

## SAFETY DATA SHEET

### Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name:</b>	<b>SCHOLAR<sup>®</sup> Fungicide</b>
<b>Other names:</b>	<b>Proper shipping name:</b> Environmentally Hazardous Substance, Liquid, N.O.S. (fludioxonil) <b>Applicable only for marine and air transport</b> <b>Product code no.:</b> A9859A
<b>Recommended Use:</b>	Fungicide for control of certain post-harvest diseases in citrus, pome fruit, stone fruit and kiwi fruit
<b>Company Details:</b>	<b>Syngenta Australia Pty Ltd</b> ABN 33 002 933 717
<b>Address:</b>	<b>Level 1, 2-4 Lyonpark Road, MACQUARIE PARK, NSW, 2113 AUSTRALIA</b>
<b>Telephone number:</b>	<b>(02) 8876 8444</b>
<b>Emergency Telephone number:</b>	<b>24 Hours - 1800 033 111</b>
<b>Poisons Information Centre :</b>	<b>131 126</b>

### Section 2: HAZARDS IDENTIFICATION

<b>Hazard Classification:</b>	Not classified as a hazardous chemical according to the Australian criteria for the classification of chemicals
<b>Risk Phrases:</b>	–
<b>Safety Phrases:</b>	–

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE	
<b>Chemical Identity of Pure Substance:</b>	Fludioxonil
<b>Synonym:</b>	CGA173506
<b>CAS Number:</b>	131341-86-1

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (%w/v)
Fludioxonil	131341-86-1	23
Other ingredients determined not to be hazardous	-	to 100

## Section 4: FIRST AID MEASURES

<b>Description of Necessary First Aid Measures:</b>	<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><b>Ingestion:</b> If swallowed, seek medical advice immediately and show the container or label. Do NOT induce vomiting.</p> <p><b>Eye contact:</b> 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><b>Skin contact:</b> 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><b>Inhalation:</b> Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison control centre immediately.</p>
<b>Poisoning Symptoms:</b>	Poisoning symptoms in laboratory animals were non-specific.
<b>Medical Advice:</b>	Treat symptomatically.

## Section 5: FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	<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>
<b>Hazards from Combustion Products:</b>	<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>
<b>Precautions for Fire Fighters and Special Protective Equipment:</b>	When fighting a major fire wear self-contained breathing apparatus and protective equipment.

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and overalls.
<b>Environmental Precautions:</b>	Washings must be prevented from entering surface water drains or waterways.
<b>Procedure for Spill:</b>	<ol style="list-style-type: none"><li>(1) Keep all bystanders away.</li><li>(2) Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves.</li><li>(3) Reposition any leaking containers so as to minimise further leakage.</li><li>(4) Dam and absorb spill with an absorbent material (e.g. sand, soil, diatomaceous earth or vermiculite).</li><li>(5) Shovel the absorbed spill into drums.</li><li>(6) Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.</li></ol>
<b>Procedure for Disposal:</b>	<p>Disposal of the absorbed material will depend upon the extent of the spill. Contaminated material must be disposed of in accordance with all local authority requirements.</p> <ul style="list-style-type: none"><li>• For quantities up to 50 L of product bury in a secure approved landfill site.</li><li>• 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.</li></ul>

## Section 7: HANDLING AND STORAGE

<b>Handling Practices:</b>	<p>May irritate the eyes. Harmful if inhaled. Repeated exposure may cause allergic disorders. Avoid contact with the eyes. DO NOT inhale spray mist.</p> <p>When opening the container and preparing the product for use, wear:</p> <ul style="list-style-type: none"><li>• cotton overalls buttoned to the neck and wrist (or equivalent clothing)</li></ul> <p>If applying by hand wear:</p> <ul style="list-style-type: none"><li>• half facepiece respirator with organic vapour/gas cartridge or canister.</li></ul> <p>Change cartridge if odour or taste of pesticide is noticed (a maximum of 8 hours of use is recommended).</p> <p>Wash hands after use. After each day's use, wash respirator and if rubber wash with detergent and warm water, and contaminated clothing.</p>
<b>Conditions for Safe Storage and Store Site Requirements:</b>	Keep out of reach of children. 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.

