

## SAFETY DATA SHEET

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

<b>Product Name:</b>	<b>RIDOMIL® GOLD 25G</b>
<b>Other Names:</b>	<b>Product code:</b> A9600D
<b>Recommended Use:</b>	Fungicide for the control of phytophthora root rot of avocados, phytophthora root rot and trunk canker of macadamia nuts, phytophthora trunk rot of peaches, pink rot of potatoes when used with Ridomil Gold MZ and damping off of certain vegetable crops.
<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>	Classified as a hazardous chemical according to the Australian criteria for the classification of chemicals.
<b>Risk Phrases:</b>	R 22 Harmful if swallowed R 36 Irritating to eyes.
<b>Safety Phrases:</b>	-

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE	
<b>Chemical Identity of Pure Substance:</b>	Metalaxyl-M
<b>Synonym:</b>	CGA329351, Mefenoxam
<b>CAS Number:</b>	70630-17-0

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (% w/w)
Metalaxyl-M	70630-17-0	25
Montmorillonite	1302-78-9	>60
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 this 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> 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>
<b>Poisoning Symptoms:</b>	Poisoning symptoms in laboratory 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><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>Special Protective Precautions and Equipment for Fire Fighters:</b>	When fighting a major fire wear self-contained breathing apparatus and protective equipment.

## Section 6: ACCIDENTIAL 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>	<ol style="list-style-type: none"> <li>Keep all bystanders away.</li> <li>Wear full length clothing and PVC gloves.</li> <li>Reposition any leaking containers so as to minimise further leakage.</li> <li><b>For a product spill:</b> Sweep granule concentrates into a pile.</li> <li>Shovel the granules into drums.</li> <li>Decontaminate the spill area with detergent and water and rinse with water.</li> </ol>

## Section 7: HANDLING AND STORAGE

<b>Precautions for Safe Handling:</b>	<p>Harmful if inhaled. Will irritate the eyes, nose throat and skin. Avoid contact with eyes and skin. DO NOT inhale dust. When opening the container and preparing product for use wear</p> <ul style="list-style-type: none"> <li>cotton overalls buttoned to the neck and wrist (or equivalent clothing),</li> <li>elbow length PVC gloves, and</li> <li>goggles</li> <li>Disposable mask</li> </ul> <p>When using the product, wear:</p> <ul style="list-style-type: none"> <li>cotton overalls buttoned to the neck and wrist (or equivalent clothing),</li> <li>elbow length PVC gloves</li> </ul> <p>If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, goggles or face shield and contaminated clothing</p>
<b>Conditions for Safe Storage:</b>	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>
<b>National Exposure Standards:</b>	Quartz	0.1 mg/m <sup>3</sup>	TWA
<b>Syngenta Exposure Standards:</b>	Metalaxyl-M	10 mg/m <sup>3</sup>	TWA
<b>Biological Limit Values:</b>	No biological limit allocated		
<b>Engineering Controls:</b>	No special controls needed. Product is used outdoors		

<b>Personal Protective Equipment:</b>	<p>Harmful if inhaled. Will irritate the eyes, nose throat and skin. Avoid contact with eyes and skin. DO NOT inhale dust. When opening the container and preparing product for use wear</p> <ul style="list-style-type: none"> <li>• cotton overalls buttoned to the neck and wrist (or equivalent clothing),</li> <li>• elbow length PVC gloves, and</li> <li>• goggles</li> <li>• Disposable mask</li> </ul> <p>When using the product, wear:</p> <ul style="list-style-type: none"> <li>• cotton overalls buttoned to the neck and wrist (or equivalent clothing),</li> <li>• elbow length PVC gloves</li> </ul> <p>If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, goggles or face shield and contaminated clothing</p>
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**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Light brown to red granules	<b>Boiling Point/Range:</b>	Not Applicable
<b>Odour:</b>	Not determined	<b>Melting Point:</b>	Not available
<b>pH:</b>	6 - 10 (1% w/v water)	<b>Solubility in water</b>	Miscible
<b>Vapour Pressure:</b>	Not available	<b>Specific Gravity or Density:</b>	Not available

