



Infosafe No™ 3NUAQ

Issue Date :May 2009

ISSUED by NUFARM

CS: 1.4.21

Product Name **AERO® Fungicide**

Classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name</b>	AERO® Fungicide
<b>Product Code</b>	5365
<b>Product Type</b>	Group K Y Fungicide
<b>Company Name</b>	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
<b>Address</b>	103-105 Pipe Road Laverton North Victoria 3026 Australia
<b>Emergency Tel.</b>	1800 033 498 (24hr Australia)
<b>Telephone/Fax Number</b>	Tel: +61 3 9282-1000 Fax: +61 3 9282-1001
<b>Recommended Use</b>	For the control of early and late (Irish) blight in potatoes, as specified in the Directions for Use table on the label.
<b>Other Information</b>	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

<b>Hazard Classification</b>	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.
<b>Risk Phrase(s)</b>	Classified as hazardous R22 Harmful if swallowed. R38 Irritating to skin.
<b>Safety Phrase(s)</b>	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.
<b>Other Information</b>	Poisons Schedule S5

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Chemical Characterization</b>	Solid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Metiram	9006-42-2	550 g/kg
	Pyraclostrobin	175013-18-0	50 g/kg
	Other ingredients (considered non-hazardous)		Balance

## 4. FIRST AID MEASURES

<b>Inhalation</b>	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
<b>Ingestion</b>	Rinse mouth and then drink plenty of water. Do not give anything by mouth to a semi-conscious or unconscious person. Obtain medical advice.
<b>Skin</b>	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If irritation persists, seek medical advice.
<b>Eye</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.
<b>First Aid Facilities</b>	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.



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**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/m<sup>3</sup>.  
**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. 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** NSW regulations require that people who use pesticides in their job or business must 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)  
**Vapour Pressure** <0.01 mPa (metiram @ 20°C);  
2.6 x 10<sup>-5</sup> mPa (pyraclostrobin @ 20°C)



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**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. Consumption of alcohol increases the toxic effects.

**Skin** 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.

## 13. DISPOSAL CONSIDERATIONS



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<b>Product Disposal</b>	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®).
<b>Container Disposal</b>	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

<b>Storage and Transport</b>	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.
<b>UN Number (Sea Transport)</b>	3077
<b>IMO Class/Packing Group</b>	Class 9; Packing Group III
<b>IMO Marine Pollutant</b>	Marine pollutant.
<b>IMO Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains Metiram and Pyraclostrobin)

## 15. REGULATORY INFORMATION

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

## 16. OTHER INFORMATION

<b>Date of preparation or last revision of MSDS</b>	Revised 27/05/2009
<b>Contact Person/Point</b>	Normal Hours: Mr Volker Maier Phone: +61 3 9282 1000 After Hours: Shift Supervisor Phone: 1800 033 498
<b>Revisions Highlighted</b>	The MSDS was reviewed. Changes made to sections: 2 - Risk phrases; 5 - other information;
<b>Other Information</b>	© Registered trademark of BASF. ...End Of MSDS...

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