

# Safety Data Sheet

according to WHS Regulations

Printing date 10.01.2023

Revision: 09.01.2023

## 1 Identification

**Product Name: Perlan - Plant Growth Regulator**

**Other Means of Identification:** Mixture

**APVMA Approval Number:** 53540

**Recommended Use of the Chemical and Restriction on Use:** Plant growth regulator

**Details of Manufacturer or Importer:**

Titan Ag Pty Ltd  
Princes Street Marina  
Suite 15/16 Princes Street  
Newport NSW 2106

**Phone Number:** 02 9999 6655

**Emergency telephone number:** 02 9999 6655

## 2 Hazard(s) Identification

**Hazardous Nature:**

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition), IATA and IMDG/IMSBC.

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS). Not classified as hazardous according to the Safe Work Australia criteria.

Aquatic Acute 3 H402 Harmful to aquatic life.

**Signal Word** None

**Hazard Statements**

H402 Harmful to aquatic life.

**Precautionary Statements**

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

## 3 Composition and Information on Ingredients

**Chemical Characterization: Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

**Hazardous Components:**

CAS: 1214-39-7	Benzylaminopurine ⚠ Toxic To Reproduction 2, H361; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ⚠ Acute Toxicity (Oral) 4, H302	<2%
CAS: 77-92-9	Citric acid ⚠ Skin Corrosion/Irritation 2, H315; Eye Irritation 2A, H319; STOT SE 3, H335	<0.5%

**Non Hazardous Components:**

CAS: 468-44-0	Gibberellin A4	<2%
CAS: 510-75-8	Gibberellin A7	<2%
	Ingredients determined to be non-hazardous	>96%

## 4 First Aid Measures

**Inhalation:** If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if irritation occurs and persists.

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**Eye Contact:**

In case of eye contact, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if irritation persists.

**Ingestion:**

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention if feeling unwell.

**Symptoms Caused by Exposure:**

Inhalation: May cause mild respiratory irritation.

Skin Contact: May cause mild skin irritation.

Eye Contact: May cause eye irritation.

Ingestion: May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

### 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Use dry chemical, carbon dioxide (CO<sub>2</sub>) or foam.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include oxides of carbon and smoke.

Product is not flammable. However, it may burn in a larger fire.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Prevent run-off from fire fighting entering drains or water courses.

**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

### 6 Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots.

Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

Inform respective authorities in case of seepage into water course or sewage system.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material.

Collect the spilled material and place into a suitable container for disposal.

### 7 Handling and Storage

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours or mists.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from light.

Protect from heat and direct sunlight. Keep away from strong oxidising agents.

### 8 Exposure Controls and Personal Protection

**Exposure Standards:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Engineering Controls:** Ensure adequate ventilation of the working area.

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**Respiratory Protection:** Respiratory protection is not required under normal use conditions.**Skin Protection:**

Elbow-length gloves. Recommended material: PVC. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Safety glasses with top and side shields or goggles. See Australian/New Zealand Standards AS/NZS 1336 and 1337 for more information.

## 9 Physical and Chemical Properties

**Appearance:****Form:** Liquid**Colour:** Colourless**Odour:** Odourless**Odour Threshold:** No information available**pH-Value:** 4 - 5 (1%)**Melting point/freezing point:** No information available**Initial Boiling Point/Boiling Range:** 187 °C**Flash Point:** >100 °C**Flammability:** Not applicable.**Auto-ignition Temperature:** No information available**Decomposition Temperature:** No information available**Explosion Limits:****Lower:** No information available**Upper:** No information available**Vapour Pressure:** Negligible at normal ambient temperatures.**Relative Density:** 1.04**Vapour Density:** No information available**Evaporation Rate:** No information available**Solubility in Water:** Soluble**Partition Coefficient (n-octanol/water):** No information available**Viscosity:** 66.5 mPa·s

## 10 Stability and Reactivity

**Possibility of Hazardous Reactions:** No dangerous reactions known under conditions of normal use.**Chemical Stability:** Stable at ambient temperature and under normal conditions of storage and use.**Conditions to Avoid:** Protect from light. Protect from heat and direct sunlight.**Incompatible Materials:** Strong oxidising agents.**Hazardous Decomposition Products:** Oxides of carbon and smoke.

## 11 Toxicological Information

**Toxicity:****LD50/LC50 Values:****CAS: 1214-39-7 Benzylaminopurine**

Oral	LD50	1,584 mg/kg (rat)
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Dermal	LD50	>5,000 mg/kg (mouse)
Inhalation	LC50/4 h	>5 mg/l (rat)

**Acute Health Effects****Inhalation:** May cause mild respiratory irritation.**Skin:** May cause mild skin irritation.**Eye:** May cause eye irritation.**Ingestion:** May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:**

Based on classification principles, the classification criteria are not met.

This product does NOT contain any IARC listed chemicals.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** No information available**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for benzylaminopurine (6-benzyladenine) for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the LOAEL of 10 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: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2022).

## 12 Ecological Information

**Ecotoxicity:****Aquatic toxicity:**

Harmful to aquatic life.

**CAS: 1214-39-7 Benzylaminopurine**

EC50/48 h 0.32 mg/l (daphnia magna)

LC50/96 h (static) 0.53 mg/l (rainbow trout)

**Persistence and Degradability:** No data available on finished product.**Bioaccumulative Potential:** No data available on finished product.**Mobility in Soil:** No data available on finished product.**Other adverse effects:** No further relevant information available.

## 13 Disposal Considerations

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.

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**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

**14 Transport Information****UN Number** Not regulated**Proper Shipping Name** Not regulated**Dangerous Goods Class** Not regulated**Packing Group:** Not regulated**15 Regulatory Information****Australian Inventory of Industrial Chemicals:**

All components are on the inventory, or in compliance with the inventory.

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:**

Not a scheduled poison.

**Australian Pesticides and Veterinary Medicines Authority:**

This product is registered with the Australian Pesticides and Veterinary Medicines Authority. APVMA approval number 53540.

**16 Other Information****Date of Preparation or Last Revision:** 09.01.2023**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Acute Toxicity (Oral) 4: Acute toxicity – Category 4

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Toxic To Reproduction 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Acute 3: Hazardous to the aquatic environment, short-term (Acute). Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term (Chronic). Category 2

**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020”.

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