Infosafe No™ NU03Z	Issue Date : July 2022	ISSUED by NUFARM

Product Name **SPRAY MARKER DYE**

Classified as hazardous

1. Identification

GHS Product Identifier	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
Telephone/Fax Number	Tel: +61 3 9282-1000
Emergency phone number	1800 033 498 (24hr Australia)
E-mail Address	SDSANZ@nufarm.com
Recommended use of the chemical and restrictions on use	Liquid marking dye and foam marker colouring agent.
Other Information	This Safety Data Sheet describes the properties of the intermediate 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	Acute Toxicity - Oral: Category 3 Eye Damage/Irritation: Category 1
Signal Word (s)	DANGER
Hazard Statement (s)	Harmful if swallowed. Causes serious eye damage.
Precautionary statement – General	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.
Pictogram (s)	Corrosion, Skull and crossbones, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.





Precautionary statement – Prevention	Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement – Response	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
Other Information	Poisons Schedule : Not Scheduled

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Rhodamine B	81-88-9	150 g/L
	Diethylene glycol	111-46-6	60-90 %
	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 contact	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.
Advice to Doctor	Treat symptomatically. Gastric lavage with medicinal charcoal in water is recommended.

5. Fire-fighting measures

Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical. Avoid using large volumes of water which would spread the product.
Hazards from Combustion Products	If involved in a fire, it will emit oxides of carbon, oxides of nitrogen and possibly traces of hydrogen chloride.
Special Protective Equipment for fire fighters	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.
Clean-up Methods - Large Spillages	If large liquid spills occur, attempt to recover as much spilt material from sumps and bunded areas, as possible, 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, including any incompatibilities	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

Occupational exposure limit values	Safe Work Australia has set the following exposure standard for diethylene glycol : TLV (TWA) 100 mg/m3, STEL -.
Appropriate 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
pH	3.7 - 4.0 (1% solution)
Vapour Pressure	0.0013 kPa @ 20°C (diethylene glycol)
Volatile Component	None
Partition Coefficient: n-octanol/water	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.
Possibility of hazardous reactions	Violent reactions between spray marker dye and oxidising agents are possible.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat) 400 - 2000 mg/kg for Rhodamine B
Ingestion	Possible symptoms of exposure include: nausea, vomiting and central nervous system depression.
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.
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.
Serious eye damage/irritation	The product is an eye irritant.
Skin corrosion/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.
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.
Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank.
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

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

Storage and Transport Not classified as a Dangerous Good for transport by road and rail (ADG 7), by sea (IMDG 2014) or by air (IATA).

15. Regulatory information

Regulatory Information WHS Schedule 11, item 35 (acute toxicity, category 3)

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

Other Information This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 50498.

16. Other Information

Date of preparation or last revision of SDS Revised 12/07/2017.
This SDS replaces document dated February 2016.

Contact Person/Point Normal Hours: SDS Coordinator Phone: +61 3 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498

Revisions Highlighted The SDS was reviewed. Minor changes were made to the information.

...End Of MSDS...

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