



Material Safety Data Sheet

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Infosafe No. 3NUIY Issue Date: March 2004 ISSUED by NUFARM

Product Name: MICROTHIOL DISPERSS

Not classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name MICROTHIOL DISPERSS
Product Code 7885
Product Use For the control of certain fungal diseases in grapevines, pome and stone fruit, some vegetables and ornamentals; and for control of mites in grapevines, citrus, some vegetables and ornamentals; and white louse scale in citrus.
Company Name NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
Address 103-105 Pipe Road Laverton North
Victoria 3026 Australia
Emergency Tel. 24hr 1800 033 498
Telephone/Telex Number Tel: (03) 9282-1000 Fax: (03) 9282-1001
Product Type Group Y Fungicide
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. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Solid

Ingredients	Name	CAS	Proportion
	Other non hazardous ingredients		to 100%
	Sulphur	7704-34-9	800 g/Kg

3. HAZARDS IDENTIFICATION

Other Information Poisons Schedule Not Scheduled

4. FIRST AID MEASURES

Inhalation Remove affected person to fresh air until recovered.
If symptoms persist, seek medical advice immediately.
If breathing is difficult, oxygen may be given by a trained person.

Ingestion Give a glass of water.

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 Poisons Information Centre on 13 11 26 (Australia).

Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Media Water fog, foam, carbon dioxide or dry chemical.

Hazardous Combustion Products If involved in a major fire, could evolve oxides of sulphur or carbon.

Protective Equipment Breathable air apparatus should be worn when fighting a fire in which Microthiol Disperss is involved.

Other Information Prevent fire water from entering drains or water bodies.

6. ACCIDENTAL RELEASE MEASURES



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Spills & Disposal Collect spilled material and waste in sealable open-top type containers for disposal.

Dispose of at a landfill in accordance with local regulations.

Environmental Precautions Prevent from entering drains, waterways or sewers.

Clean-up Methods - Large Spillages Place damaged containers in recovery bins (if available) and return to manufacturer.

7. HANDLING AND STORAGE

Handling Avoid generating dusts while handling the product and mixing.

Storage Store in the closed, original container in a dry, well ventilated area out of direct sunlight.

Do not store near oxidisers.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits No biological exposure limit allocated.
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.

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

Eye Protection Wear basic eye protection.

Personal Protective Equipment It is good practice to wear suitable personal protective equipment (PPE).

Eng. Controls Natural ventilation is sufficient when handling concentrate and preparing spray solution.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Brown granule or powder

Melting Point 113°C

Solubility in Water Disperses in water. Not soluble.

Boiling Point 444°C

Specific Gravity (H₂O=1) N/A

Flash Point 207°C for pure sulphur

Flammability Combustible

The product was tested in accordance to the 'Australian Code for the Transport of Dangerous Goods by Road and Rail' section 2.3.4.2.2. 'Test methods for flammable solids (Class 4.1)'.
The material was found to be non-flammable under the conditions of the tests.

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Hazardous Polymerization Hazardous polymerisation is not possible.

Materials to Avoid Corrosive to steel when wet.

Hazardous Reaction Keep away from strong oxidising agents.

11. TOXICOLOGICAL INFORMATION

Toxicology Information No harmful effects are expected if the precautions on the label and this MSDS are followed.



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Inhalation	May cause irritation to mucous membranes.
Ingestion	Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury.
Skin	May irritate the skin. Avoid formation of dusts. Sulphur dust on (sweaty) skin can become irritating by formation of acids.
Eye	The concentrate may cause irritation of the eyes. May cause some discomfort if contact is prolonged.
Chronic Effects	Regular exposure may result in chronic bronchitis.
Acute Toxicity - Oral	LD50 (rat) >5000 mg/kg for sulphur
Acute Toxicity - Dermal	LD50 (rat) >2000 mg/kg for sulphur
Skin Irritation	Mild skin irritant.

12. ECOLOGICAL INFORMATION

Other Precautions	Do not spray in high winds.
Persistence / Degradability	Loss from soil is principally by microbial degradation.
Acute Toxicity - Fish	Not toxic to fish.
Acute Toxicity - Daphnia	LC50 (48 hr) for sulphur is >1000 mg/l.
Acute Toxicity - Other Organisms	Not toxic to bees.

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 (ChemCollect).
Container Disposal	Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

	It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilisers during transport.	
U.N. Number	None Allocated	
DG Class	None Allocated	
Hazchem Code	None Allocated	
Packing Group	None Allocated	
Storage and Transport	Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.	

15. REGULATORY INFORMATION

Poisons Schedule	Not Scheduled
Packaging & Labelling	READ SAFETY DIRECTIONS BEFORE OPENING OR USING
AICS (Australia)	All of the components in this product are listed on the Australian Inventory of Chemical Substances.

16. OTHER INFORMATION

Contact Person/Point	Normal Hours: Mr Volker Maier After Hours: Shift Supervisor	Phone: (03) 9282 1000 Phone: 1800 033 498
Revisions Highlighted	The MSDS was reviewed. Minor changes were made to the information. The MSDS is now issued in a 16 header format.	



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