

SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	CHORUS® Foliar Fungicide
Other Names:	Proper shipping name: Environmentally Hazardous Substance, Solid, N.O.S. (Cyprodinil). Applicable only for marine and air transport
	Product code: A8637C
Recommended Use:	For the control of black spot (apple scab and pear scab) of apples and pears.
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:	R36 Irritating to eyes
Safety Phrases:	-

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE		
Chemical Identity of Pure Substance:	Cyprodinil	
Synonym:	CGA219417	
CAS Number:	121552-61-2	

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (% w/w)
Cyprodinil	121552-61-2	50
Diatomaceous earth	61790-53-2	10 - <30
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 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><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.</p> <p>DO NOT use direct jet of water.</p>
Hazards from Combustion Products:	Fire will spread by smoldering or slow decomposition. 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:	<p>Procedure for spill:</p> <ol style="list-style-type: none"> (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) For a product spill: Sweep granule concentrates into a pile. <p>For a prepared spray spill: Dam and absorb spill with an absorbent material (e.g. sand or soil).</p> <ol style="list-style-type: none"> (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 kg of product bury in a secure landfill site. • For quantities greater than 50 kg 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:	<p>Will irritate the eyes and skin. Avoid contact with eyes. Wash hands after use. Repeated exposure may cause allergic reactions. When opening the container, preparing the spray and using the prepared spray wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist • a washable hat, • elbow-length PVC gloves • face shield or goggles <p>After each day's use, wash gloves, face shield or goggles and contaminated clothing.</p>
Conditions for Safe Storage:	<p>Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight.</p>

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:	Silica	10 mg/m ³	TWA
Syngenta Exposure Standards:	Cyprodinil	7 mg/m ³	TWA
Biological Limit Values:	No biological limit allocated		
Engineering Controls:	No special requirements. Product is used outdoors.		
Personal Protective Equipment:	<p>Will irritate the eyes and skin. Avoid contact with eyes. Wash hands after use. Repeated exposure may cause allergic reactions. When opening the container, preparing the spray and using the prepared spray wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist • a washable hat, • elbow-length PVC gloves • face shield or goggles <p>After each day's use, wash gloves, face shield or goggles and contaminated clothing.</p>		

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Tan - brownish granules	Boiling Point/Range:	Not applicable
Odour:	Weak	Melting Point:	> 78 °C
pH:	7 - 11 (1% aqueous dispersion)	Solubility in water	Miscible
Vapour Pressure:	Not available	Specific Gravity or Density:	0.48 g/cm ³
Vapour Density:	Not available		

Flash point:	> 150 °C	Explosive properties:	Not explosive
Upper and Lower Flammable (Explosive) Limits in Air:	Not highly flammable	Oxidising properties:	Not oxidising
Ignition Temperature:	260 °C	Combustibility:	Not applicable
		Corrosiveness:	Not corrosive

Section 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable at normal ambient temperature and pressure.
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 a similar formulation. (LD ₅₀ >2000 mg/kg)
	Dermal toxicity:	LOW TOXICITY Tests on rats indicate this product has a low toxicity following skin contact with a similar formulation (LD ₅₀ > 2000 mg/kg)
	Inhalation:	LOW TOXICITY Tests on rats indicate this product is not harmful due to inhalation of a similar product. (LC ₅₀ (4 hr) >2.3 mg/L)
	Skin irritation:	NON IRRITANT (based on studies with rabbits using a similar formulation)
	Eye irritation:	SLIGHT IRRITANT (based on studies with rabbits using undiluted formulation)
	Sensitisation:	NOT A SKIN SENSITISER (based on studies with Guinea pigs using a similar formulation)
Chronic:	Cyprodinil technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence of mutagenic, carcinogenic, teratogenic or reproductive effects was obtained.	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	<p><i>Toxicity to fish:</i> Moderately toxic to fish <i>Oncorhynchus mykiss</i> (rainbow trout): LC₅₀ =6.2 mg/L, 96 h</p> <p><i>Toxicity to daphnia and other aquatic invertebrates:</i> Highly toxic to aquatic invertebrates <i>Daphnia magna</i> (Water flea): EC₅₀ = 0.14 mg/L, 48 h</p> <p><i>Toxicity to algae:</i> Practically non-toxic to algae <i>Pseudokirchneriella subcapitata</i> (green algae): E_bC₅₀ = 4.2 mg/L, 72 h</p> <p><i>Toxicity to soil dwelling organisms:</i> Slightly toxic to earthworms <i>Eisenia foetida</i> (earthworm): LC₅₀ >100 mg/kg, 14 day</p> <p><i>Bees:</i> Non- toxic to bees <i>Apis mellifera</i> (honey bee): LD₅₀ oral > 316 µg/bee, contact > 101 µg/bee</p>
Persistence and Degradability:	Cyprodinil is not persistent in soil or water.
Mobility	Cyprodinil has low to slight mobility in soil.
Environmental Fate (Exposure):	Incorporated into C, N, O and H containing organic molecules.
Bioaccumulative Potential:	Cyprodinil has low potential for bioaccumulation.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods and Containers:	Single rinse before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. Puncture or shred 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:	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:	3077	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	Environmentally Hazardous Substance, Solid, N.O.S. (Cyprodinil)	Packing Group:	III
Class:	9	Marine Pollutant:	Yes

AIR TRANSPORT IATA-DGR			
UN Number:	3077	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	Environmentally Hazardous Substance, Solid, N.O.S. (Cyprodinil)	Packing Group:	III
Class:	9		

Section 15: REGULATORY INFORMATION

APVMA Product Number:	49660
Poisons Schedule (SUSDP):	5

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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