## 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>
<b>National Exposure Standards:</b>	None		
<b>Syngenta Exposure Standards:</b>	fludioxonil	10 mg/m <sup>3</sup>	8h TWA
<b>Biological Limit Values:</b>	Not applicable		
<b>Engineering Controls:</b>	<p>No special requirements. If used according to label directions exposure of workers will not exceed the above exposure standard.</p> <p>Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use.</p> <p>If airborne mists or vapours are generated, use local exhaust ventilation controls.</p> <p>Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.</p>		
<b>Personal Protective Equipment:</b>	<p><i>Protective measures:</i> The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.</p> <p><i>Respiratory protection:</i> Harmful if inhaled. . DO NOT inhale spray mist. If airborne mists or vapours are generated in enclosed areas, use local exhaust ventilation controls. A particulate filter respirator may be necessary until effective technical measures are installed. If applying by hand wear a half facepiece respirator with organic vapour/gas cartridge or canister. Change cartridge if odour or taste of pesticide is noticed (a maximum of 8 hours of use is recommended).</p> <p><i>Hand protection:</i> Repeated exposure may cause allergic disorders. DO NOT re-handle treated fruit until the product has been allowed to dry, unless wearing chemical resistant gloves.</p> <p><i>Eye protection:</i> May irritate the eyes. Avoid contact with eyes. Follow any site specific eye protection policies.</p> <p><i>Skin and body protection:</i> When opening the container and preparing the product for use, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). Wash hands after use. After each day's use, wash respirator and if rubber wash with detergent and warm water, and contaminated clothing.</p>		

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Grey to beige liquid	<b>Flash Point:</b>	> boiling point
<b>Odour:</b>	Earthy, tangy	<b>Flammability:</b>	Not flammable
<b>pH:</b>	6 – 8 at 1% w/v	<b>Surface tension:</b>	41.6 – 43.5 mN/m at 20°C
<b>Density:</b>	1.10 – 1.15 g/mL at 20°C	<b>Solubility in water:</b>	Forms suspension

<b>OTHER PROPERTIES</b>		<b>Combustibility:</b>	Not combustible
<b>Explosive properties:</b>	Not explosive	<b>Corrosiveness:</b>	Not corrosive to stainless steel. Slight corrosion to tin plate, galvanised sheet steel and sheet steel.
<b>Oxidising properties:</b>	Not oxidising		

## Section 10: STABILITY AND REACTIVITY

<b>Stability of the Substance:</b>	Stable under standard conditions.
<b>Conditions to Avoid:</b>	Not applicable
<b>Incompatible Materials:</b>	None expected under normal conditions
<b>Hazardous Decomposition Products</b>	Combustion or thermal decomposition will evolve toxic and irritant vapours
<b>Hazardous Reactions:</b>	Not applicable

## Section 11: TOXICOLOGICAL INFORMATION

<b>Health Effects from Likely Routes of Exposure:</b>		
<b>Acute:</b>	<b>Oral toxicity:</b>	<b>LOW TOXICITY</b> Tests on rats indicate a low toxicity following single doses of the undiluted product. (LD <sub>50</sub> >5,000 mg/kg)
	<b>Dermal toxicity:</b>	<b>LOW TOXICITY</b> Tests on rats indicate a low toxicity due to dermal contact with the undiluted product. (LD <sub>50</sub> >5,050 mg/kg)
	<b>Inhalation:</b>	<b>LOW TOXICITY</b> Tests on rats using the active ingredient indicate a low toxicity due to inhalation of the undiluted product. (LC <sub>50</sub> (4h) >2.09 mg/L air)
	<b>Skin irritation:</b>	<b>NON IRRITANT</b>
	<b>Eye irritation:</b>	<b>SLIGHT IRRITANT</b>
	<b>Sensitisation:</b>	<b>MILD SENSITISER</b>
<b>Chronic:</b>	<b>Fludioxonil technical</b> has been extensively tested on laboratory mammals and in test-tube systems. No evidence of mutagenic, carcinogenic, teratogenic or reproductive effects was obtained. Liver and kidney toxicity occur at high dose levels.	

