

Infosafe No™ 3NV02	Issue Date : September 2020	ISSUED by NUFARM
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 Product Name **PAYBACK Plant Growth Regulator**

Classified as hazardous

1. Identification

GHS Product Identifier	PAYBACK Plant Growth Regulator
Product Code	5218
Product Type	Plant Growth Regulator
Company Name	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
Address	103-105 Pipe Road Laverton North Victoria 3026 Australia
Telephone/Fax Number	Tel: +61 3 9282-1000
Emergency phone number	1800 033 498 (24hr Australia)
E-mail Address	SDSANZ@nufarm.com
Recommended use of the chemical and restrictions on use	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.
Other Information	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

GHS classification of the substance/mixture	Toxic to Reproduction: Category 2 Acute Toxicity - Oral: Category 4 Skin irritation: Category 2 Eye Damage/Irritation: Category 2A Aquatic toxicity (Chronic): Category 1
Signal Word (s)	WARNING
Hazard Statement (s)	Suspected of damaging the unborn child. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.
Precautionary statement – General	Keep out of reach of children. Read label before use.
Pictogram (s)	Exclamation mark, Health hazard, Environment



Precautionary statement – Prevention	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.
Precautionary statement – Response	IF EXPOSED OR CONCERNED: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. 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. 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.
Other Information	Poisons Schedule S5

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3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Paclobutrazol	76738-62-0	250 g/L
	Anionic dispersant		0-10 %
	Propylene glycol	57-55-6	0-10 %
	Non hazardous components		>60%

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 contact	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

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

6. Accidental release measures

Spills & Disposal	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.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent from entering drains, waterways or sewers. Use earthen bunds or absorbent bunding to prevent spreading of spillage.

7. Handling and storage

Conditions for safe storage, including any incompatibilities	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.
Other Information	Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure standard for this product has been set, however, an exposure standard has been recommended by the supplier for paclobutrazol at 5 mg/m ³ . The exposure standard for propylene glycol (particulates only) is 10 mg/m ³ (Safe Work Australia HCIS).
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Respiratory Protection	Do not inhale spray mist.

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Personal Protective Equipment	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.
Hygiene Measures	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

9. Physical and chemical properties

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

10. Stability and reactivity

Possibility of hazardous reactions	None known.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat) (male) 2000 mg/kg for paclobutrazol LD50 (rat) (female) 1300 mg/kg for paclobutrazol
Acute Toxicity - Dermal	LD50 (rabbit) >1000 mg/kg for paclobutrazol
Acute Toxicity - Inhalation	LC50 (rat) (4hr) (male) 4.79 mg/l for paclobutrazol LC50 (rat) (4hr) (female) 3.13 mg/l for paclobutrazol
Ingestion	Possible symptoms of exposure to the concentrate include: nausea, vomiting and abdominal pains.
Inhalation	May cause irritation to mucous membranes and respiratory tract.
Skin	Prolonged contact with the concentrate may cause irritation.
Eye	The concentrate may cause irritation of the eyes.
Carcinogenicity	Data indicates no carcinogenic effects.
Reproductive Toxicity	Evidence from animal studies suggests dose related increase in skeletal defects, increased fetotoxicity and decreased litter survival rates.
Chronic Effects	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.
Mutagenicity	Data indicates no mutagenic effects.
Other Information	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', June 2016).

12. Ecological information

Persistence and degradability	Average field half life of paclobutrazol is 180 - 365 days.
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Other Precautions Do not contaminate streams, rivers or waterways with the chemical or used containers.

Acute Toxicity - Fish The following is data for the active ingredient, paclobutrazol.
LC50 (96hr) for rainbow trout is 27.8 mg/l.

Acute Toxicity - Daphnia LC50 (48hr) for daphnia magna is 33.2 mg/l.

Acute Toxicity - Other Organisms 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

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 (ChemClear®).

Container Disposal 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

Transport Information It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.

Storage and Transport UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (contains paclobutrazol) Class 9 PGII Marine Pollutant
ADG Code: Not a dangerous good in packs <500 kg or IBCs <3000 kg (Special Provision AU001)
IATA Code: Not restricted for transport when 5 kg or less (Special Provision 197)

15. Regulatory information

Regulatory Information Australia: WHS regulations (2011) - Schedule 11: classification not listed.

Poisons Schedule S5

Packaging & Labelling CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Other Information This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 58627.

16. Other Information

Date of preparation or last revision of SDS 02/09/2020

Contact Person/Point Normal Hours: SDS Coordinator 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 classification.

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