1. Identification

SPRAY MARKER DYE

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
Fax: +61 3 9282-1001
Emergency phone number: 1800 033 498 (24hr Australia)

Recommended use of the chemical and restrictions on use: Liquid marking dye and foam marker colouring agent.

2. Hazard Identification

GHS classification of the substance/mixture
Acute Toxicity – Oral: Category 3
Eye Damage/Irritation: Category 1
Hazard Statement (s)
Harmful if swallowed.
Causes serious eye damage.

General
If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.

Precautionary statement – Corrosion, Skull and crossbones,
The below pictograms are GHS Hazard symbols for workplace use only.
See SECTION 14 for Dangerous Goods information.

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.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical Characterization</th>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingredients</td>
<td>Rhodamine B</td>
<td>81-88-9</td>
<td>150 g/L</td>
</tr>
<tr>
<td></td>
<td>Other non hazardous ingredients</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Diethylene glycol</td>
<td>111-46-6</td>
<td>60-90 %</td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation
Remove affected person to fresh air until recovered. If symptoms develop or
# Safety Data Sheet

**Product Name**: SPRAY MARKER DYE

## Ingestion
Persist, seek medical advice. 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.

**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 firefighters**: 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.

**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. Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.

**Conditions for safe storage, including any incompatibilities**: 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).

**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.
Safety Data Sheet

Infosafe No™ NU03Z Issue Date : July 2017 ISSUED by NUFARM

Product Name SPRAY MARKER DYE

Classified as hazardous

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Deep red liquid</td>
</tr>
<tr>
<td>Melting Point</td>
<td>&lt;0°C</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>&gt;240°C</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.945</td>
</tr>
<tr>
<td>pH</td>
<td>3.7 - 4.0 (1% solution)</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>None</td>
</tr>
<tr>
<td>Partition Coefficient: n-octanol/water</td>
<td>Kow Log P is 1.95 for Rhodamine B</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt;96°C</td>
</tr>
<tr>
<td>Flammability</td>
<td>Combustible</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

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

Possible reactions: Violent reactions between spray marker dye and oxidising agents are possible. 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.

Skin: Prolonged contact with the concentrate may cause irritation. Prolonged contact with the concentrate may cause defatting of the skin and may result in dermatitis.

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
Product Name: SPRAY MARKER DYE

13. Disposal considerations

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®).

Do not use this container for any other purpose.

rumMUSTER 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

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

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

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

Not Scheduled

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.

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

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

16. Other Information

Revised 12/07/2017.

This SDS replaces document dated February 2016.

Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000

After Hours: Shift Supervisor Phone: 1800 033 498

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

...End Of MSDS...