

Prepared in accordance with Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, February 2016)

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Date of issue: 23.03.2021

Version No: 1.01

Revision date: 06.04.2016 v1.0.

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### Product identifier

Trade name: **CANNAZYM**  
Synonym(s): -

### Relevant identified uses of the substance or mixture and uses advised against:

Liquid PK fertilizer.

### Product

category: Product Category 12 (PC12 Fertilizers),  
Sector of Use 21 (SU21 Consumer uses).

### Details of the supplier of the safety data sheet

#### Manufacturer/supplier:

#### For Australia:

CANNA Australasia Pty Ltd  
PO Box 1816,  
Subiaco WA 6904 Australia  
Phone: 1800 422 662 / +61 (0)8 9217 4400

#### For New Zealand:

CANNA Australasia Pty Ltd  
PO Box 158,  
Auckland 1140, New Zealand  
Phone: 0800 422 662 / +61 (0)8 9217 4400

#### Further information obtainable from:

Contact person: N. Linton  
Tel.: +31 (0) 162-68 00 12  
Email: msds@canna.com  
Working hours  
(business days): 09:00-17:00.

#### Emergency telephone number:

Australia : Poisons Information Centre 13 11 26  
New Zealand: National Poisons Centre 0800 764 766

## SECTION 2: Hazards identification

### Classification of the substance or mixture

Classification in accordance with GHS, 3<sup>rd</sup> Revised Edition  
Void.

### Label elements and precautionary statement

#### Hazards pictograms:

-

Signal word: -

Hazard statements:

-

Precautions:

-

**Trade name:** CANNAZYM

**Hazard-determining components for labelling:** -

### Other hazards

Avoid inhalation of mists. In case of respiratory symptoms: consult a POISON CONTROL CENTRE or a doctor. Contains a total of approx. 0.2% of material that is classified as respiratory allergenic. People who are oversensitive to this product, which is manifested through asthmatic symptoms, should avoid all contact with the product.

### Results of PBT and vPvB assessment

**PBT:** No.

**vPvB:** No.

## SECTION 3: Composition/information on ingredients

### Chemical characterization: Mixture.

**Description:** Preparation based on i.a. water, phosphoric acid, enzymatic protein (by-product, not otherwise specified), cellulase.

#### Hazardous ingredients

##### Phosphoric acid 59 %

CAS#: 7664-38-2  
EC#: 231-633-2  
Index#: 015-011-00-6  
REACH reg.#: -  
Concentration (W/W):  
1 - 5 %

Danger:  
1272/2008/EC: Skin Corr. 1B; H314.

##### Enzymatic protein (by-product, not otherwise specified)

CAS#: -  
EC#: -  
Index#: -  
REACH reg.#: -  
Concentration (W/W):  
< 0.2 %

Danger:  
1272/2008/EC: Resp. Sens. 1; H334.

##### Cellulase

CAS#: 9012-54-8  
EC#: 232-734-4  
Index #: 647-002-00-3  
REACH reg.#: -  
Concentration (W/W):  
< 0.2 %

Danger:  
1272/2008/EC: Resp. Sens. 1; H334.

**Full text of H- phrase(s): see section 16.**

## SECTION 4: First aid measures

### Description of first aid measures

**General information:**

**Trade name:** CANNAZYM

Remove victim from danger zone and place in lying position.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Remove immediately all contaminated clothing.

Substance is harmful to tissue after continuous contact. Rinsing immediately following exposure can limit injury.

**Inhalation:**

Remove to fresh air.

If the victim is not breathing, apply artificial respiration.

**Skin contact:**

Immediately wash with plenty of water and soap.

**Eye contact:**

Remove contact lenses, if present, and immediately rinse eyes while holding eyelids open for a sufficient period of time (at least 15 minutes) with lukewarm water. Help the victim with the rinsing process. Do not use neutralizing liquids. Then immediately consult a physician/ophthalmologist.

**Ingestion:**

Rinse mouth immediately with water (if conscious), and then drink plenty of water. Do not induce vomiting (only under the supervision of a physician) and immediately consult a physician or take victim to hospital (show physician packaging, label or SDS). Place unconscious person on the side in the recovery position. Loosen tight clothing such as a shirt collar, tie, belt or waistband. Keep at rest.

**Most important symptoms and effects, both acute and delayed**

**Inhalation:**

Exposure to vapour concentrations of component dusts higher than the MAC value can be harmful to the health. Potential health effects include: burning sensation, coughing, asthmatic symptoms, difficulty breathing, loss of consciousness. Effects may be delayed. Prolonged inhalation of aerosol and/or mist may cause pneumonia and/or lung oedema, but only after initial corrosive effects on the mucous membranes of the eyes and/or upper airways have become manifest.

**Skin contact:**

Slightly irritating to the skin. Signs and symptoms of skin irritation may include redness and a yellow discolouration. Contains phosphoric acid which may be absorbed through the skin.

**Eye contact:**

May cause irreversible damage to the eyes. Redness. Pain.

**Ingestion:**

Throat irritation. Stomach ache. Irritation of mucous membranes.

**Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment and supportive therapy as prescribed.

## SECTION 5: Firefighting measures

### Extinguishing media

**Suitable extinguishing media:**

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water spray.

Foam.

Sand.

Adapt extinguishing measures to suit the environment.

**Unsuitable extinguishing media:**

Powerful water jet.

### Special hazards arising from the substance or mixture

During heating or in case of fire, poisonous gases may be produced.

