

## MATERIAL SAFETY DATA SHEET

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

<b>Product Name:</b>	<b>FONGARID® 250 WP Systemic Fungicide</b>
<b>Other Names:</b>	<b>Product code:</b> A5753B
<b>Recommended Use:</b>	Fungicide for control of Damping Off and Root Rot diseases caused by Pythium and Phytophthora by soil application
<b>Company Details:</b>	<b>Syngenta Crop Protection Pty Limited</b> ABN 33 002 933 717
<b>Address:</b>	<b>Level 1, 2-4 Lyonpark Road</b> <b>Macquarie Park NSW 2113</b> <b>AUSTRALIA</b>
<b>Telephone Number:</b>	<b>(02) 8876 8444</b>
<b>Emergency Telephone Number:</b>	<b>24 hours - 1800 033 111</b>

### Section 2: HAZARDS IDENTIFICATION

<b>Hazard Classification:</b>	Hazardous according to the criteria of ASCC
<b>Risk Phrases:</b>	R22 Harmful if swallowed
<b>Safety Phrases:</b>	–

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

<b>SUBSTANCE</b>	
<b>Chemical Identity of Pure Substance:</b>	Furalaxyl
<b>Synonym:</b>	CGA 38140
<b>CAS Number:</b>	57646-30-7

<b>MIXTURE</b>		
<b>Chemical Identity of Ingredients</b>	<b>CAS No</b>	<b>Proportion (% w/w)</b>
Furalaxyl	57646-30-7	25
Silica	112926-00-8	10–<30
Kaolin	9038-95-3	30–60
Other ingredients determined not to be hazardous	-	10–<30

## 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. 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 doctor. Wash contaminated clothing before re-use.</p> <p><b>Inhalation:</b> Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a doctor or Poison Information Centre immediately.</p>
<b>Poisoning Symptoms:</b>	No case of human poisoning due to this product is on record. The poisoning symptoms observed in experimental animals were non-specific
<b>Medical Advice:</b>	There is no specific antidote available. Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	<p><b>Small fires</b> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide</p> <p><b>Large fires</b> Use alcohol-resistant foam or water spray DO NOT use a solid water stream as it may scatter and spread fire</p>
<b>Hazards from Combustion Products:</b>	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Exposure to decomposition products may be a hazard to health.
<b>Special Protective Precautions and Equipment for Fire Fighters:</b>	In the event of fire, wear full protective clothing and self-contained breathing apparatus.
<b>Further Information:</b>	DO NOT allow runoff from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>Emergency Procedures:</b>	In case of spillage it is important to take all steps necessary to <ul style="list-style-type: none"><li>• Avoid eye and skin contact</li><li>• Avoid contamination of waterways</li></ul>
<b>Methods and Materials for Containment and Clean Up:</b>	<b>Procedure for spill</b> <ol style="list-style-type: none"><li>(1) Keep all bystanders away</li><li>(2) Wear full length clothing and elbow-length PVC gloves</li><li>(3) Reposition any leaking containers so as to minimise leakage.</li><li>(4) <b>For a product spill:</b> Sweep powder concentrate into a pile <b>For a prepared spray spill:</b> Dam and absorb spill with an absorbent material (eg sand or soil)</li><li>(5) Shovel the absorbed material into drums</li><li>(6) Disposal of the absorbed material will depend upon the extent of the spill<ul style="list-style-type: none"><li>• For quantities up to 50 kg of product bury in a secure landfill site</li><li>• 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</li></ul></li><li>(7) Decontaminate spill area with detergent and water and rinse with the smallest volume of water practicable</li></ol>

## Section 7: HANDLING AND STORAGE

<b>Precautions for Safe Handling:</b>	Avoid contact with eyes and skin. DO NOT inhale dust or spray mist. If product or spray 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.
<b>Conditions for Safe Storage:</b>	Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight.

