

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: ALTO® 100 SL Fungicide

Formulation type:	soluble liquid	Dangerous Goods Class/ and Subsidiary Risk (ADG):	none allocated
Active Ingredient:	cyproconazole	Hazchem Code:	none allocated
Product Code No.:	A-9898A	Packing Group:	none allocated
Chemical type:	triazole	Poisons Schedule:	none allocated
UN Number (ADG):	none allocated		

USE: For the control of Leaf Spot and Rust in Peanuts and for the control of Target Spot of potatoes.

PHYSICAL DESCRIPTION/PROPERTIES

Appearance:	Yellow to brown liquid	Flash Point:	144°C (closed cup)
Odour:	Non-specific	Flammability:	Not flammable
Specific gravity (H ₂ O=1)	1.11 - 1.14 (20°C)	Behaviour in water:	Soluble in water
Vapour pressure:	2.6 x (10 ⁻⁷) torr at 20°C		

OTHER PROPERTIES

Viscosity:	120mPa.s (20°C)	Combustibility:	C1 - Combustible
Volatility:	Not known	Corrosiveness:	Non-corrosive

INGREDIENTS -

	CAS No.	Content (% w/v)
Cyproconazole (technical grade)	94361-06-5	>10
to give Cyproconazole	94631-07-6	10
N-methyl pyrrolidone	872-50-4	<10
Ethoxylated alkylphenol ester		<10
Polyalkylene glycol		to 100

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE

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

Swallowed:	LOW TOXICITY Tests on rats indicate a low toxicity following single doses of the undiluted product. (LD ₅₀ >5000 mg/kg)
Dermal absorption:	LOW TOXICITY Tests on rats indicate a low toxicity due to skin contact with the undiluted product. (LD ₅₀ >4000 mg/kg)
Inhaled:	LOW TOXICITY Tests on rats indicate a low toxicity due to inhalation of the undiluted product. (LC ₅₀ (4 h) >5.65 mg/L air (highest attainable concentration))

Irritation

Eye: **SLIGHT IRRITANT**
Skin: **NON-IRRITANT**

Sensitization - (based on results of **cyproconazole technical** on guinea pigs) -

Skin: **NOT A SENSITISER**

Poisoning symptoms -

No case of human poisoning due to this product is on record. The poisoning symptoms observed for laboratory mammals were non-specific.

CHRONIC (Active Ingredient)

Cyproconazole technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence of mutagenic, teratogenic or reproductive effects was obtained.

FIRST AID

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

Swallowed: If swallowed **DO NOT** induce vomiting. Give a glass of water and contact a doctor or Poisons Information Centre.
Eye: May irritate the eyes. Avoid contact with eyes. If product gets in eyes wash it out immediately with water.
Skin: Avoid contact with skin. If skin contact occurs remove contaminated clothing and wash affected areas thoroughly with soap and water.
Inhaled: Move person to fresh air and keep at rest until recovered. Apply artificial respiration if necessary.

ADVICE TO DOCTOR

No specific antidote is available. If poisoning is suspected apply symptomatic therapy.

PRECAUTIONS FOR USE**ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS****EXPOSURE STANDARDS**

No exposure standards 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. This product is diluted with water prior to use as a spray. This diluted form is less toxic by all exposure routes.

Re-entry Period - Do not enter treated areas without protective clothing until spray has dried.

ENGINEERING CONTROLS

No special requirements. Product is used outdoors.

PERSONAL PROTECTION

May irritate the eyes and skin. Avoid contact with eyes and skin. Do not inhale dust or spray mist. If product gets on skin immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. Use only protective equipment bearing the mark of the Standards Association with Australia.

FLAMMABILITY

This product is NON-FLAMMABLE and non-explosive.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Store in tightly sealed original containers in a dry secure place away from fertilizers, seed, feed and food. Store out of direct sunlight and NOT in areas where the temperatures are greater than 40°C and lower than -10°C. Keep out of reach of children, unauthorized 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 goggles, half face-piece respirator with combined dust and vapour cartridge, 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 non-flammable and non-explosive. 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

Cyproconazole technical is highly toxic to green algae, slightly toxic to fish and Daphnia, slightly to moderately toxic to birds and practically non-toxic to earthworms.

[EC₅₀ (96 h), green algae = 0.077 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.

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.

® Registered Trade Mark of a Syngenta Group Company, Basel, Switzerland.