



Infosafe No™ 3NUJX Issue Date :December 2009 ISSUED by NUFARM CS: 1.4.21

Product Name **ACROBAT SC® Fungicide**

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name ACROBAT SC® Fungicide
Product Code 5178
Product Type Group X 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 various diseases of cucurbits, grapevines, head lettuce, onions, oilseed poppies and potatoes, when mixed with mancozeb or Polyram® DF Fungicide Spray, protectant fungicides, 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 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.
Safety Phrase(s) S13 Keep away from food, drink and animal feeding stuffs.
S2 Keep out of reach of children.
S36 Wear suitable protective clothing.
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 Liquid

Ingredients	Name	CAS	Proportion
	Dimethomorph	110488-70-5	500 g/L
	Other ingredients (considered non-hazardous)		30-60 %

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.
Skin Wash affected areas thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
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 the Poisons Information Centre (Australia) on 13 11 26.
Advice to Doctor Treat symptomatically.

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5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	If involved in a fire, it will emit oxides of carbon, oxides of nitrogen and possibly hydrogen chloride or sulfur oxides.
Special Protective Equipment for fire fighters	Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.
Other Information	STOP 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. On-site disposal of concentrate is not acceptable.
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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.
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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	No exposure standard has been established for this product.
Engineering Controls	Handle in well ventilated areas, generally natural ventilation is adequate.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Appearance	White Liquid
Solubility in Water	Disperses in water.
Vapour Pressure	1 x 10 ⁻³ mPa @ 20°C for dimethomorph
Octanol/Water Partition Coefficient	Kow Log P is 2.69 for dimethomorph
Flammability	Non combustible material.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Excessive heat and fire.
Hazardous Reactions	Keep away from strong oxidising agents.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. TOXICOLOGICAL INFORMATION

Inhalation	Not a likely route of exposure when handling the concentrate.
Ingestion	Not a likely route of exposure. Low toxicity. However, swallowing large amounts of concentrate may cause nausea and

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Skin	vomiting. May irritate the skin.
Eye	May irritate the eyes.
Chronic Effects	Chronic exposure can cause damage to the liver.
Mutagenicity	Data indicates no mutagenic effects.
Carcinogenicity	The weight of the evidence is that dimethomorph is not carcinogenic.
Acute Toxicity - Oral	LD50 (rat, male) 4300 mg/kg for dimethomorph LD50 (rat, female) 3500 mg/kg for dimethomorph
Acute Toxicity - Dermal	LD50 (rat) >5000 mg/kg for dimethomorph
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >4.2 mg/l for dimethomorph (maximum attainable concentration).
Eye Irritation	Not an eye irritant.
Skin Irritation	Not a skin irritant.
Other Information	The Australian Acceptable Daily Intake (ADI) for dimethomorph for a human is 0.06 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 6 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).

12. ECOLOGICAL INFORMATION

Persistence / Degradability	Average field half life of dimethomorph is 57 days.
Mobility	Moderately mobile (Koc is 348).
Other Precautions	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
Environ. Protection	Spray drift should be avoided, read the label for more information.
Acute Toxicity - Fish	The following is data for the active ingredient, dimethomorph. LC50 (96hr) for bluegill sunfish is >5 mg/l. LC50 (96hr) for rainbow trout is 3.4 mg/l.
Acute Toxicity - Other Organisms	The following data is for the active ingredient, dimethomorph. Birds: Not toxic to birds. LD50 for mallard ducks is >2000 mg/kg LD50 for bobwhite quail is >2000 mg/kg Bees: Not toxic to bees. LD50 >100 µg/bee.

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. Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in local authority 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 transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Exempt from classification as a Dangerous Good in packs less than 3,000 kg or L as per ADG7, SP no. AU01.
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UN Number (Sea Transport) 3082 For bulk shipments as Class 9, use UN 3082, HazChem code 2Z.
IMO Class/Packing Group Class 9
IMO Marine Pollutant Marine Pollutant
IMO Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains dimethomorph)

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
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 23/11/2009
Contact Normal Hours: Mr Volker Maier Phone: +61 3 9282 1000
Person/Point After Hours: Shift Supervisor Phone: 1800 033 498
Revisions First Issue
Highlighted
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