

Material Safety Data Sheet

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Infosafe No. 3NU3Z Issue Date : July 2004 ISSUED by CRPCARE

Product Name : **REDYE Liquid Marking Dye**

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name REDYE Liquid Marking Dye
Product Code 3366
Product Use A marking additive for addition to insecticides, herbicides and fungicides.
Company Name Crop Care Australasia Pty Ltd (ABN 53 061 362 347)
Address 77 Tingira Street Pinkenba
Queensland 4008 Australia
Emergency Tel. 1800 033 498
Telephone/Telex Number Tel: (07) 3867 9100 Fax: (07) 3867 9110
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 Liquid

Ingredients	Name	CAS	Proportion
	Rhodamine B	81-88-9	150 g/L
	Other non hazardous ingredients		>60%

3. HAZARDS IDENTIFICATION

Harmful if swallowed.
Risk of serious damage to eyes.
Other Information Poisons Schedule : Not Scheduled

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.
If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

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.

First Aid Facilities If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26 (Australia).

Advice to Doctor Treat symptomatically.
Gastric lavage with medicinal charcoal in water is recommended.

5. FIRE FIGHTING MEASURES

Extinguishing Media Water fog, foam, carbon dioxide or dry chemical.
Avoid using large volumes of water which would spread the product.

Hazardous Combustion Products If involved in a fire, it will emit oxides of carbon, oxides of nitrogen and possibly hydrogen chloride.

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Emergency Action in case of Fire If exposed to fire, keep container cool by spraying with water.

Protective Equipment Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite).
Collect spilled material and waste 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.

Environmental Precautions Use earthen bunds or absorbent bunding to prevent spreading of spillage.

Prevent from entering drains, waterways or sewers.

Clean-up Methods - Large Spillages If large liquid spills occur, attempt to recover as much spilt material from sumps and bunded areas before absorbing remaining material into vermiculite or other absorbent.

7. HANDLING AND STORAGE

Handling Redye is coloured and will strongly stain skin and clothing. If skin has been exposed to the product, thorough washing with soap and water will remove any excess product. The colour on the skin is not deep and will naturally disappear over a few days.

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

Exposure Limits NOHSC has set the following exposure standard for diethylene glycol : TLV (TWA) 100 mg/m³, STEL -.

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 goggles.

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

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 Deep red liquid.

Melting Point <0°C

Solubility in Water Soluble in water.

Boiling Point >240°C

Specific Gravity (H₂O=1) 0.945

Vapour Pressure 0.0013 kPa @ 20°C (diethylene glycol)

Volatile Component None

Partition co-efficient, n-octanol/water Kow Log P is 1.95 for Rhodamine B

Flash Point >96°C

Flammability Combustible

10. STABILITY AND REACTIVITY

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Hazardous Polymerization Hazardous polymerisation is not possible.

Hazardous Decomposition Products Avoid contact with aluminium, alumin alloys, copper rich alloys and neoprene.

Hazardous Reaction Violent reactions between Redye and oxidising agents are possible.

11. TOXICOLOGICAL INFORMATION

Inhalation May cause irritation to mucous membranes and respiratory tract.
The components of the product are of low volatility and no adverse effects are expected from handling the concentrate.
Breathing vapour can result in headaches and nausea.

Ingestion Possible symptoms of exposure include: nausea, vomiting and central nervous system depression.

Skin Prolonged contact with the concentrate may cause irritation.
Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.
This product will stain the skin which may persist for some time.

Eye Prolonged contact with the concentrate may cause damage to the eye.

Carcinogenicity Rhodamine B has been assessed in animals and some data exists that Rhodamine B is a substance which causes some concern for humans owing to possible carcinogenic effects from long term exposure, but in respect of which the available information is not adequate for making a satisfactory assessment.
Rhodamine B was recently included on the US EPA list 4A: Minimal Risk Ingredients. Minimal Risk (List 4A) substances are recognised as safe for use in all pesticide products subject only to good agricultural practises or good manufacturing practises.

Acute Toxicity - Oral LD50 (rat) 400 - 2000 mg/kg for Rhodamine B

Eye Irritation The product is an eye irritant.

Skin Irritation Mild skin irritant.

12. ECOLOGICAL INFORMATION

Other Precautions Do not contaminate dams, waterways or sewers with this product.

Acute Toxicity - Fish LC50 (96 hr) for fish is 10 - 100 mg/l for Rhodamine B

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.
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.
drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMuster symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.
Puncture or shred and bury containers in local authority landfill.
Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilisers during transport.

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U.N. Number None Allocated

Proper Shipping Name 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

Risk Phrase R22 Harmful if swallowed.
R41 Risk of serious damage to eyes.

Safety Phrase S13 Keep away from food, drink and animal feeding stuffs.
S2 Keep out of reach of children.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S46 If swallowed, seek medical advice immediately and show this container or label.

Poisons Schedule Not Scheduled

Hazard Category Harmful, Irritant

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.

National Legislation Rhodamine B was recently included on the US EPA list 4A: Minimal Risk Ingredients. Minimal Risk (List 4A) substances are recognised as safe for use in all pesticide products subject only to good agricultural practises or good manufacturing practises.

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 First Issue
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