

Material Safety Data Sheet

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Infosafe No.	3NU5D	Issue Date : March 2006	ISSUED by CRPCARE
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Product Name : **Sulfostar® DF Wettable Sulphur Fungicide Spray**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Sulfostar® DF Wettable Sulphur Fungicide Spray
Product Code	5186
Product Type	Group Y Fungicide
Company Name	Crop Care Australasia Pty Ltd (ABN 53 061 362 347)
Address	Unit 15/16 Metroplex Avenue Murarrie Queensland 4172 Australia
Emergency Tel.	1800 033 498
Telephone/Fax Number	Tel: (07) 3909 2000 Fax: (07) 3909 2010
Recommended Use	For the control of certain fungal diseases and mites in grapevines and other 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	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Hazard classification according to the criteria of NOHSC. Dangerous goods classification according to the Australia Dangerous Goods Code.
Other Information	Poisons Schedule : Not Scheduled

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization	Solid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Other non hazardous ingredients		10-30 %
	Sulphur	7704-34-9	800 g/Kg

4. FIRST AID MEASURES

Inhalation	Remove affected person to fresh air until recovered. If symptoms persist, seek medical advice immediately.
Ingestion	Rinse mouth and then drink plenty 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 if irritation develops or persists.
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

Suitable Extinguishing Media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	Avoid strong water jets - airborne dusts may form a flammable dust cloud. If involved in a major fire, will evolve oxides of sulphur or carbon.
Speical Protective Equipment for fire fighters	Breathable air apparatus must be worn when fighting a fire in which this product is involved.

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Product Name : **Sulfostar® DF Wettable Sulphur Fungicide Spray**

Hazchem Code None Allocated
Other Information Prevent fire water from entering drains or water bodies.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal Collect spilled material and waste in sealable open-top type containers for disposal.
Recover the product by sweeping up or vacuuming without raising dust.
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.
Do NOT contaminate dams, rivers or streams, or any other water bodies with chemical or used containers.

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

National Exposure Standards 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.

Engineering Controls Handle in well ventilated areas, generally natural ventilation is adequate.

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).
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.

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. By 1st September, 2005 all users must have received such training.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Solid

Appearance Grey-brown granules

Odour Slight odour

Melting Point 115°C

Solubility in Water Disperses in water. Not soluble.

Flash Point 207°C for pure sulphur

Flammability Not flammable
Danger of dust explosion.
May form dust clouds.

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

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Product Name : **Sulfostar® DF Wettable Sulphur Fungicide Spray**

Incompatible Materials	Corrosive to steel when wet.
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.
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) >2,200 mg/kg for the formulated product
Acute Toxicity - Dermal	LD50 (rat) >2,000 mg/kg for the formulated product
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >5.4 mg/l for the formulated product
Eye Irritation	Mild eye irritant.
Skin Irritation	Mild skin irritant.

12. ECOLOGICAL INFORMATION

Persistence / Degradability	Loss from soil is principally by microbial degradation.
Other Precautions	Do not spray in high winds. 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	Not toxic to fish. LC50 (96 hr) for rainbow trout is >100 mg/l for the formulated product
Acute Toxicity - Daphnia	LC50 (48 hr) for the formulated product is >100 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	Do not use this container for any other purpose. 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 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

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Product Name : **Sulfostar® DF Wettable Sulphur Fungicide Spray**

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	Phone: (03) 9282 1000
	After Hours: Shift Supervisor	Phone: 1800 033 498
Revisions Highlighted	The MSDS was reviewed. Minor changes were made to the information.	
Other Information	© Registered Trademark of BASF ...End Of MSDS...	