



Infosafe No™ 3NU53 Issue Date : June 2010 ISSUED by NUFARM

Product Name **Polyram® DF Fungicide Spray**

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name Polyram® DF Fungicide Spray
Product Code 5183
Product Type Group M3 Fungicide
Company Name NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
Address 103-105 Pipe Road Laverton North
Victoria 3026 Australia
Emergency Tel. 1800 033 498 (24hr Australia)
Telephone/Fax Number Tel: +61 3 9282-1000
Fax: +61 3 9282-1001
Recommended Use For the control of fungal diseases in Apples, Pears, Grapevines, Stone fruit, Bananas, Mangoes, Poppies, Chickpeas, Lentils, Field peas, Faba beans and certain vegetable crops as per the Directions for Use table on the label.
Other Information This MSDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

2. HAZARDS IDENTIFICATION

Hazard Classification Classified as hazardous
HAZARDOUS SUBSTANCE.
NON-DANGEROUS GOODS.
Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.
Risk Phrase(s) Classified as hazardous
R43 May cause sensitization by skin contact.
Other Information Poisons Schedule S5

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Solid

Ingredients	Name	CAS	Proportion
	Metiram	9006-42-2	700 g/kg
	Other ingredients (considered non-hazardous)		Balance

4. FIRST AID MEASURES

Inhalation Remove affected person to fresh air until recovered.
If symptoms develop or persist, seek medical advice.
Ingestion Rinse mouth and then drink plenty of water.
Obtain medical advice.
Skin Wash affected areas thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
If irritation persists, seek medical advice.
Eye If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.
Seek medical advice.
First Aid Facilities If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
Advice to Doctor Treat symptomatically.
Avoid giving alcohol - may cause vomiting and shock.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Avoid strong water jets - airborne dusts may be an explosion hazard.
Water fog, foam, carbon dioxide or dry chemical.

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Hazards from Combustion	If involved in a fire, it will emit oxides of carbon, oxides of nitrogen, oxides of sulphur and possibly hydrogen sulphide.
Products	
Special Protective Equipment for fire fighters	Breathable air apparatus should be worn when fighting a fire in which Polyram DF is involved.
Hazchem Code	2X
Emergency Action in case of Fire	If exposed to fire, keep container cool by spraying with water.
Other Information	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal	Recover the product by sweeping up or vacuuming without raising dust. Collect spilled material, waste and wash water in sealable open-top type containers for disposal.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.

7. HANDLING AND STORAGE

Precautions for Safe Handling	Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers. For personal protective equipment (PPE) and hygiene advice, refer Section 8. Avoid generating dusts while handling the product and mixing.
Conditions for Safe Storage	Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight. Protect from temperatures above 30°C. Properties of the product may change if stored above this temperature for extended periods.
Other Information	Always read the label and any attached leaflet before use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	No exposure standards have been set for this product or the active ingredients.
Engineering Controls	Use in a well ventilated area only. Avoid generating and inhaling dusts.
Respiratory Protection	If dusts are present, wear a class P2 dust mask.
Personal Protective Equipment	It is good practice to wear suitable personal protective equipment (PPE). When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles. Re-entry period: Do not enter treated area until spray has dried.
Hygiene Measures	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.
Requirements Concerning Special Training	Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid
Appearance	Light brown granules
Solubility in Water	Disperses in water.
pH Value	6.9 (10g/L, 20°C)
Octanol/Water Partition Coefficient	Kow Log P is 0.3 (pH7)
Flammability	Not flammable Danger of dust explosion. May form dust clouds.



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Auto-Ignition Temperature 280°C
Other Information Minimum Ignition Energy >1.3J

10. STABILITY AND REACTIVITY

Chemical Stability Polyram DF is stable at temperatures below 30°C.
Incompatible Materials Avoid contact of the product with strong acids and bases.
Hazardous Polymerization Hazardous polymerisation is not possible.

11. TOXICOLOGICAL INFORMATION

Toxicology Information No harmful effects are expected if the precautions on the label and this MSDS are followed.
Inhalation May cause irritation to the respiratory tract.
Breathing in high concentrations of dusts or aerosols of this material may cause headache, nausea, dizziness and weakness.
Ingestion Possible symptoms of exposure include: headache, nausea, dizziness and weakness.
Consumption of alcohol increases the toxic effects.
Skin May irritate the skin.
May cause sensitisation by prolonged skin contact.
Eye May irritate the eyes.
Chronic Effects Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.
Reproductive Toxicity Data indicates no reproductive effects.
Acute Toxicity - Oral LD50 (rat) >5000 mg/kg for metiram
Acute Toxicity - Dermal LD50 (rat) >2000 mg/kg for metiram
Acute Toxicity - Inhalation LC50 (rat) (4hr) >2.71 mg/l for metiram
Eye Irritation Mild eye irritant.
Skin Irritation Mild skin irritant.
Other Information The Australian Acceptable Daily Intake (ADI) for metiram for a human is 0.02 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 5 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', December 2008).

12. ECOLOGICAL INFORMATION

Persistence / Degradability Average field half life of metiram is 2.7 days.
Known Harmful Effects on the Environment The product is a marine pollutant for sea transport.
Other Precautions Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
Environ. Protection Spray drift can cause damage, read the label for more information.
Acute Toxicity - Fish Toxic to fish. LC50 (96hr) for rainbow trout is 0.95 mg/l.
Acute Toxicity - Daphnia EC50 (48hr) is 0.11 mg/l.
Acute Toxicity - Other Organisms Birds: Not toxic to birds. LD50 for quail is >2150 mg/kg
Bees: Not toxic to bees. LD50 >80 µg/bee.

13. DISPOSAL CONSIDERATIONS

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Product Disposal	On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).
Container Disposal	Thoroughly wash out the inner and add washings to the spray tank. Dispose of washed inner and cardboard box in landfill. If no landfill is available, bury the containers below 500mm 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.

14. TRANSPORT INFORMATION

Hazchem Code	2X
Storage and Transport	Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.
UN Number (Sea Transport)	3077
IMO Class/Packing Group	Class 9; Packing Group III
IMO Marine Pollutant	Marine Pollutant
IMO Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains Metiram)

15. REGULATORY INFORMATION

Poisons Schedule	S5
Packaging & Labelling	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Hazard Category	Irritant
AICS (Australia)	All of the components in this product are listed on the Australian Inventory of Chemical Substances.

16. OTHER INFORMATION

Date of preparation or last revision of MSDS	Revised 24/06/2010	
Contact Person/Point	Normal Hours: Mr Volker Maier	Phone: +61 3 9282 1000
Revisions Highlighted	After Hours: Shift Supervisor	Phone: 1800 033 498
Other Information	The MSDS was reviewed. Minor changes were made to the information.	
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