

# MATERIAL SAFETY DATA SHEET



## PCT International Pty Ltd

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# PCT REACTOR<sup>®</sup> SURFACTANT 700

Classified as hazardous according to criteria of NOHSC

## 1. IDENTIFICATION OF THE PRODUCT AND THE MANUFACTURER

**Product Name:** PCT Reactor Surfactant 700  
**Product Use:** Acidifying and penetrating surfactant. Reduces alkaline hydrolysis of Dimethoate. Assists with uptake of foliar fertilizers and assists in management of spray droplet size. Reduces brown out time for Glyphosate.  
**Supplier:** PCT International Pty Ltd  
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**Telephone:** + 61 7 3711 7022  
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**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.

**Date:** 11<sup>th</sup> August, 2011

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization** Liquid

Ingredients	CAS NO.	Proportion (% weight/weight)
Propionic acid	79-09-4	350g/L
Soyal Phospholipids	8002-43-5	350g/L
Surfactants		10-30%

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## 3. HAZARDS IDENTIFICATION

<b>Other Information</b>	Causes burns. Risk of serious damage to eyes. Poisons Schedule S5
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## 4. FIRST AID MEASURES

<b>Inhalation</b>	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
<b>Ingestion</b>	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 (Australia). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.
<b>Skin</b>	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If irritation persists, seek medical advice.
<b>Eye</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.
<b>First Aid Facilities</b>	Seek medical advice immediately. If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26 (Australia).
<b>Advice to Doctor</b>	Treat symptomatically. If vomiting has occurred, vomitus may have been aspirated into the lungs which may result in lung damage.

## 5. FIRE-FIGHTING MEASURES

<b>Extinguishing Media</b>	Choose extinguishing media to suit the burning material.
<b>Specific Hazards</b>	Considered low risk due to water content, however upon evaporation of water the product is combustible.
<b>Hazardous Combustion Products</b>	Non-combustible. If involved in a fire, the dehydrated components may emit oxides of carbon, oxides of nitrogen and minor quantities of phosphorous oxides.
<b>Protective Equipment</b>	Breathable air apparatus should be worn when fighting a fire in which this product is involved.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Spills &amp; Disposal</b>	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.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	Prevent from entering drains, waterways or sewers.

## 7. HANDLING AND STORAGE

<b>Storage</b>	Store in the closed, original container in a cool, well ventilated area out of direct sunlight.
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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>National Exposure Standards</b>	No exposure standard for this product has been set, however, an exposure standard has been set for propionic acid at 30 mg/m <sup>3</sup> .
<b>Personal Protective Equipment</b>	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 face shield or goggles.
<b>Eng. Controls Hygiene Measures</b>	Handle in well ventilated areas, generally natural ventilation is adequate. 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.
<b>Requirements Concerning Special Training</b>	NSW regulations require that people who use pesticides in their job or business must have training in the application of the materials. By 1st September, 2005 all users must have received such training.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Dark brown liquid
<b>Odour</b>	Pungent, vinegar-like odour
<b>Solubility in Water</b>	Disperses in water.
<b>Specific Gravity (H<sub>2</sub>O=1)</b>	1.035
<b>pH Value</b>	3.6 (1% solution)
<b>Vapour Pressure</b>	0.5 kPa @ 25°C (propionic acid)
<b>Partition co-efficient, n-octanol/water</b>	K <sub>ow</sub> Log P is 0.25 (propionic acid)
<b>Flammability</b>	Non combustible material.
<b>Other Information</b>	pKa is 4.87 (propionic acid)

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions.
<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.
<b>Materials to Avoid</b>	Avoid contact with alkaline materials.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information:</b>	
<b>Inhalation</b>	Inhalation of vapours or mists of this material will result in irritation of the nose, throat and lungs. Symptoms may include nasal irritation, sore throat, coughing, hoarseness and, in extreme exposures, breathing difficulties.
<b>Ingestion</b>	Prolonged contact with the concentrate may cause irritation or burns to the mucous membranes.
<b>Skin</b>	Will irritate the skin.
<b>Eye</b>	The concentrate will cause severe irritation and possible damage unless washed off immediately.
<b>Chronic Effects</b>	No information available, no chronic effects expected.
<b>Acute Toxicity - Oral</b>	LD <sub>50</sub> (rat) >5000 mg/kg for a similar formulation

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<b>Acute Toxicity - Dermal</b>	LD <sub>50</sub> (rabbit) >5000 mg/kg for a similar formulation
<b>Acute Toxicity - Inhalation</b>	LC <sub>50</sub> (rat) (4hr) >6.04 mg/l for a similar formulation
<b>Eye Irritation</b>	Product is a severe eye irritant.
<b>Skin Irritation</b>	Severe irritant
<b>Skin Sensitisation</b>	Product is not a skin sensitiser.

## 12. ECOLOGICAL INFORMATION

### Environ. Protection

**Acute Toxicity - Fish** The following data refers to the active ingredient, propionic acid.  
LC<sub>50</sub> (96 hr) for bluegill sunfish is 210 mg/l.  
LC<sub>50</sub> (96 hr) for rainbow trout is 130 mg/l.

**Acute Toxicity - Daphnia** LC<sub>50</sub> (48 hr) for daphnia is 170 mg/l.

## 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** 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

<b>U.N. Number</b>	None Allocated
<b>DG Class</b>	None Allocated
<b>Hazchem Code</b>	None Allocated
<b>Packing Group</b>	None Allocated
<b>Storage and Transport</b>	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

<b>Risk Phrase</b>	R34 Causes burns. R41 Risk of serious damage to eyes.
<b>Safety Phrase</b>	S1/2 Keep locked up and out of reach of children. S13 Keep away from food, drink and animal feeding stuffs. S25 Avoid contact with eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37 Wear suitable gloves. S39 Wear eye/face protection. S45 In case of accident or if you feel unwell seek medical advice immediately
<b>Poisons Schedule</b>	S5
<b>Packaging &amp; Labelling</b>	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
<b>Hazard Category</b>	Corrosive
<b>AICS (Australia)</b>	All of the components in this product are listed on the Australian Inventory of Chemical Substances.
<b>APVMA Approval No</b>	60791/0406

## 16. OTHER INFORMATION

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

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...End of MSDS...