## Section 12: ECOLOGICAL INFORMATION

Fludioxonil is practically nontoxic to birds and bees, but highly toxic to aquatic invertebrates and fish. The following information is based on fludioxonil technical material.

<b>Ecotoxicity</b>	<i>Toxicity to fish:</i>	<b>Highly toxic to fish</b> <i>Oncorhynchus mykiss</i> (rainbow trout): LC <sub>50</sub> = 0.47 mg/L, 96 h <i>Lepomis macrochirus</i> (bluegill): LC <sub>50</sub> = 0.74 mg/L, 96h
	<i>Toxicity to daphnia and other aquatic invertebrates:</i>	<b>Highly toxic to Daphnia</b> <i>Daphnia magna</i> (Water flea): EC <sub>50</sub> = 0.4 – 0.9 mg/L, 48 h
	<i>Toxicity to algae:</i>	<b>Moderately toxic to algae</b> <i>Anabaena flos-aquae</i> (bluegreen algae): E <sub>r</sub> C <sub>50</sub> = 5.6 mg/L, 96 h
	<i>Toxicity to soil dwelling organisms:</i>	<b>Practically non-toxic to earthworms</b> <i>Eisenia foetida</i> (earthworm): LC <sub>50</sub> >1000 mg/kg, 14 day
<b>Persistence/ degradability:</b>	Fludioxonil is persistent in soils and stable in water.	
<b>Mobility:</b>	Fludioxonil has low mobility in soil.	
<b>Bioaccumulative potential:</b>	Fludioxonil does not bioaccumulate.	

## Section 13: DISPOSAL CONSIDERATIONS

<b>Product Disposal:</b>	Dispose of this product only according to the label instructions. Do not contaminate drains, streams, rivers or waterways with the chemical or used container. Add rinsings to treatment tank.
	<b>Dip disposal</b> Unused or spent dip should be disposed of carefully to avoid contamination of streams, rivers or waterways. Dispose of dip in an authorised dip disposal facility.
<b>Container Disposal:</b>	Triple rinse or preferably pressure rinse containers with water. Add the rinsings to the treatment 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.

## Section 14: TRANSPORT INFORMATION

<b>LAND TRANSPORT ADG</b>	Not a dangerous good in Australia		
<b>UN Number:</b>	None allocated	<b>Packing Group:</b>	None allocated
<b>UN Proper Shipping Name:</b>	None allocated	<b>Special Precautions for User:</b>	None allocated
<b>Class:</b>	None allocated	<b>Hazchem Code:</b>	None allocated
<b>Subsidiary Risk:</b>	None allocated		

<b>SEA TRANSPORT</b> IMDG			
<b>UN Number:</b>	3082	<b>Packing Group:</b>	III
<b>UN Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUDIOXONIL)	<b>Special Precautions for User:</b>	None allocated
<b>Class:</b>	9	<b>Hazchem Code:</b>	2X
<b>Subsidiary Risk:</b>	None allocated	<b>Additional Information:</b>	MARINE POLLUTANT

<b>AIR TRANSPORT</b> IATA-DGR			
<b>UN Number:</b>	3082	<b>Class:</b>	9
<b>UN Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUDIOXONIL)	<b>Subsidiary Risk:</b>	None allocated
		<b>Packing Group:</b>	III

### Section 15: REGULATORY INFORMATION

<b>APVMA Approval Number:</b>	63391
<b>Poisons Schedule (SUSDP):</b>	5

## Section 16: OTHER INFORMATION

**Date of preparation or last revision:** March 2013

**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 EU 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 Manager, Syngenta Australia Pty Ltd  
(02) 8876 8444

**24 HOURS EMERGENCY CONTACT: 1800 033 111**

This 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.

### **DISCLAIMER**

This product complies with the specifications in its statutory registration. Implied terms and warranties are excluded. Syngenta's liability for breach of the express or any non-excludable implied warranty is limited to product replacement or purchase price refund. The purchaser must determine suitability for intended purpose and take all proper precautions in the handling, storage and use of the product including those on the label and/or safety data sheet failing which Syngenta shall have no liability.