

Rygel Red Marking Dye Liquid Formulation

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Supplier: Rygel Australia Pty Ltd
ACN: 106 839 007
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Telephone: (03) 9768 2803
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Emergency telephone number: National Poisons Information Centre: Dial 13 11 26.

Product name: Rygel Red Marking Dye Liquid
UN No.: None allocated
Hazchem Code: None allocated
Dangerous Goods Class: None allocated
Sub Risk Class: None allocated
Packaging Group: None allocated
Poison Schedule: None allocated
Product Use: A tank mix Red dye additive to assist in identification of areas sprayed with pesticide.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	CAS No	Conc. %
rhodamine B	81-88-9	17%
diethylene glycol	111-46-6	10-30%

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

3. HAZARDS IDENTIFICATION

This product is classified as:

Classified as hazardous according to health criteria of NOHSC Australia.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

Risk Phrases

- R22 Harmful if swallowed
R41 Risk of serious damage to eyes

Safety Phrases

- S2 Keep out of reach of children
S13 Keep away from food, drink and animal feeding stuffs.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S46 If swallowed, seek medical adv

4. FIRST AID MEASURES

- Ingestion:** Give plenty of water or milk to drink and do not induce vomiting. Seek medical assistance.
- Eye contact:** Immediately irrigate with copious quantities of water for at least 15 minutes. In all cases of eye contamination it is advisable to seek immediate medical assistance.
- Skin contact:** Wash contaminated skin with plenty of water. Remove contaminated clothing and wash before reuse. If irritation persists seek medical advice.
- Inhalation:** Remove victim from exposure. Seek medical assistance if symptoms persist.

MATERIAL SAFETY DATA SHEET

Notes to physician: Consider evacuation the stomach and the use of an absorbent such as charcoal. Test and correct for metabolic acidosis and hypocalcemia. Apply rapid and sustained diuresis when possible with the use of hypertonic mannitol. Evaluate renal status and begin hemodialysis if indicated.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water fog, dry chemical, foam, carbon dioxide, BFC. Hazards from combustion products

Combustible liquid

May burn and produce oxides of carbon, smoke and fumes.

Precautions for Fire-fighters and Special Protective Equipment

Fire-fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedure

Wash area down thoroughly with water or cover with absorbent (soil, sand, vermiculite).

Collect and seal in properly labelled drums for disposal. Wash area down effected area with excess water. Spills are slippery.

If contamination of sewers or waterways has occurred advise the local emergency services.

7. HANDLING AND STORAGE

Precautions for Safe Storage

Store in closed original container in a well ventilated place, as cool as possible. Do not store for prolonged periods in direct sunlight. Triple rinse containers before disposal and add rinsings to tank.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits

No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC Australia).

Engineering controls

Natural ventilation only is required.

Personal protection

Personal protection equipment: Wear overalls, goggles and impervious gloves. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour:	red coloured liquid
Solubility:	soluble in water
Specific Gravity (15 C):	1.12 approx.
Flashpoint:	>61°C
pH (1% aq):	7 - 9

10. STABILITY AND REACTIVITY

Avoid strong oxidising agents.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are:

Acute Effects

Ingestion: Short term exposure by ingestion is considered to be harmful, producing liver and kidney damage

Eye contact: May be an eye irritant.

Skin contact: May lead to mild irritation on repeated or prolonged exposure.

MATERIAL SAFETY DATA SHEET

Inhalation: Prolonged inhalation of mists may result in headaches, dizziness and possible nausea.
Long Term Effects: No information available for product.

Acute toxicity / Chronic toxicity

No LD50 data available for product. Based on knowledge of related constituents:

Rhodamine B

Acute oral LD50 (rat) 500 mg/kg

Acute oral LD50 (mouse) 887 mg/kg

Diethylene glycol

Acute oral LD50 (human) 1,000 mg/kg

Acute oral LD50 (rat) 12,675 mg/kg

Acute oral LD50 (mouse) 23,700 mg/kg

Carcinogenicity

Rhodamine B has been tested in mice and rats by subcutaneous injection and, in inadequate studies, by oral administration. It was carcinogenic in rats when injected subcutaneously, producing local sarcomas. Rhodamine B has been classified by the International Agency for Research on Cancer (IARC) as a group 3, not classifiable as to its carcinogenicity to humans.

12. ECOLOGICAL INFORMATION

Readily biodegradable. Do not contaminate streams, rivers or waterways with the chemical or used container.

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

13. DISPOSAL CONSIDERATIONS

Triple or, preferably, pressure rinse containers before disposal. If recycling, replace cap and return containers to recycler or designated collection point. If not recycling, break, crush, puncture and bury empty containers in local authority landfill. If not available bury the containers below 500 mm in a disposal pit specifically marked and setup for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

Refer to State/Territory Land Waste Management Authority. Dispose of material through a licensed waste contractor.

14. TRANSPORT INFORMATION

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

15. REGULATORY INFORMATION

Based on available information, classified as hazardous according to health criteria of NOHSC Australia.

Risk Phrases

R36 Irritating to eyes

Safety Phrases

S2 Keep out of reach of children

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

16. OTHER INFORMATION

All information contained in this document is as accurate as possible based on information submitted by raw material suppliers. **Rygel Australia Pty Ltd** will not be responsible for any damages that may result from reliance on the information contained herein.

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National Poisons Information Centre: Dial 13 11 26 (from anywhere in Australia).