



Infosafe No™ NU03Z

Issue Date : June 2008

ISSUED by NUFARM

CS: 1.4.21

Product Name **SPRAY MARKER DYE**

Classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** SPRAY MARKER DYE  
**Product Code** 3346  
**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** Liquid marking dye and foam marker colouring agent.  
**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.  
R41 Risk of serious damage to eyes.

**Safety Phrase(s)** 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.

**Other Information** Poisons Schedule : Not Scheduled

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization** Liquid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Rhodamine B	81-88-9	150 g/L
	Diethylene glycol	111-46-6	60-90 %
	Other non hazardous ingredients		0-30 %

## 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 the Poisons Information Centre (Australia) on 13 11 26.



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

## 5. FIRE FIGHTING MEASURES

**Suitable** Water fog, foam, carbon dioxide or dry chemical.  
**Extinguishing Media** Avoid using large volumes of water which would spread the product.  
**Hazards from Combustion** If involved in a fire, it will emit oxides of carbon, oxides of nitrogen and possibly traces of hydrogen chloride.  
**Products**  
**Special Protective Equipment for fire fighters** Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.  
**Emergency Action in case of Fire** If exposed to fire, keep container cool by spraying with water.

## 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.  
**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.  
**Environmental Precautions** Use earthen bunds or absorbent bunding to prevent spreading of spillage.  
Prevent from entering drains, waterways or sewers.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling** Spray marker dye 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.  
**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.  
**Other Information** Always read the label and any attached leaflet before use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards** NOHSC has set the following exposure standard for diethylene glycol : TLV (TWA) 100 mg/m<sup>3</sup>, STEL -.  
**Engineering Controls** Handle in well ventilated areas, generally natural ventilation is adequate.  
**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.  
**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** Deep red liquid.  
**Melting Point** <0°C  
**Boiling Point** >240°C  
**Solubility in Water** Soluble in water.  
**Specific Gravity** 0.945  
**Vapour Pressure** 0.0013 kPa @ 20°C (diethylene glycol)



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**Volatile Component** None  
**Octanol/Water Partition Coefficient** Kow Log P is 1.95 for Rhodamine B  
**Flash Point** >96°C  
**Flammability** Combustible

## 10. STABILITY AND REACTIVITY

**Hazardous Decomposition Products** Avoid contact with aluminium, alumin alloys, copper rich alloys and neoprene.  
**Hazardous Reactions** Violent reactions between spray marker dye and oxidising agents are possible.  
**Hazardous Polymerization** Hazardous polymerisation is not 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 has been included on US EPA List 4B. List 4B contains substances for which the US EPA has sufficient information to reasonably conclude that the current use pattern in pesticide products will not adversely affect public health or the environment.  
**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 (96hr) 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 (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. 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. If recycling, replace cap and return clean containers to recycler or designated collection point.



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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

**Transport Information** It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilisers during transport.  
**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  
**National and or International Regulatory Information** Rhodamine B has been included on US EPA List 4B. List 4B contains substances for which the US EPA has sufficient information to reasonably conclude that the current use pattern in pesticide products will not adversely affect public health or the environment.  
**Packaging & Labelling** READ SAFETY DIRECTIONS BEFORE OPENING OR USING  
**Hazard Category** Harmful, Irritant  
**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** Revised 19/06/2008  
**Contact** Normal Hours: Mr Volker Maier Phone: +61 3 9282 1000  
**Person/Point** After Hours: Shift Supervisor Phone: 1800 033 498  
**Revisions** The MSDS was reviewed. Minor changes were made to the information.  
**Highlighted** ...End Of MSDS...

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