

SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	RIDOMIL® GOLD 480 SL Systemic Fungicide
Other Names:	Product code: A13947A
Recommended Use:	Controls Heart Rot and Root Rot caused by Phytophthora in Pineapples, Pink Rot in Potatoes and Blue Mould in Tobacco Seedbeds
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:	R20 Harmful by inhalation R22 Harmful if swallowed R36 Irritating to eyes
Safety Phrases:	—

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

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

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (% w/v)
Metalaxyl-m	70630-17-0	48
alkylbenzene sulphonate	68584-22-5	<10
tallow fatty amine polyethylene oxide	61791-26-2	<10
Other ingredients determined not to be hazardous	68937-83-7	to 100

Section 4: FIRST AID MEASURES

Description of Necessary First Aid Measures:	<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. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician or Poison Control Centre immediately.</p>
Poisoning Symptoms:	Poisoning symptoms in laboratory animals were non-specific
Medical Advice:	There is no specific antidote available. Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

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

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	In case of spillage it is important to take all steps necessary to <ul style="list-style-type: none">• Avoid eye and skin contact• Avoid contamination of waterways
Methods and Materials for Containment and Clean Up:	Procedure for spill <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 (eg sand or soil)(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 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

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Harmful if swallowed. May irritate the skin. May irritate the nose and throat. Will irritate the eyes. Avoid contact with eyes and skin. DO NOT inhale spray mist. When opening the container and preparing and using the spray wear: <ul style="list-style-type: none">• cotton overalls buttoned to the neck and wrist (or equivalent clothing)• elbow-length chemical resistant gloves• face shield or goggles If applying by hand, wear <ul style="list-style-type: none">• cotton overalls, over normal clothing, buttoned to the neck and wrist If product in eyes, wash it out immediately in water. Wash hands after use. After each days use wash gloves, goggles or face shield and contaminated clothing.
Conditions for Safe Storage:	Store in the closed, original container in a 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:	Propane-1,2-diol (particulates only)	10 mg/m ³	TWA
	Propane-1,2-diol (particulates and vapour)	474 mg/m ³ 150 ppm	TWA
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. May irritate the skin. May irritate the nose and throat. Will irritate the eyes. Avoid contact with eyes and skin. DO NOT inhale spray mist. When opening the container and preparing and using the spray wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist (or equivalent clothing) • elbow-length chemical resistant gloves • face shield or goggles <p>If applying by hand, wear</p> <ul style="list-style-type: none"> • cotton overalls, over normal clothing, buttoned to the neck and wrist <p>If product in eyes, wash it out immediately in water. Wash hands after use. After each days use wash gloves, goggles or face shield and contaminated clothing.</p>		

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow-orange liquid	Boiling Point/Range:	Not Available
Odour:	Like ketone/sweetish	Freezing/Melting Point:	Not Available
pH:	6 - 10 (1% w/v water)	Solubility in water:	Miscible
Vapour Pressure:	Not available	Specific Gravity or Density:	1.06 g/cm ³ at 20
Vapour Density:	Not available		

Flash Point:	80°C at 767 mmHg	Explosive Properties:	Not explosive
Upper and Lower Flammable (Explosive) Limits in Air:	Not flammable in terms of flash point	Oxidising Properties:	Not oxidising
Ignition Temperature:	385 +/- 10°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 polymerisation does not occur.

Section 11: TOXICOLOGICAL INFORMATION

Health Effects from Likely Routes of Exposure:		
Acute:	Oral toxicity:	HARMFUL Tests on rats indicate this product is harmful following single doses of undiluted product. (LD ₅₀ female Rat = 550 mg/kg)
	Dermal toxicity:	LOW TOXICITY Tests on rabbits indicate this product has a low toxicity following skin contact with 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, however the product is considered irritating to the respiratory system LC ₅₀ (4h) = >5.58 mg/L air
	Skin irritation:	SLIGHT IRRITANT
	Eye irritation:	MODERATE IRRITANT
	Sensitisation:	NOT A 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>	Slightly Toxic to fish <i>Oncorhynchus mykiss</i> (Rainbow trout), LC ₅₀ = 15 mg/L , 96 h
	<i>Toxicity to daphnia and other aquatic invertebrates:</i>	Slightly toxic to aquatic invertebrates <i>Daphnia magna</i> (Water flea): EC ₅₀ = 61 mg/L, 48 h
	<i>Toxicity to algae:</i>	Slightly toxic to algae <i>Pseudokirchneriella subcapitata</i> (green algae): E _b C ₅₀ = 19 mg/L, 72 h E _r C ₅₀ = 39 mg/L, 72 h
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 rinse containers before disposal. Add rinsings to 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 deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. Do not burn empty containers or product.
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:	64812
Poisons Schedule (SUSDP):	6

Section 16: OTHER INFORMATION

Date of preparation or last revision: April 2011

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.

® Registered trademark of a Syngenta Group Company