

SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	RIDOMIL® GOLD 480 EC Systemic Fungicide
Other Names:	Product code: A9408J
Recommended Use:	Fungicide for the control of <i>Phytophthora</i> heart rot and root rot of pineapples.
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:	R22 Harmful if swallowed R41 Risk of serious damage to eyes R43 May cause sensitisation by skin contact
Safety Phrases:	—

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

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

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (% w/v)
Metalaxyl-M	70630-17-0	48
Nonylphenol polyglycol ether	9016-45-9	10 - <30
alkylbenzene sulphonate	26264-06-2	<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 get to a doctor or hospital quickly. Phone 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. There is no specific antidote available. 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>When fighting a major fire wear self-contained breathing apparatus and protective equipment.</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:	<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 further leakage. (4) Dam and absorb spill with an absorbent material (e.g. sand, soil, diatomaceous earth or vermiculite). (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 L of product bury in a secure landfill site. • For quantities greater than 50 L 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>Harmful if swallowed. Will damage the eyes. Will irritate the nose, throat and skin. Repeated exposure may cause allergic disorders. Avoid contact with the eyes and skin. DO NOT inhale vapour. When opening the container and preparing the dilute solution, wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist, • a washable hat, • elbow-length PVC gloves, and • goggles. <p>When using the prepared solution, wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist, • a washable hat, and • elbow-length PVC gloves. <p>If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, goggles and contaminated clothing</p>
Conditions for Safe Storage:	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

	<i>Component</i>	<i>Exposure limit</i>	<i>Value type</i>
National Exposure Standards:	No standard allocated		
Syngenta Exposure Standards:	Metalaxyl-M	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>Harmful if swallowed. Will damage the eyes. Will irritate the nose, throat and skin. Repeated exposure may cause allergic disorders. Avoid contact with the eyes and skin. DO NOT inhale vapour. When opening the container and preparing the dilute solution, wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist, • a washable hat, • elbow-length PVC gloves, and • goggles. <p>When using the prepared solution, wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist, • a washable hat, and • elbow-length PVC gloves. <p>If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, goggles and contaminated clothing</p>
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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	light brown to dark brown liquid	Boiling Point/Range:	Not available
Odour:	Lacquer like	Freezing/Melting Point:	Not available
pH:	3 - 7 (1% w/v water)	Solubility:	Miscible in water
Vapour Pressure:	Not available	Specific Gravity or Density:	1.040 g/cm ³ at 20°C
Vapour Density:	Not available		

Flash Point:	83 °C at 1,013.25 hPa DIN 51758	Explosive Properties:	Not explosive
Upper and Lower Flammable (Explosive) Limits in Air:	Not highly flammable	Oxidising Properties:	Not oxidising
Ignition Temperature:	395°C	Combustibility:	Combustible C1
		Corrosiveness:	Not 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:	HARMFUL Tests on rats indicate this product harmful following single doses of undiluted product. (LD ₅₀ > 1000, < 2000 mg/kg)
	Dermal toxicity:	LOW TOXICITY Tests on rabbits indicate this product has a low toxicity following skin contact with undiluted product. (LD ₅₀ > 4000 mg/kg)
	Inhalation:	LOW TOXICITY Tests on rats indicate this product is not harmful due to inhalation of active ingredient. (LC ₅₀ metalaxyl-M >2.29 mg/L)
	Skin irritation:	NON IRRITANT
	Eye irritation:	SEVERE IRRITANT
	Sensitisation:	SENSITISER
Chronic:	Metalaxyl-M , 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

Ecotoxicity:	<i>Toxicity to fish:</i>	Practically non-toxic to fish <i>Lepomis macrochirus</i> (bluegill): LC ₅₀ >100 mg/L, 96 h (derived from study results with metalaxyl-M)
	<i>Toxicity to daphnia and other aquatic invertebrates:</i>	Practically non-toxic to aquatic invertebrates <i>Daphnia magna</i> (Water flea): EC ₅₀ >100 mg/L, 48 h
	<i>Toxicity to algae:</i>	Practically non-toxic to algae <i>Selenastrum capricornutum</i> (green algae): E _r C ₅₀ = 83 mg/L, 72 h
	<i>Toxicity to soil dwelling organisms:</i>	Practically non-toxic to earthworms <i>Eisenia foetida</i> (earthworm): LC ₅₀ >830 mg/kg, 14 d
	<i>Bees:</i>	Non-toxic to bees
Persistence and Degradability:	Metalaxyl-M is not persistent in water and soil	
Mobility	Metalaxyl-M has a range from low to very high mobility in soil depending on soil type.	
Environmental Fate (Exposure):	Incorporated into organic molecules	
Bioaccumulative Potential:	Metalaxyl-M has low potential for bioaccumulation	

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods and Containers:	Triple rinsing or preferably pressure rinsing containers with water. Add the rinsings to the spray 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.
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:	None allocated	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	None allocated	Packing Group:	None allocated
Class:	None allocated	Marine Pollutant:	No

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

Section 15: REGULATORY INFORMATION

APVMA Product Number:	50267
Poisons Schedule (SUSDP):	6

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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