

# **PCT International Pty Ltd**

ABN 44 101 170 923 Unit 5 / 74 Murdoch Circuit, ACACIA RIDGE QLD 4110

sales@pct.au.com

Ph: 61 7 3711 7022 Fax: 61 7 3711 7055

# Reactor RED DYE

Classified as hazardous according to criteria of NOHSC

#### 1. IDENTIFICATION OF THE PRODUCT AND THE MANUFACTURER

**Product Name:** Reactor RED DYE liquid marking dye

Product Code: none

**Product Use:** Non-toxic dye for marking vegetation when using herbicides

Poison Schedule: not scheduled

**Supplier:** PCT International Pty Ltd

**ABN**: 44 101 170 923

Street Address: Unit 5 / 74 Murdoch Circuit, ACACIA RIDGE QLD 4110

**Telephone:** + 61 7 3711 7022 **Facsimile:** + 61 7 3711 7055

Emergency telephone №: 1800 630 877

**Other Information:** This SDS 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.

MSDS Creation Date: 17<sup>th</sup> July, 2013

# 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical

Formulation Type: Liquid solution

i officiation Type. Liquid Solution			
Ingredients	CAS №	Concentration	
Diazo dye		150 g/L	
Diethylene Glycol	111-46-6	60-90%	
Other ingredients not considered to be hazardous		to 100%	

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#### 3. HAZARDS IDENTIFICATION

Emergency Overview Harmful if swallowed. Risk of serious damage to eyes.

**Physical Appearance** 

Form: Liquid Colour: Strong red

Slight aromatic odour Odour: Water Solubility: Soluble in water

:Hq

**Potential Health Effects** 

Eyes: Irritating to the eyes. Prolonged contact may cause damage.

Skin: May cause slight irritation and drying of the skin.

Ingestion: Harmful if swallowed.

Inhalation: Inhalation of spray mists may produce respiratory irritation, and can result in

headaches.

**Primary Routes of** 

Entry: Eyes, Skin, Inhalation, Ingestion

**Target Organs:** Eyes, Skin, Respiratory Tract, Digestive System

Carcinogenicity: Not listed by NTP, IARC, ACGIH or OSHA as a carcinogen

#### 4. FIRST AID MEASURES

Flush eye(s) for 15 minutes or more- If irritation persists, consult a doctor (preferably Eyes:

an eye specialist) and show this SDS.

Remove any contaminated clothing. Wash affected areas immediately and Skin:

thoroughly with soap and water.

Ingestion: Rinse mouth and then drink plenty of water. Do not induce vomiting.

If swallowed seek medical advice and show this SDS.

Remove affected person from site of exposure to fresh air until recovered. Inhalation:

If not breathing, give artificial respiration. If breathing is difficult give oxygen. Seek

medical attention if symptoms persist.

First Aid Facilities: If poisoning occurs, contact a doctor or Poisons Information Centre on

13 11 26 (Australia).

**General Advice:** Remove soiled or soaked / contaminated clothing immediately.

Information for

doctor: Treat symptomatically. Gastric lavage with medicinal charcoal in water is

recommended.

#### 5. FIRE-FIGHTING MEASURES

Flash Point: Not applicable **Autoignition Temperature:** Not applicable. **Upper Explosion Limits:** Not applicable. **Lower Explosion Limits:** Not applicable.

Suitable Extinguishing Media: Foam, carbon dioxide, dry powder, water spray. Do not use a water jet from

a fire hose.

By-products in case of Fire: If involved in a fire, the product will emit oxides of carbon, oxides of nitrogen

and possibly traces of hydrogen chloride.

**Further Information:** Keep unnecessary persons away from the area. If safe to do so, remove

intact containers, otherwise use water spray to cool them. Collect contaminated firefighting water separately, by bunding the area with sand or

earth. Fire control water must not be discharged into drains.

**Special Protective** 

**Equipment for Firefighters:** As in any fire, water, self-contained breathing apparatus pressure-demand,

(MSHA/NIOSH approved or equivalent) and full protective clothing.

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#### **6. ACCIDENTAL RELEASE MEASURES**

#### Methods for Cleaning Up/ Taking Up:

Spills: Dealing with spills has the potential to increase the risk of personal exposure- during such operations, ensure that protective clothing is worn as detailed below. Avoid contact with spilled material or contaminated surfaces. Keep people and animals away. Prevent spillage from entering drains, sewers or watercourses. If contamination thereof is unavoidable, warn the local water authority. Spills should be contained and absorbed with soil, sand, sawdust, clay, cat litter or other similar material, and once absorption is complete, this material then be placed in sealable, labeled, drums for safe disposal in an approved landfill, and in accordance with the requirements of local or State Waste Management Authorities. Alternatively, bury under at least 500<sup>mm</sup> of soil in an area away from crops, pastures, homes or water sources. To decontaminate spill area, tools and equipment, wash with a suitable solution, e.g. organic solvent, detergent, bleach or caustic, and add this material to the drums of waste already collected. Label all contents. Do not burn empty containers or product.