<b>Flash point:</b>	Does not flash	<b>Explosive properties:</b>	Not explosive
<b>Upper and Lower Flammable (Explosive) Limits in Air:</b>	not highly flammable	<b>Oxidising properties:</b>	Not oxidising
<b>Ignition Temperature:</b>	Not available	<b>Combustibility:</b>	Not applicable
		<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 polymerization 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> Tests on rats indicate this product has a low toxicity following single doses of the undiluted product. (LD <sub>50</sub> >5000 mg/kg)
	<b>Dermal toxicity:</b>	<b>LOW TOXICITY</b> Tests on rats indicate this product has a low toxicity following skin contact with undiluted product. (LD <sub>50</sub> >2,000 mg/kg)
	<b>Inhalation:</b>	<b>HARMFUL</b> Tests on rats indicate this product is harmful due to inhalation of undiluted product. (LC <sub>50</sub> (4h) = 1.06 mg/L air)
	<b>Skin irritation:</b>	<b>SLIGHT IRRITANT</b>
	<b>Eye irritation:</b>	<b>MODERATE IRRITANT (Rabbit)</b>
	<b>Sensitisation:</b>	<b>NOT A SKIN SENSITISER</b>
<b>Chronic:</b>	<b>Metalaxyl-M</b> , either as technical grade Metalaxyl-M or as a 50% component of technical grade metalaxyl, has been extensively tested on laboratory mammals and in test-tube systems. No evidence of mutagenic, teratogenic or reproductive effects was obtained.	

## Section 12: ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	<i>Toxicity to fish:</i>	<b>Practically non-toxic to fish</b> <i>Salmo trutta</i> (trout): LC <sub>50</sub> >100 mg/L, 96 h (derived from study results with metalaxyl-M)
	<i>Toxicity to daphnia and other aquatic invertebrates:</i>	<b>Practically non-toxic to aquatic invertebrates</b> <i>Daphnia magna</i> (Water flea): EC <sub>50</sub> >100 mg/L, 48 h
	<i>Toxicity to algae:</i>	<b>Practically non-toxic to algae</b> <i>Scenedesmus subspicatus</i> (green algae): E <sub>r</sub> C <sub>50</sub> >100 mg/L, 72 h
	<i>Toxicity to soil dwelling organisms:</i>	<b>Practically non-toxic to earthworms</b> <i>Eisenia foetida</i> (earthworm): LC <sub>50</sub> >830 mg/kg, 14 d
<b>Persistence and Degradability:</b>	Metalaxyl-M is not persistent in water and soil	
<b>Mobility</b>	Metalaxyl-M has a range from low to very high mobility in soil depending on soil type.	
<b>Environmental Fate (Exposure):</b>	Incorporated into organic molecules	
<b>Bioaccumulative Potential:</b>	Metalaxyl-M has low potential for bioaccumulation	

### Section 13: DISPOSAL CONSIDERATIONS

<b>Disposal Methods and Containers:</b>	Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Dispose of rinsings in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. 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. 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>Subsidiary Risk:</b>	None allocated
<b>UN Proper Shipping Name:</b>	None allocated	<b>Packing Group:</b>	None allocated
<b>Class:</b>	None allocated	<b>Marine Pollutant:</b>	No

<b>AIR TRANSPORT</b> IATA-DGR			
<b>UN Number:</b>	None allocated	<b>Subsidiary Risk:</b>	None allocated
<b>UN Proper Shipping Name:</b>	None allocated	<b>Packing Group:</b>	None allocated
<b>Class:</b>	None allocated		

### Section 15: REGULATORY INFORMATION

<b>APVMA Product Number:</b>	50120
<b>Poisons Schedule (SUSDP):</b>	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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