

# Material Safety Data Sheet

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Infosafe No™ 3NU29 Issue Date :April 2009 ISSUED by CRPCARE CS: 1.4.21

Product Name **PAYBACK Plant Growth Regulator**

Classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** PAYBACK Plant Growth Regulator  
**Product Code** 5218  
**Product Type** Plant Growth Regulator  
**Company Name** Crop Care Australasia Pty Ltd (ABN 53 061 362 347)  
**Address** Unit 15/16 Metroplex Avenue Murarrie  
Queensland 4172 Australia  
**Emergency Tel.** 1800 033 498 (24hr Australia)  
**Telephone/Fax Number** Tel: +61 7 3909 2000  
Fax: +61 7 3909 2010  
**Recommended Use** To reduce vegetative growth in mango, stone fruit and apple trees.  
**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.

## 2. HAZARDS IDENTIFICATION

**Hazard Classification** Classified as hazardous  
HAZARDOUS SUBSTANCE.  
NON-DANGEROUS GOODS.  
Hazard classification according to the criteria of NOHSC.  
Dangerous goods classification according to the Australia Dangerous Goods Code.  
**Risk Phrase(s)** Classified as hazardous  
R36 Irritating to eyes.  
R63 Possible risk of harm to the unborn child.  
**Safety Phrase(s)** S13 Keep away from food, drink and animal feeding stuffs.  
S2 Keep out of reach of children.  
S25 Avoid contact with eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36 Wear suitable protective clothing.  
**Other Information** Poisons Schedule S5

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization** Liquid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Paclabutrazol technical	76738-62-0	250 g/L
	Non hazardous components		Remainder

## 4. FIRST AID MEASURES

**Inhalation** If symptoms develop or persist, seek medical advice.  
**Ingestion** Rinse mouth thoroughly with water.  
Give a glass of water.  
Obtain medical advice.  
**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.  
Seek medical advice immediately.  
**Advice to Doctor** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

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<b>Suitable Extinguishing Media</b>	If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.
<b>Hazards from Combustion Products</b>	If involved in a fire, the dehydrated components may emit oxides of carbon, oxides of nitrogen and hydrogen chloride.
<b>Special Protective Equipment for fire fighters</b>	Breathable air apparatus may have to be worn in confined spaces.
<b>Other Information</b>	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

## 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. Use earthen bunds or absorbent bunding to prevent spreading of spillage.

## 7. HANDLING AND STORAGE

<b>Conditions for Safe Storage</b>	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.
<b>Other Information</b>	Always read the label and any attached leaflet before use.

## 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 recommended by the supplier for paclobutrazol at 10 mg/m <sup>3</sup> .
<b>Engineering Controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Respiratory Protection</b>	Do not inhale spray mist.
<b>Personal Protective Equipment</b>	It is good practice to wear suitable personal protective equipment (PPE). When preparing product for use wear elbow-length PVC gloves and face shield or goggles.
<b>Hygiene Measures</b>	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Liquid
<b>Appearance</b>	White suspension
<b>Odour</b>	Odourless
<b>Solubility in Water</b>	Disperses in water. Solubility of paclobutrazol is 26 mg/L @ 20°C
<b>Specific Gravity</b>	1.07
<b>Vapour Pressure</b>	0.001 mPa @ 20°C
<b>Volatile Component</b>	Water, 64%
<b>Octanol/Water Partition Coefficient</b>	Kow Log P is 3.2
<b>Flammability</b>	Non combustible material.

## 10. STABILITY AND REACTIVITY

<b>Hazardous Reactions</b>	None known.
<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.

## 11. TOXICOLOGICAL INFORMATION

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<b>Inhalation</b>	May cause irritation to mucous membranes and respiratory tract.
<b>Ingestion</b>	Possible symptoms of exposure to the concentrate include: nausea, vomiting and abdominal pains.
<b>Skin</b>	Prolonged contact with the concentrate may cause irritation.
<b>Eye</b>	The concentrate may cause irritation of the eyes.
<b>Chronic Effects</b>	Regular exposure may result in adverse effects on the liver. Chronic studies in rats and dogs have shown liver effects (increased liver weights) in animals fed 12.5 and 75 mg/kg/day respectively.
<b>Reproductive Toxicity</b>	Evidence from animal studies suggests dose related increase in skeletal defects, increased fetotoxicity and decreased litter survival rates.
<b>Mutagenicity</b>	Data indicates no mutagenic effects.
<b>Carcinogenicity</b>	Data indicates no carcinogenic effects.
<b>Acute Toxicity - Oral</b>	LD50 (rat) (male) 2000 mg/kg for paclobutrazol LD50 (rat) (female) 1300 mg/kg for paclobutrazol
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) >1000 mg/kg for paclobutrazol
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) (male) 4.79 mg/l for paclobutrazol LC50 (rat) (4hr) (female) 3.13 mg/l for paclobutrazol
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for paclobutrazol for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.4 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', April 2008).

## 12. ECOLOGICAL INFORMATION

<b>Persistence / Degradability</b>	Average field half life of paclobutrazol is 180 - 365 days.
<b>Acute Toxicity - Fish</b>	The following is data for the active ingredient, paclobutrazol. LC50 (96hr) for rainbow trout is 27.8 mg/l.
<b>Acute Toxicity - Daphnia</b>	LC50 (48hr) for daphnia magna is 33.2 mg/l.
<b>Acute Toxicity - Other Organisms</b>	The following data is for the active ingredient, paclobutrazol. Birds: Not toxic to birds. LD50 for mallard duck is >7900 mg/kg Bees: Not toxic to bees. LD50 >100 µg/bee. Aquatic plants: Lemna gibba (duckweed). EC50 0.0082 mg/l

## 13. DISPOSAL CONSIDERATIONS

<b>Product Disposal</b>	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 (ChemClear®).
<b>Container Disposal</b>	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.

## 14. TRANSPORT INFORMATION

<b>Transport Information</b>	It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilisers during transport.
<b>Storage and Transport</b>	Considered non dangerous for road and rail transport (in packs less than 3000 kg or 1t) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.

For bulk shipments as Class 9, use UN 3082, HazChem code •3Z.

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<b>UN Number (Sea Transport)</b>	3082
<b>IMO Class/Packing Group</b>	Class 9
<b>IMO Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains paclobutrazol)

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## 15. REGULATORY INFORMATION

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<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>	Harmful,Irritant
<b>AICS (Australia)</b>	All of the components in this product are listed on the Australian Inventory of Chemical Substances.

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## 16. OTHER INFORMATION

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<b>Date of preparation or last revision of MSDS</b>	Revised 06/04/2009	
<b>Contact Person/Point Revisions Highlighted</b>	Normal Hours: Mr Volker Maier After Hours: Shift Supervisor	Phone: (03) 9282 1000 Phone: 1800 033 498
	MSDS reviewed and is now classified as an R63.	
	See Section 14 for changes to Transport Information. ...End Of MSDS...	

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