

SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	ALTO® 100SL Fungicide
Other Names:	Product code no.: A9898A
Recommended Use:	For the control of Leaf Spot and Rust in Peanuts
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:	Not 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:	Cyproconazole
Synonym:	SAN 619
CAS Number:	94361-06-5

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (% w/v)
Cyproconazole	94361-06-5	10
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 and show this container or label. 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 physician. 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 physician or Poison Information Center 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><i>Extinguishing media - small fires</i> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide extinguisher. DO NOT use direct jet of water.</p> <p><i>Extinguishing media - large fires</i> Use alcohol-resistant foam or water spray. DO NOT use direct jet of water.</p>
Hazards from Combustion Products:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion. Exposure to decomposition products may be a hazard to health.
Special Protective Precautions and Equipment for Fire Fighters:	When fighting a major fire wear self-contained breathing apparatus and protective equipment.

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	<p>In case of spillage it is important to take all steps necessary to</p> <ul style="list-style-type: none"> • Avoid eye and skin contact. • Avoid contamination of waterways
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Methods and Materials for Containment and Clean Up:	((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, soil, diatomaceous earth or vermiculite). (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 (use emergency contact number below) from the manufacturer 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 water
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Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	When opening the container and preparing spray wear: <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist • a washable hat • elbow-length butyl rubber gloves When using the prepared spray wear: <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist • a washable hat
Conditions for Safe Storage:	KEEP OUT OF REACH OF CHILDREN. 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

	<i>Component</i>	<i>Exposure limit</i>	<i>Value type</i>
National Exposure Standards:	No exposure standard allocated		
Syngenta Exposure Standards:	Cyproconazole	0.5 mg/m ³	TWA
Biological Limit Values:	No biological limit allocated		
Engineering Controls:	No special requirements. Product is used outdoors.		
Personal Protective Equipment:	When opening the container and preparing spray wear: <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist • a washable hat • elbow-length butyl rubber gloves When using the prepared spray wear: <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist • a washable hat 		

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow to brown liquid	Boiling Point/Range:	Not applicable
Odour:	weak	Freezing/Melting Point:	Not available
pH:	2 – 6 at 1% w/v	Solubility in water	360 g/L at 20°C
Vapour Pressure:	2.25 x 10(-7) mmHg at 25°C	Specific Gravity or Density:	1.10 – 1.14 at 20°C
Vapour Density:	Not available		

Flash point:	131°C	Explosive properties:	Not explosive
Upper and Lower Flammable (Explosive) Limits in Air:	Not flammable	Oxidising properties:	Not oxidising
		Combustibility:	Combustible
Ignition Temperature:	Not available	Corrosiveness:	Not corrosive

Section 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable under standard 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 Tests on rats indicate this product has a low toxicity following single doses of undiluted product. (LD ₅₀ > 2000 mg/kg)
	Dermal toxicity:	LOW TOXICITY Tests on rats indicate this product has a low toxicity following skin contact with the undiluted product. (LD ₅₀ > 4000 mg/kg)
	Inhalation:	LOW TOXICITY Tests on rats indicate this product is not harmful due to inhalation of active ingredient (LC ₅₀ (4 h) > 5 mg/L)
	Skin irritation:	NON-IRRITANT
	Eye irritation:	NON-IRRITANT
	Sensitisation:	NOT A SENSITISER
Chronic:	Cyproconazole technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence was obtained of mutagenic, carcinogenic or neurotoxic effects. Maternal and fetal toxicity were observed at high dose levels in studies on rats. No adverse effects in humans are expected at levels below the occupational exposure limit and when the product is handled and used according to the label.	

Section 12: ECOLOGICAL INFORMATION

The following information is based on cyproconazole Technical material

Ecotoxicity:	<p>Slightly toxic to fish <i>Cyprinus carpio</i> (Common carp), LC₅₀ = 64.5 mg/L , 96 h <i>Salmo gairdneri</i> (Rainbow trout), LC₅₀ = 141 mg/L, 96 h</p> <p>Slightly toxic to aquatic invertebrates <i>Daphnia magna</i> (water flea) EC₅₀ = 59 mg/L , 48 h</p> <p>Moderately toxic to algae <i>Selenastrum capricornutum</i> (green algae) E_bC₅₀ = 2.34 mg/L, 72 h <i>Selenastrum capricornutum</i> (green algae) E_rC₅₀ > 10 mg/L, 72 h</p> <p>Slightly toxic to soil dwelling organisms: earthworm (<i>Eisenia foetida</i>), LC₅₀ >335 mg/kg (14 day)</p>
Persistence and Degradability:	Cyproconazole is persistent in water but not in soil
Mobility	Cyproconazole has low to moderate mobility in soil
Environmental Fate (Exposure):	Incorporated into organic matter
Bioaccumulative Potential:	Cyproconazole does not bioaccumulate

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods and Containers:	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.
Special Precautions for Landfill or Incineration:	Not applicable

Section 14: TRANSPORT INFORMATION

LAND TRANSPORT ADG	Not a dangerous good in Australia		
UN Number:	Not allocated	Packing Group:	Not allocated
UN Proper Shipping Name:	Not allocated	Special Precautions for User:	Not allocated
Class:	Not allocated	Hazchem Code:	Not allocated
Subsidiary Risk:	Not allocated		

SEA TRANSPORT IMDG			
UN Number:	Not allocated	Subsidiary Risk:	Not allocated
UN Proper Shipping Name:	Not allocated	Packing Group:	Not allocated
Class:	Not allocated	Marine Pollutant:	No

AIR TRANSPORT IATA-DGR			
UN Number:	Not allocated	Subsidiary Risk:	Not allocated
UN Proper Shipping Name:	Not allocated	Packing Group:	Not allocated
Class:	Not allocated		

Section 15: REGULATORY INFORMATION

APVMA Product Number:	47527
Poisons Schedule (SUSDP):	exempt

Section 16: OTHER INFORMATION

Date of preparation or last revision: May 2010
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.

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