

SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	FULLFILL® Insecticide
Other Names:	Product code: A9364J
Recommended Use:	Insecticide for the control of aphids in cotton
Company Details:	Syngenta Crop Protection Pty Limited ABN 33 002 933 717
Address:	Level 1, 2-4 Lyon Park 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:	R 36/38 Irritating to eyes and skin
Safety Phrases:	-

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE	
Chemical Identity of Pure Substance:	Pymetrozine
Synonym:	CGA215944
CAS Number:	123312-89-0

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (% w/v)
Pymetrozine	123312-89-0	50
Diatomaceous earth	61790-53-2	10 - <30
Other ingredients determined not to be hazardous	--	to 100

Section 4: FIRST AID MEASURES

Description of Necessary First Aid Measures:	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.
Ingestion:	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting.
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.
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.
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 Control Centre immediately.
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:	<i>Small fires</i> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide extinguisher. DO NOT use direct jet of water. <i>Large fires</i> Use alcohol-resistant foam or water spray. DO NOT use direct jet of water.
Hazards from Combustion Products:	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.
Special Protective Precautions and Equipment for Fire Fighters:	Wear full protective clothing and self-contained breathing apparatus. Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

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 goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves.(3) Reposition any leaking containers so as to minimise further leakage.(4) <i>For a product spill:</i> Sweep granule concentrates into a pile. <i>For a prepared spray spill:</i> Dam and absorb spill with an absorbent material (e.g. 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 kg of product bury in a secure landfill site.• For quantities greater than 50 kg 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

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Will irritate the eyes. Avoid contact with eyes and skin. When preparing spray wear elbow length PVC gloves. When opening the container, preparing the spray and using the prepared spray wear: <ul style="list-style-type: none">• cotton overalls buttoned to the neck and wrist (or equivalent clothing)• a washable hat• elbow length PVC gloves. Wash hands after use. After each day's use, wash gloves and contaminated clothing.
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:	Silica	10 mg/m ³	TWA
Syngenta Exposure Standards:	Pymetrozine	0.8 mg/m ³	TWA
Biological Limit Values:	No biological limit allocated		
Engineering Controls:	No special requirements. Product is used outdoors.		
Personal Protective Equipment:	<p>Will irritate the eyes. Avoid contact with eyes and skin. When preparing spray wear elbow length PVC gloves. When opening the container, preparing the spray and using the prepared spray wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist (or equivalent clothing) • a washable hat • elbow length PVC gloves. <p>Wash hands after use. After each day's use, wash gloves and contaminated clothing.</p>		

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	beige to brown granule	Boiling Point/Range:	>100 °C
Odour:	weak	Freezing/Melting Point:	- 5°C
pH:	7 - 11 at 1 % w/v	Solubility: in water	Dispersible
Vapour Pressure:	Not available	Specific Gravity or Density:	0.4 - 0.6 g/cm ³
Vapour Density:	Not available		

Flash point:	Does not flash	Explosive properties:	Not explosive
Upper and Lower Flammable (Explosive) Limits in Air:	Not highly flammable	Oxidising properties:	Not oxidising
Ignition Temperature:	Minimum 550°C	Combustibility:	Not applicable
		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:	LOW TOXICITY Tests on rats indicate this product has a low toxicity following single doses of undiluted product. (LD ₅₀ >5000 mg/kg)
	Dermal toxicity:	LOW TOXICITY Tests on rats indicate this product has a low toxicity following skin contact with the undiluted product. (LD ₅₀ > 5000 mg/kg)
	Inhalation:	LOW TOXICITY Tests on rats indicate this product is not harmful due to inhalation of undiluted product. (LC ₅₀ (4 h) >3.09 mg/L)
	Skin irritation:	SLIGHT IRRITANT (Rabbit)
	Eye irritation:	SLIGHT IRRITANT (Rabbit)
	Sensitisation:	NOT A SKIN SENSITISER
Chronic:	Pymetrozine technical has been extensively tested in mammals and in test-tube systems. No evidence of carcinogenic, neurotoxic, mutagenic, teratogenic or reproductive effects was obtained. Liver tumours were observed in carcinogenicity studies on mice and rats, but occurred at dose levels that interfered with normal liver function and is considered to be related to sustained regenerative cell proliferation related to cell death supported by a phenobarbital-like enzyme induction. Special studies revealed that pymetrozine technical acts as an inducer of metabolising liver enzymes in the rat and mouse. This effect had a clear threshold level and was of a type specific to rats and mice, and is not considered relevant to humans.	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	<i>Toxicity to fish:</i>	Practically non-toxic to fish <i>Salmo trutta</i> (trout): LC ₅₀ >100 mg/L, 96 h <i>Cyprinus carpio</i> (common carp): LC ₅₀ >100 mg/L, 96h
	<i>Toxicity to daphnia and other aquatic invertebrates:</i>	Practically non-toxic to Daphnia <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 = 5.6 mg/L, 72 h
	<i>Toxicity to soil dwelling organisms:</i>	Practically non-toxic to earthworms <i>Eisenia foetida</i> (earthworm): LC ₅₀ >1098 mg/kg, 14 day
	<i>Bees:</i>	Highly toxic to bees <i>Apis mellifera</i> (honey bee): LD ₅₀ oral > 1.7 µg/bee (48 h), contact > 200 µg/bee
Persistence and Degradability:	Pymetrozine is not persistent in water and soil	
Mobility	Pymetrozine has slight mobility in soil.	
Environmental Fate (Exposure):	Incorporated into organic molecules	
Bioaccumulative Potential:	Pymetrozine has low potential for bioaccumulation	

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods and Containers:	Shake empty container into spray tank. Single rinse before disposal. DO NOT dispose of undiluted chemicals on site. Puncture and bury empty containers in a local authority landfill. If no landfill is available in your area, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose, clear of waterways, 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:	55023
Poisons Schedule (SUSDP):	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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