#### 7. HANDLING AND STORAGE

Advice on safe

Handling: Keep out of reach of children. Avoid contact with eyes and skin. Wash hands after

use, and before smoking or eating / drinking. Wash protective gear and clothing after each day's use. 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.

Advice on protection against fire and

**explosion:** Use product and diluted mix only in a well ventilated area.

Storage information: Keep product in the original container, tightly closed, in a cool, well ventilated and

secure 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/m3, STEL

General protective

Measures: Avoid contact with eyes and skin

Do not inhale mists.

**Hygiene Measures:** No smoking, eating or drinking allowed when using this product.

Wash hands before breaks and at end of work shift.

Protective ointment is recommended.

Respiratory

**Protection:** In case of formation of mists or vapours, an organic vapour cartridge respirator

should be used.

**Hand Protection:** Elbow length PVC gloves should be worn when using this product.

**Eye Protection:** Safety goggles and/or face shield is recommended when using this product. **Protective clothing;** Cotton overalls buttoned to the neck and wrist, and a washable hat, are required

when using this product.

Engineering Controls: Use in a well ventilated area only. Good general (mechanical) ventilation should be

sufficient to control airborne mist levels.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Strong red liquid
Odour: Slight aromatic odour.
Solubility in Water: Soluble in water.

**Specific Gravity** 

(**H₂O=1**): approx. 0.945 @ 20°C

pH Value: not determined

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**Vapour Pressure:** 0.0013 kPa @ 20°C (diethylene glycol)

Melting Temperature: not measured Boiling temperature: >240°C Viscosity, dynamic: not measured

#### 10. STABILITY AND REACTIVITY

Conditions to avoid: None with proper storage and handling, other than extreme heat.

Thermal

**Decomposition:** Not measured.

Hazardous reactions: No hazardous reactions with proper storage and handling

**Hazardous** 

**Polymerization:** Unlikely to occur.

**Stability:** Stable under normal conditions of storage and use.

Hazardous decomposition

**products:** Strong reactions between spray marker dye and oxidising agents are possible.

#### 11. TOXICOLOGICAL INFORMATION

Acute Toxicity - Oral: LD<sub>50</sub> (rat) 400-2000 mg/kg.

**Acute Toxicity -**

**Inhalation:** not determined

Acute Toxicity -

**Dermal:** not determined

**Eye Irritation:** (Species - rabbit) moderate irritant **Skin Irritation:** (Species - rabbit) non - irritant **Skin Sensitisation:** (Species - guinea pig) non-sensitising

**Note:** harmful by inhalation and in contact with skin

Irritant to skin

Risk of serious damage to eyes

The toxicological data refer to the undiluted 100% product.

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity Effects:** 

Acute Toxicity - Fish: not determined.

Acute Toxicity -

**Fish:** not determined.

Acute Toxicity -

Algae: not determined

Acute Toxicity -

Birds: not determined Further ecological information:

**Ecological notes:** Do not contaminate any waterways with this product.

# 13. DISPOSAL CONSIDERATIONS

#### ALWAYS DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

**Product Disposal:** In accordance with local authority regulations, take to special waste incineration

plant.

**Container Disposal:** Dispose of empty, used containers by triple rinsing, or preferably pressure rinsing. Add the rinsate to the spray tank or dispose of the rinsate in a disposal pit away from desirable plants and their roots and from watercourses. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return cleaned containers to a recycler or designated collection point. If not recycling, break, crush or puncture empty containers and bury in a local authority landfill. If no landfill available, bury the containers at

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least 500<sup>mm</sup> deep 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

**U.N. Number:** n/a **DG Class:** n/a

Hazchem Code: None Allocated

Class & Subsidiary Risk: n/a
Packing Group: 111
EPG: n/a

**Storage and Transport:** Considered non – dangerous goods for transport by the Australian Code for

the Transport of Dangerous Goods by Road and Rail.

#### 15. REGULATORY INFORMATION

**Risk Phrases:** R65 Harmful- may cause lung damage if swallowed.

Safety Phrases: S24/25 Avoid Contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

Poisons Schedule:

not scheduled

Packaging &

Labeling: READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**Hazard Category** 

AICS (Australia): Listed on the Australian Inventory of Chemical Substances.

#### **16. OTHER INFORMATION**

Contact Person/Point: Mr David Pearson Phone: (07) 3711 7022

This SDS contains only safety-related information. For other data, see product literature.

Any advice, recommendation, information, assistance or service provided by PCT International Pty Ltd in relation to the goods supplied by it or their use or application is given in good faith and believed to be appropriate and reliable. However, it is provided with a disclaimer for any liability or responsibility on the part of PCT International Pty Ltd. The customer accepts all risk and responsibility for use of the goods alone, or in combination with other products. All warranties, guarantees and conditions, other than those expressly stated, and when implied by statute, common law, custom of the trade or otherwise, are to the extent that the law permits, expressly excluded.

...End of SDS...

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