main route of exposure.

Re-entry Period - Do not enter treated areas without protective clothing until the spray has dried. Do not allow the public to enter the treated area until spray has dried.

ENGINEERING CONTROLS

No special requirements. Product is used outdoors.

PERSONAL PROTECTION

Will irritate the eyes. Avoid contact with the eyes. If product in eyes, wash it out immediately with water.

When opening the container, preparing the spray and using the prepared spray wear:

- cotton overalls buttoned to the neck and wrist,
- elbow-length nitrile or PVC gloves and
- face shield or goggles.

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

FLAMMABILITY

This product is NON-FLAMMABLE.

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.

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 elbow-length PVC gloves.
- (3) Reposition any leaking containers so as to minimise 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 50L of product bury in a secure landfill site.
 - For quantities greater than 50L seek advice (use emergency contact number below) from the manufacturer 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.

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) Breaking, crushing or puncturing the container to prevent reuse.
- (c) Disposing of in a local authority landfill site. If there is no local authority landfill 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 non-flammable and non-explosive. Product is combustible. Extinguish warehouse and factory fires using dry chemical, foam or CO₂. During a fire this product may release smoke and hazardous decomposition products. When fighting a major fire wear an air-supplied respirator.

OTHER INFORMATION

Trinexapac-ethyl technical is practically non-toxic to birds, bees, adult fish, freshwater crustaceans and soil organisms. The LC₅₀ for rainbow trout (96h) is 68 mg/L. Fish larvae and embryos, blue green algae, freshwater plants, oysters and marine shrimp showed some sensitivity to trinexapac-ethyl, with the most sensitive class of organisms being algae.

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) 8876 8444 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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