

MATERIAL SAFETY DATA SHEET



PCT International Pty Ltd

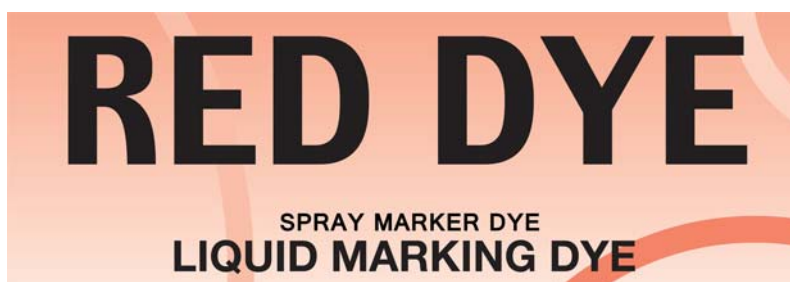
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Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name: Reactor Red Spray Marker Dye
Product Code: n/a
Product Use: Liquid marking dye and foam marker colouring agent.
Supplier: PCT International Pty Ltd
ABN: 44 101 170 923
Street Address: 5 / 74 Murdoch Circuit, ACACIA RIDGE QLD 4110
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Emergency telephone number: + 61 7 3711 7022

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.

Creation Date: 22nd November, 2012

2. COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Characterization Liquid

Ingredients	CAS NO.	Proportion (% weight/weight)
Rhodamine B	81-88-9	150g/L
Diethylene glycol	111-46-6	60-90%
Other non hazardous ingredients		0-30%

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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 traces of hydrogen chloride.
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. Neutralise with a Clean-Up product.

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7. HANDLING AND STORAGE

Handling	Red 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.
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

National Exposure Standards	NOHSC has set the following exposure standard for diethylene glycol : TLV (TWA) 100 mg/m ³ , 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
Boiling Point	>240°C
Solubility in Water	Soluble in water.
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

Hazardous Polymerization	Hazardous polymerisation is not possible.
Hazardous Decomposition Products	Avoid contact with aluminium, aluminium alloys, copper rich alloys and neoprene.
Hazardous Reaction	Vigorous reactions between spray marker dye 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.
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Ingestion	Breathing vapour can result in headaches and nausea. 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 4B: Minimal Concern Ingredients. Minimal Concern (List 4B) substances for which 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	LD ₅₀ (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	LC ₅₀ (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. If not recycling, 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.
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.

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15. REGULATORY INFORMATION

Risk Phrases	R22 Harmful if swallowed. R41 Risk of serious damage to eyes.
Safety Phrases	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
Packaging & Labelling	READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Hazard Category AICS (Australia)	Harmful,Irritant 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 4B: Minimal Concern Ingredients. Minimal Concern (List 4B) substances for which EPA has sufficient information to reasonably conclude that the current use pattern in pesticide products will not adversely affect public health or the environment.

16. OTHER INFORMATION

Contact Person/Point Normal Hours: Mr David Pearson Phone: + 61 7 3711 7022
After Hours: + 61 7 3711 7022

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