

Infosafe No™ 3NU1Y Issue Date : August 2016 ISSUED by NUFARM

 Product Name **MICROTHIOL DISPERSS**

Classified as hazardous

1. Identification

GHS Product Identifier MICROTHIOL DISPERSS
Product Code 7885
Product Type Group M2 Fungicide
Company Name NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
Address 103-105 Pipe Road Laverton North
 Victoria 3026 Australia
Telephone/Fax Number Tel: +61 3 9282-1000
 Fax: +61 3 9282-1001
Emergency phone number 1800 033 498 (24hr Australia)
Recommended use of the chemical and restrictions on 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 as per the Directions for Use table on the label.
Other Information This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.

2. Hazard Identification

GHS classification of the substance/mixture SC-2 Skin Corrosion/Irritation: Category 2
Signal Word (s) WARNING
Hazard Statement (s) H315 Causes skin irritation.
General Precautionary Statement (s) P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P103 Read label before use.
Pictogram (s) Exclamation mark,
 The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



Precautionary statement – Prevention P264 Wash hands and exposed skin thoroughly after handling.
 P280 Wear protective gloves, clothing, eye and face protection.
Precautionary statement – Response P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
Other Information Poisons Schedule Not Scheduled

3. Composition/information on ingredients

Chemical Characterization Solid
Ingredients

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

4. First-aid measures

Inhalation Remove affected person to fresh air until recovered. If symptoms persist, seek medical advice immediately.
Ingestion Give a glass of water.

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Skin	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If irritation persists, seek medical advice.
Eye contact	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.

5. Fire-fighting measures

Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical. Avoid strong water jets - airborne dusts may form a flammable dust cloud.
Hazards from Combustion Products	If involved in a major fire, could evolve oxides of sulphur or carbon.
Special Protective Equipment for fire fighters	Breathable air apparatus should be worn when fighting a fire in which Microthiol Disperss is involved.
Specific hazards arising from the chemical	Accumulation of dusts and fines associated with industrial processing may pose a dust explosion hazard.
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 and waste in sealable open-top type containers for disposal. Dispose of at a landfill in accordance with local regulations.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Clean-up Methods - Large Spillages	Place damaged containers in recovery bins (if available) and return to manufacturer.
Environmental Precautions	Prevent from entering drains, waterways or sewers.

7. Handling and storage

Precautions for Safe Handling	Avoid generating dusts while handling the product and mixing.
Conditions for safe storage, including any incompatibilities	Store in the closed, original container in a dry, well ventilated area out of direct sunlight. Do not store near oxidisers. Keep bag sealed to prevent deterioration of product.
Other Information	Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

Occupational exposure limit values	No biological exposure limit allocated. No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts not otherwise specified is 10 mg/m ³ .
Appropriate engineering controls	Natural ventilation is sufficient when handling concentrate and preparing spray solution.
Respiratory Protection	If dusts are present, wear a 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.
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.

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9. Physical and chemical properties

Form	Solid
Appearance	Brown granule or powder
Melting Point	113°C
Boiling Point	444°C
Solubility in Water	Disperses in water. Not soluble.
Specific Gravity	N/A
pH	8-11 when dispersed in distilled water at 1%.
Flash Point	207°C for pure sulphur
Flammability	Combustible solid. The product was tested in accordance to the 'Australian Code for the Transport of Dangerous Goods by Road and Rail' section 2.4.2.2.2 of 7th edition. '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

Chemical Stability	Stable under normal conditions.
Incompatible Materials	Corrosive to steel when wet.
Possibility of hazardous reactions	Keep away from strong oxidising agents.
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.
Acute Toxicity - Oral	LD50 (rat) >2000 mg/kg for sulphur
Acute Toxicity - Dermal	LD50 (rat) >2000 mg/kg for sulphur
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >1.35 mg/l
Ingestion	Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury.
Inhalation	May cause irritation to mucous membranes.
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.
Serious eye damage/irritation	Serious eye irritant.
Skin corrosion/irritation	The product is a skin irritant.

12. Ecological information

Persistence and degradability	Loss from soil is principally by microbial degradation.
Other Precautions	Do not spray in high winds. Do not contaminate streams, rivers or waterways with the chemical or used containers.
Acute Toxicity - Fish	Not toxic to fish.

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Acute Toxicity - Daphnia	LC50 (48hr) for sulphur is >1000 mg/l.
Acute Toxicity - Algae	EC50 for (72hrs) is 586 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 (ChemClear®).
Container Disposal	Do not use this container for any other purpose. Shake bag contents into spray tank until the bag is empty. 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

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
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

Regulatory Information	Australia: WHS regulations (2011) - Schedule 11: classification not listed.
Poisons Schedule	Not Scheduled
Packaging & Labelling	READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Other Information	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 51784.

16. Other Information

Date of preparation or last revision of SDS	Revised 19/08/2016. This MSDS replaces document dated February 2014.
Contact Person/Point	Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000 After Hours: Shift Supervisor Phone: 1800 033 498
Revisions Highlighted	The SDS was reviewed to include GHS requirements.
	...End Of MSDS...

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