

SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	SWITCH® Fungicide
Other Names:	Proper shipping name: Environmentally Hazardous Substance, Solid, N.O.S. (Cyprodinil and Fludioxonil) Applicable only for marine and air transport
	Product code: A9219B
Recommended Use:	Fungicide for the control of grey mould (<i>Botrytis cinerea</i>) in grapes
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	Fludioxonil
Synonym:	CGA 219417	CGA 173506
CAS Number:	121552-61-2	131341-86-1

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (% w/w)
Cyprodinil	121552-61-2	37.5
Fludioxonil	131341-86-1	25
Diatomaceous earth	61790-53-2	<10
Other ingredients determined not to be hazardous	-	to 100

Section 4: FIRST AID MEASURES

<p>Description of Necessary First Aid Measures:</p>	<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>
<p>Poisoning Symptoms: Medical Advice:</p>	<p>Poisoning symptoms in laboratory animals were non-specific Treat symptomatically.</p>

Section 5: FIRE FIGHTING MEASURES

<p>Suitable Extinguishing Media:</p>	<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>
<p>Hazards from Combustion Products:</p>	<p>This product contains combustible organic components that may burn and decompose during a fire producing dense black smoke containing hazardous products of combustion. Combustion products are toxic and /or irritant. Exposure to decomposition products may be a hazard to health.</p>
<p>Special Protective Precautions and Equipment for Fire Fighters:</p>	<p>Wear full protective clothing and self-contained breathing apparatus.</p>

Section 6: ACCIDENTAL RELEASE MEASURES

<p>Emergency Procedures:</p>	<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 full length clothing and PVC gloves (3) Reposition any leaking containers so as to minimise leakage (4) Sweep spilt material into a pile (5) Shovel into drums (6) Disposal of the 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 from the manufacturer (use emergency contact number below) 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
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Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	<p>Will irritate the eyes. Avoid contact with eyes. If product in eyes, wash it out immediately with water.</p> <p>When opening the container, preparing spray and using the prepared spray wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist (or equivalent clothing), • elbow length PVC gloves and • faceshield or goggles. <p>Wash hands after use. After each day's use, wash gloves, faceshield or goggles and contaminated clothing</p>
Conditions for Safe Storage:	<p>Store in closed original container in a cool, well ventilated area. DO NOT store for prolonged periods in 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:	No exposure standard allocated		
Syngenta Exposure Standards:	Cyprodinil	7 mg/m ³	TWA
	Fludioxonil	10 mg/m ³	TWA
Biological Limit Values:	No biological limits allocated		
Engineering Controls:	No special requirements. Product is used outdoors.		
Personal Protective Equipment:	<p>Will irritate the eyes. Avoid contact with eyes. If product in eyes, wash it out immediately with water.</p> <p>When opening the container, preparing spray and using the prepared spray wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist (or equivalent clothing), • elbow length PVC gloves and • faceshield or goggles. <p>Wash hands after use. After each day's use, wash gloves, faceshield or goggles and contaminated clothing</p>		

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Grey to brown granule	Boiling Point/Range:	Not applicable
Odour:	weak	Freezing/Melting Point:	Not available
pH:	9 (1% water)	Solubility:	Dispersible
Vapour Pressure:	Not available	Bulk Density:	0.537 g/cm ³
Vapour Density:	Not available		

Flash Point:	Not applicable	Explosive Properties:	Not explosive
Upper and Lower Flammable (Explosive) Limits in Air:	Not flammable	Oxidising Properties:	Not oxidising
Ignition Temperature:	350°C	Combustibility:	Not applicable
		Corrosiveness:	Non-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 a low toxicity following single doses of undiluted product. (LD ₅₀ >5000 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 > 2000 mg/kg)
	Inhalation:	LOW TOXICITY Tests on rats indicate this product is not harmful due to inhalation of undiluted product. (LC ₅₀ (4 h) >2.51 mg/L)
	Skin irritation:	NON IRRITANT
	Eye irritation:	MODERATE IRRITANT
	Sensitisation:	NOT A SENSITISER
Chronic:	Cyprodinil technical and Fludioxonil technical have been extensively tested on laboratory mammals and in test-tube systems. No evidence of mutagenic, carcinogenic, teratogenic or reproductive effects was obtained with each substance.	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	<p><i>Toxicity to fish:</i> Moderately toxic to fish <i>Oncorhynchus mykiss</i> (Rainbow trout): LC₅₀ = 3.1 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> Highly toxic to algae <i>Selenastrum capricornutum</i> (green algae): E_bC₅₀ = 0.6 mg/L, 72 h; E_rC₅₀ = 1.6 mg/L, 72 h</p> <p><i>Toxicity to soil dwelling organisms:</i> Slightly toxic to earthworms <i>Eisenia foetida</i> (earthworm): Cyprodinil: LC₅₀ = 182 mg/kg, 14 day Fludioxonil: LC₅₀ >1000 mg/kg, 14 day</p> <p><i>Bees:</i> Practically non-toxic to bees <i>Apis mellifera</i> (honey bee): LD₅₀ > 100 µg/bee (48 h)</p>
Persistence and Degradability:	<p>Cyprodinil is not persistent in soil or water Fludioxonil is stable in water, but not in soil.</p>
Mobility	<p>Cyprodinil has low to slight mobility in soil. Fludioxonil has low to very high mobility in soil.</p>
Environmental Fate (Exposure):	<p>Fludioxonil is not readily biodegradable.</p>
Bioaccumulative Potential:	<p>Cyprodinil does not bioaccumulate. Fludioxonil does not bioaccumulate.</p>

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods and Containers:	<p>Single rinse liner bag with water. Add the rinsings to the tank mix or dispose of rinsate in a disposal pit away from desirable plants and their roots, and watercourses. On-site disposal of undiluted product is unacceptable. Crush or puncture the container to prevent reuse. Dispose of in a local authority landfill site that does not burn its refuse. If there is no local authority landfill readily available in your area, bury the containers under at least 50 cm of soil at a licensed/approved disposal site. DO NOT burn empty containers or product.</p>
Special Precautions for Landfill or Incineration:	<p>Not applicable</p>

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:	-
UN Proper Shipping Name:	Environmentally Hazardous Substance, Solid, N.O.S. (Cyprodinil and Fludioxonil)	Packing Group:	III
Class:	9	Marine Pollutant:	Marine pollutant

AIR TRANSPORT IATA - DGR			
UN Number:	3077	Subsidiary Risk:	-
UN Proper Shipping Name:	Environmentally Hazardous Substance, Solid, N.O.S. (Cyprodinil and Fludioxonil)	Packing Group:	III
Class:	9		

Section 15: REGULATORY INFORMATION

APVMA Product Number:	51797
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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