

# **PCT International Pty Ltd**

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# PCT REACTOR<sup>™</sup> PENETRANT

Classified as hazardous according to criteria of NOHSC

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

**Product Name:** PCT Reactor Penetrant

Product Code: none

**Product Use**: A non-ionic wetter / spreader / penetrant for use with agricultural pesticides

Supplier: PCT International Pty Ltd

**ABN:** 44 101 170 923

Street Address: Unit 1 / 74 Murdoch Circuit, ACACIA RIDGE QLD 4110

Telephone: + 61 7 3711 7022 Facsimile: + 61 7 3711 7055 Emergency telephone number: 07 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: 11<sup>th</sup> August 2011

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical

Characterization: Liquid

Ingredients CAS NO. Proportion

(% weight/weight)
75%

Oxirane, methyl-, polymer with oxirane,

mono(3-1,3,3,3-tetramethyl-1-

((trimetylsilyl)oxy)disiloxanyl)propyl) ether

other ingredients not considered to be hazardous to 100%

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134180-76-0

#### 3. HAZARDS IDENTIFICATION

**Emergency Overview Physical Appearance** 

Form Liquid
Colour Light Yellow
Odour Characteristic
Water Solubility Soluble

pH 8

**Potential Health Effects** 

Immediate Concerns Harmful by inhalation and in contact with skin. Irritating to skin. Risk of

serious damage to eyes. Toxic for aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

Eyes Severely irritating to the eyes
Skin May cause slight irritation

Ingestion May be slightly toxic based on acute animal studies. Exact effects on humans

are not known.

**Inhalation** May be slightly toxic based on acute animal studies. Exact effects on humans

are not known.

**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

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

(preferably an eye specialist) and show MSDS.

**Skin** Wash affected areas immediately and thoroughly with soap and water.

**Ingestion** Rinse mouth and then drink plenty of water.

If swallowed seek medical advice and show MSDS.

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

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

Get Immediate medical attention.

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

13 11 26 (Australia).

General Advice Remove soiled or soaked clothing immediately

#### 5. FIRE-FIGHTING MEASURES

Flash Point 216°F (102°C) Method - TAG C/C

Autoignition

Temperature Not measured.
Upper Explosion Limits Not measured.
Lower Explosion Limits Not measured.

Suitable Extinguishing

Media

Foam, carbon dioxide, dry powder, water spray

**Extinguishing** 

Media which must not be

**used for safety reasons** Not applicable

**By-products in case of Fire** In the event of a fire the following can be released:

-carbon monoxide, carbon dioxide, silicon dioxide

**Further Information**Collect contaminated firefighting water separately- must not be

discharged into drains.

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**Special Protective** 

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

demand, (MSHA/NIOSH approved or equivalent) and full protective

gear.

**Hazardous Decomposition** 

**Products** 

None with proper storage and handling.

**OSHA Flammable Class** 

Combustible Liquid, Class 111B

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

Methods for Cleaning Up/

**Taking Up** 

Small Spills:

Use personal protective equipment.

Prevent from entering drains, waterways or sewers. Do not discharge into the subsoil/soil. Take up with absorbent material (eg. Sand,

Vermiculite)

#### 7. HANDLING AND STORAGE

**General Procedures** 

Handling Advice on safe

**handling:** Formation of aerosols or vapours during application should be prevented.

Wear respiratory protection when spraying.

Advice on protection

against fire and

**explosion** No sp

Storage

No special measures required.

Further information Keep container tightly closed

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### OSHA hazardous components (29 CFR 1910.1200)

Components	CAS No	Basis	Туре	Value	Note
Oxirane, methyl-,	134180-76-0	OSHA PEL	TWA		Not established
polymer with oxirane,					
mono(3-1,3,3,3-					
tetramethyl-1-					
((trimetylsilyl)oxy)disil					
oxanyl)propyl) ether					

**Personal Protective** 

**Equipment** 

General protective Measures

**s** Avoid contact with eyes and skin

Do not inhale aerosols.

**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 aerosols or vapours, an organic vapour cartridge

repirator may be used.

Hand Protection PVC Gloves

**Eye Protection** Safety goggles and/or face shield is recommended for use.

**Protective clothing** Light protective clothing is required.

Engineering Controls Good general (mechanical) ventilation should be sufficient to control airborne

levels.

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

Light yellow liquid **Appearance** Odour Characteristic Solubility in Water Soluble

**Specific Gravity** 

approx. 1.02g/cm<sup>3</sup> (H2O=1)pH Value 8 at 40g/L water at 25°C

Vapour Pressure not measured Melting Temperature not measured Boiling temperature not measured

Viscosity, dynamic

approx. 40-90 mPa.s at 25°C Method: DIN 53019

Volatile organic

Compound 15.15g/L percent non-volatile 98.5%

#### 10. STABILITY AND REACTIVITY

Conditions to avoid

**Thermal** 

None with proper storage and handling

decomposition

Not measured

Hazardous reactions No hazardous reactions with proper storage and handling

**Hazardous** 

**Polymerization Stability** 

No Yes

**Hazardous** decomposition

products None with proper storage and handling

#### 11. TOXICOLOGICAL INFORMATION

Acute Toxicity - Oral LD<sub>50</sub> (rat) 3,200mg/kg

**Acute Toxicity -**

Inhalation

LD<sub>50</sub> (rat) 1.08mg/L exposure time 4h Method OECD 403.

Source: Untersuchungsbericht/Th. Goldschmidt AG

**Acute Toxicity -**

**Dermal** LD<sub>50</sub> (rabbit) 1550mg/kg **Eye Irritation** Species: rabbit strongly irritant **Skin Irritation** Species: rabbit slightly 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 LC<sub>50</sub> for *rainbow trout* is 2.1 mg/l.

**Acute Toxicity -**

**Daphniae**  $EC_{50}$  for daphnia magna is 1.1 mg/l.

Acute Toxicity -

EC<sub>50</sub> for scenedesmus subspicatus is 28.3mg/l refer to biomass Algae

EC<sub>50</sub> for scenedesmus subspicatus is 152.2mg/l growth rate

Further ecological information

**Ecological notes** The product is considered to be a water pollutant (German law)

Do not discharge product unmonitored into the environment. The ecotoxicological data refer to the undiluted 100% product.

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The product does not cause essential disturbances of ecological processes and equilibriums, when used in the recommended concentrations and ways of applications.

#### 13. DISPOSAL CONSIDERATIONS

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** 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 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

Storage and Transport Considered non dangerous for transport by the Australian Code for

the Transport of Dangerous Goods by Road and Rail. The below

classification refers to sea shipments only.

U.N. Number 3082 DG Class 9

Hazchem Code None Allocated Hazard Release Polyethersiloxane

Packing Group III



#### 15. REGULATORY INFORMATION

**Risk Phrase** R20/21 Harmful by inhalation and contact with skin.

R38 Irritating to skin

R41 Risk of serious damage to eyes

Safety Phrase S24 Avoid Contact with skin

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 Packaging &

Not scheduled

Labeling Hazard Category READ SAFETY DIRECTIONS BEFORE OPENING OR USING

AICS (Australia)

Listed on the Australian Inventory of Chemical Substances.

**APVMA Approval №** 60851/0306

# **16. OTHER INFORMATION**

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

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...End of MSDS...

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