

Infosafe No™ 3NV02	Issue Date : July 2017	ISSUED by NUFARM
--------------------	------------------------	------------------

 Product Name **PAYBACK Plant Growth Regulator**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	PAYBACK Plant Growth Regulator
<b>Product Code</b>	5218
<b>Product Type</b>	Plant Growth Regulator
<b>Company Name</b>	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
<b>Address</b>	103-105 Pipe Road Laverton North Victoria 3026 Australia
<b>Telephone/Fax Number</b>	Tel: +61 3 9282-1000 Fax: +61 3 9282-1001
<b>Emergency phone number</b>	1800 033 498 (24hr Australia)
<b>Recommended use of the chemical and restrictions on use</b>	This product is used to reduce vegetative growth in mango, stone fruit and apple trees and for growth control of container grown ornamentals as per the Directions for Use table on the label.
<b>Other Information</b>	This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.

## 2. Hazard Identification

<b>GHS classification of the substance/mixture</b>	Toxic to Reproduction: Category 2 Acute Toxicity - Oral: Category 4 Acute Toxicity - Inhalation: Category 4 Eye Damage/Irritation: Category 2A Skin Corrosion/Irritation: Category 2 STOT Repeated Exposure Category 2
<b>Signal Word (s)</b>	WARNING
<b>Hazard Statement (s)</b>	Suspected of damaging fertility or the unborn child. Harmful if swallowed. Harmful if inhaled. Causes serious eye irritation. Causes skin irritation. May cause damage to organs through prolonged or repeated exposure.
<b>General Precautionary Statement (s)</b>	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.
<b>Pictogram (s)</b>	Exclamation mark, Health hazard, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



<b>Precautionary statement – Prevention</b>	Do not handle until all safety precautions have been read and understood. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves, clothing, eye and face protection. Do not breathe spray.
<b>Precautionary statement – Response</b>	IF exposed or concerned: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Infosafe No™ 3NV02	Issue Date : July 2017	ISSUED by NUFARM
--------------------	------------------------	------------------

Product Name **PAYBACK Plant Growth Regulator**

Classified as hazardous

**Other Information**

IF ON SKIN: Wash with plenty of soap and water.  
 If skin irritation occurs: Get medical advice/attention.  
 Take off contaminated clothing and wash before reuse.  
 Poisons Schedule S5

**3. Composition/information on ingredients**

<b>Chemical Characterization</b>	Liquid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Paclbutrazol	76738-62-0	250 g/L
	Non hazardous components		Remainder

**4. First-aid measures**

<b>Inhalation</b>	If symptoms develop or persist, seek medical advice.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give a glass of water. Obtain medical advice.
<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 contact</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice immediately.
<b>Advice to Doctor</b>	Treat symptomatically.

**5. Fire-fighting measures**

<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</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, including any incompatibilities</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>Occupational exposure limit values</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/m3.
<b>Appropriate engineering controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.

Infosafe No™ 3NV02	Issue Date : July 2017	ISSUED by NUFARM
--------------------	------------------------	------------------

Product Name **PAYBACK Plant Growth Regulator**

Classified as hazardous

<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>Partition Coefficient: n-octanol/water</b>	Kow Log P is 3.2
<b>Flammability</b>	Non combustibile material.

## 10. Stability and reactivity

<b>Possibility of hazardous reactions</b>	None known.
<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.

## 11. Toxicological Information

<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>Ingestion</b>	Possible symptoms of exposure to the concentrate include: nausea, vomiting and abdominal pains.
<b>Inhalation</b>	May cause irritation to mucous membranes and respiratory tract.
<b>Skin</b>	Prolonged contact with the concentrate may cause irritation.
<b>Eye</b>	The concentrate may cause irritation of the eyes.
<b>Carcinogenicity</b>	Data indicates no carcinogenic effects.
<b>Reproductive Toxicity</b>	Evidence from animal studies suggests dose related increase in skeletal defects, increased fetotoxicity and decreased litter survival rates.
<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>Mutagenicity</b>	Data indicates no mutagenic effects.
<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', March 2016).

## 12. Ecological information

Infosafe No™ 3NV02	Issue Date : July 2017	ISSUED by NUFARM
--------------------	------------------------	------------------

Product Name **PAYBACK Plant Growth Regulator**

Classified as hazardous

<b>Persistence and degradability</b>	Average field half life of paclobutrazol is 180 - 365 days.
<b>Other Precautions</b>	Do not contaminate streams, rivers or waterways with the chemical or used containers.
<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 or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in local authority landfill. 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. 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 not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
<b>Storage and Transport</b>	Considered non dangerous for road and rail transport (in packaging, including IBCs not greater than 3000 Lt each) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.
<b>UN Number (Sea Transport)</b>	For bulk shipments as Class 9, use UN 3082, HazChem code 2Z. 3082
<b>IMO Class/Packing Group</b>	Class 9
<b>IMO Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains paclobutrazol)

### 15. Regulatory information

<b>Regulatory Information</b>	Australia: WHS regulations (2011) - Schedule 11: classification not listed.
<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>Other Information</b>	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 58627.

### 16. Other Information

Infosafe No™ 3NV02	Issue Date : July 2017	ISSUED by NUFARM
--------------------	------------------------	------------------

Product Name **PAYBACK Plant Growth Regulator**

Classified as hazardous

---

**Date of preparation or last revision of SDS** 04/07/2017

**Contact Person/Point** Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000  
After Hours: Shift Supervisor Phone: 1800 033 498

**Revisions Highlighted** The SDS was reviewed. Minor changes were made to the information and product has been rebranded.

...End Of MSDS...

© Copyright ACOHS Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd. The compilation of MSDS's displayed is the intellectual property of Acohs Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Acohs Pty Ltd.