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

<b>National Exposure Standards:</b>	No exposure standard allocated
<b>Syngenta Exposure Standards:</b>	The nuisance particulate exposure standard of 10 mg/m <sup>3</sup> of respirable air should not be exceeded for airborne dust generated from this material
<b>Biological Limit Values:</b>	No biological limit allocated
<b>Engineering Controls:</b>	No special requirements. Product is used outdoors
<b>Personal Protective Equipment:</b>	Avoid contact with eyes and skin. DO NOT inhale dust or spray mist. If product or spray 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.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	White to dark grey powder	<b>Boiling Point/Range:</b>	Not available
<b>Odour:</b>	Not specific	<b>Freezing/Melting Point:</b>	Not available
<b>pH:</b>	6-9 at 1% w/v	<b>Solubility:</b>	Suspensible in water
<b>Vapour Pressure:</b>	Not available	<b>Specific Gravity or Density:</b>	0.2-0.3 g/cm <sup>3</sup>
<b>Vapour Density:</b>	Not available	<b>Miscibility</b>	Miscible

<b>Flash point:</b>	Not a liquid	<b>Explosive properties:</b>	Not available
<b>Upper and Lower Flammable (Explosive) Limits in Air:</b>	Not flammable	<b>Oxidising properties:</b>	Not available
<b>Ignition Temperature:</b>	Not available	<b>Combustibility:</b>	Not available
		<b>Corrosiveness:</b>	Not corrosive

## Section 10: STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under standard conditions
<b>Conditions to Avoid:</b>	None known
<b>Incompatible Materials:</b>	None known
<b>Hazardous Decomposition Products:</b>	Combustion or thermal decomposition will evolve toxic and irritant vapours
<b>Hazardous Reactions:</b>	None known Hazardous polymerisation does not occur

## Section 11: TOXICOLOGICAL INFORMATION

**Health Effects from Likely Routes of Exposure:**

<b>Acute:</b>	<b>Oral toxicity:</b>	<b>Low toxicity</b> LD <sub>50</sub> = 5,000 g/kg (rat)
	<b>Dermal toxicity:</b>	<b>Low toxicity</b> LD <sub>50</sub> = >5,050 mg/kg (rat)
	<b>Inhalation:</b>	<b>Low toxicity</b> LC <sub>50</sub> (4 hours) = >2.6 mg/L (rat)
	<b>Skin irritation:</b>	<b>Practically non irritant</b>
	<b>Eye irritation:</b>	<b>Minimal irritant</b>
	<b>Sensitisation:</b>	<b>Not a sensitiser</b>

**Chronic:** Furalaxyl technical has been extensively tested on laboratory animals and in test-tube systems. No evidence of mutagenic, carcinogenic, teratogenic or reproduction effects was obtained

**Section 12: ECOLOGICAL INFORMATION**

<b>Ecotoxicity:</b>	<p><b>Slightly toxic to fish</b> LC<sub>50</sub> (96 hours) = 34.8 mg/L Guppy (<i>Poecilia reticulata</i>) Derived from components</p> <p><b>Practically non toxic to aquatic invertebrates</b> EC<sub>50</sub> (48 hours) = &gt;100 mg/L Water flea (<i>Daphnia magna</i> Straus) Derived from components</p> <p><b>Practically non toxic to algae</b> EbC<sub>50</sub> and ErC<sub>50</sub> (72 hours) = &gt;100 mg/L Green algae (<i>Scenedesmus subspicatus</i>) Derived from components</p> <p><b>Practically non-toxic to birds and bees</b></p>
<b>Persistence and Degradability:</b>	Furalaxyl is not persistent in soil
<b>Mobility:</b>	Furalaxyl is slightly mobile in soil
<b>Environmental Fate (Exposure):</b>	Rapidly degraded and mineralised by micro organisms
<b>Bioaccumulative Potential:</b>	Furalaxyl has medium bioaccumulation potential

### Section 13: DISPOSAL CONSIDERATIONS

<b>Disposal Methods and Containers:</b>	Rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. Dispose of at 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.
<b>Special Precautions for Landfill or Incineration:</b>	Not applicable

### Section 14: TRANSPORT INFORMATION

<b>LAND TRANSPORT</b> ADG	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>	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>Marine Pollutant:</b>	Not a marine pollutant

<b>AIR TRANSPORT</b> ICAO / IATA			
<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		

## Section 15: REGULATORY INFORMATION

<b>APVMA Product Number:</b>	30459
<b>Poisons Schedule (SUSDP):</b>	Schedule 5

## Section 16: OTHER INFORMATION

<b>Date of preparation or last revision:</b> May 2008
<b>Source of Data:</b> 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.
<b>Note:</b> This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions
<b>CONTACT POINT:</b> Regulatory Affairs Manager, Syngenta Crop Protection Pty Limited (02) 8876 8444 <b>24 HOURS EMERGENCY CONTACT: 1800 033 111</b>
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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