



Infosafe No™ 3NUAQ Issue Date : July 2010 ISSUED by NUFARM

Product Name **AERO® Fungicide**

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name AERO® Fungicide
Product Code 5365
Product Type Group 11 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 early and late (Irish) blight in potatoes, early blight in capsicum, eggplant, peppers and tomatoes, downy mildew in poppies and various diseases in mangoes as specified in 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
R22 Harmful if swallowed.
R38 Irritating to skin.
Safety Phrase(s) S13 Keep away from food, drink and animal feeding stuffs.
S2 Keep out of reach of children.
S37 Wear suitable gloves.
S46 If swallowed, seek medical advice immediately and show this container or label.
Other Information Poisons Schedule S5

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Solid

Ingredients	Name	CAS	Proportion
	Metiram	9006-42-2	550 g/kg
	Pyraclostrobin	175013-18-0	50 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.
Do not give anything by mouth to a semi-conscious or unconscious person.
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.

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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 Water fog, foam, carbon dioxide or dry chemical.

Hazards from Combustion Avoid strong water jets - airborne dusts may form a flammable dust cloud.

May emit hazardous smoke and fumes if involved in fires or exposed to extreme heat.

Products

Special Protective Equipment for fire fighters Breathable air apparatus should be worn when fighting a fire in which this product is involved.

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. On-site disposal of concentrate is not acceptable.

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. Avoid generating dusts while handling the product and mixing.

Conditions for Safe Storage Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.

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 established for this product by Worksafe Australia, however, the TWA exposure standard for dusts not otherwise specified is 10 mg/m³.

Engineering Controls Use in a well ventilated area only. Avoid generating and inhaling dusts.

Respiratory Protection If dusts are present, wear a class P1 dust mask.

Personal Protective Equipment 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 goggles.

Hygiene Measures Re-entry period: Do not enter treated area until spray has dried. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

Requirements Concerning Special Training After each day's use, wash contaminated clothing and safety equipment. 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 Brown granules

Odour Aromatic odour

Solubility in Water Disperses in water.

pH Value 4.7 (1% suspension in water)

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Vapour Pressure	<0.01 mPa (metiram @ 20°C); 2.6 x 10 ⁻⁵ mPa (pyraclostrobin @ 20°C)
Octanol/Water Partition Coefficient	Kow Log P is 0.3 (metiram @ pH7); 3.99 (pyraclostrobin)
Flammability	Dust may form flammable dust cloud.
Auto-Ignition Temperature	199°C

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
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.
Skin	Consumption of alcohol increases the toxic effects. May irritate the skin.
Eye	May irritate the eyes.
Chronic Effects	Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.
Acute Toxicity - Oral	LD50 (rat) >500 - <2000 mg/kg for a similar formulation
Acute Toxicity - Dermal	LD50 (rat) >2000 mg/kg for a similar formulation
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >5.6 mg/l for a similar formulation
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). ADI for pyraclostrobin is 0.03 mg/kg/day, NOEL 3 mg/kg/day.

12. ECOLOGICAL INFORMATION

Persistence / Degradability	Not readily biodegradable.
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 0.149 mg/l. The above data is for the formulated product.
Acute Toxicity - Algae	EC50 (72hr) for Pseudokirchneriella subcapitata is 0.25 mg/l for a similar formulation.
Acute Toxicity - Other Organisms	Not toxic to birds. Not toxic to bees.



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13. DISPOSAL CONSIDERATIONS

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

Storage and Transport Considered non dangerous for road and rail transport (in packaging) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.
For bulk shipments as Class 9, use UN 3077, HazChem code 2Z.

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 and Pyraclostrobin)

15. REGULATORY INFORMATION

Poisons Schedule S5

Packaging & Labelling CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Hazard Category Harmful, 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 01/07/2010

Contact Person/Point Normal Hours: Mr Volker Maier Phone: +61 3 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498

Revisions Highlighted The MSDS was reviewed. Changes made to sections:
1 - Product type and Recommended Use.

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...End Of MSDS...

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