May be released in event of fire:

Nitrogen oxides (NO<sub>x</sub>).

Phosphorous oxides.

### Advice for firefighters

**Special protective clothing:**

Wear self-contained breathing apparatus.

**Trade name:** CANNAZYM

### Other information

No specific requirements.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Ensure sufficient ventilation.

Wear personal protective equipment.

### Environmental precautions

Do not allow large quantities of product to reach sewage/surface water/groundwater in concentrated form.  
Notify competent authorities in case of release of large quantities into the environment.

### Methods and material for containment and cleaning up

Soak up immediately with absorbent material (sand, dry earth).

Recycle, if possible.

Collect in suitable containers for disposal.

Then flush away residue with plenty of water.

### Reference to other sections

Information regarding safe handling – see section 7.

Information regarding personal protective equipment – see section 8.

Information regarding disposal – see section 13.

## SECTION 7: Handling and storage

### Handling

#### Precautions for safe handling:

Provide adequate ventilation/extraction in the workplace.

Open and handle package with care.

Avoid formation of aerosols.

#### Information about fire - and explosion protection:

No specific requirements.

### Conditions for safe storage, including any incompatibilities

#### Storage:

Close containers after each use.

Handle empty containers as if they were full.

#### Requirements to be met by storerooms and receptacles:

Keep only in the original container.

Keep in a dark place.

Store in a frost-free environment.

Protect from heat and direct sunlight.

Suitable packaging material: Polyethylene.

Suitable material for tanks and pipelines: Stainless steel, PVC.

#### Information about storage in one common storage facility:

Install partitions in the drip tray to prevent acidic and alkaline fertilisers from coming into contact with one other.

#### Further information about storage conditions:

Recommended storage temperature 10 - 30 °C.

### Specific end use(s)

No further relevant information available.

Trade name: **CANNAZYM**

## SECTION 8: Exposure controls/personal protection

### Control parameters

Ingredients with limit values that require monitoring at the workplace:		
Product information: 7664-38-2	Phosphoric acid	
TWA 8 hours	mg/m <sup>3</sup> (ppm)	1 (1.3) 2000/39/EC
TWA 15 min.		2 (2.6) 2000/39/EC

Dangerous ingredients with DN(M)EL:				
Product information: 7664-38-2	Exposure	Value	Unit	Population / Effects
Phosphoric acid				
DN(M)EL	Short-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Short-term inhalation	-	mg/m <sup>3</sup>	Workers Local
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Workers Systemic
DN(M)EL	Long-term inhalation	-	mg/m <sup>3</sup>	Workers Systemic
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Long-term inhalation	2.92	mg/m <sup>3</sup>	Workers Local
DN(M)EL	Short-term dermal	-	mg/kg bw/day	General population Local
DN(M)EL	Short-term inhalation	-	mg/m <sup>3</sup>	General population Local
DN(M)EL	Long-term dermal	-	mg/kg bw/day	General population Systemic
DN(M)EL	Long-term inhalation	-	mg/m <sup>3</sup>	General population Systemic
DN(M)EL	Long-term oral	-	mg/kg bw/day	General population Systemic
DN(M)EL	Long-term dermal	-	mg/kg bw/day	General population Local
DN(M)EL	Long-term inhalation	0.73	mg/m <sup>3</sup>	General population Local

### Exposure controls

#### Personal protective equipment:

Remove immediately all contaminated clothing.  
Store protective clothing separately.  
Avoid contact with the eyes and skin.

#### General protective and hygienic measures:

Keep away from foodstuffs and beverages.  
Do not eat, drink or smoke when using this product.  
The usual precautionary measures are to be adhered to when handling chemicals.

#### Respiratory protection:

In case of insufficient ventilation wear suitable respiratory equipment.



**Hand protection:**  
Safety gloves.

**Trade name:** CANNAZYM

The glove material (EN374) has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Glove material**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Penetration time of glove material**

The exact break through time can be obtained from the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Tight fitting safety goggles. Eye shower. Full facemask with splash/spatter risk.



**Body protection:**

Wear suitable protective work clothing (in case of splash risk).

**Measuring procedures:**

In order to establish compliance with an exposure limit and to establish that exposure is properly controlled, it may be necessary to determine the concentration of the substances in the inhalation zone or in the general workspace.

**Environmental exposure controls:**

Leakage of the material and concentrated solution must be stopped.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

**General information**

**Appearance**

<b>Form:</b>	Liquid.
<b>Colour:</b>	Yellow.
<b>Odour:</b>	Light odour.
<b>Odour threshold:</b>	Not determined.

<b>pH-value:</b>	3.9-4.1
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**Change in condition**

<b>Melting point/melting range:</b>	Not determined.
<b>Boiling point/boiling range:</b>	Not determined.

<b>Flash point:</b>	> 93 °C.
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<b>Flammability (solid, gas):</b>	Not applicable.
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<b>Auto-ignition temperature:</b>	Not determined.
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<b>Explosion hazard:</b>	Not determined.
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**Explosive limits**

<b>Lower:</b>	Not determined.
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<b>Upper:</b>	Not determined.
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<b>Vapour pressure:</b>	Not determined.
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<b>Relative density:</b>	1.023 (water = 1).
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<b>Vapour density:</b>	Not determined.
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<b>Evaporation rate:</b>	Not determined.
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<b>Solubility in/miscibility with water:</b>	Fully.
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<b>Partition coefficient: n-octanol/water:</b>	Not determined.
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<b>Viscosity</b>	
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<b>Dynamic:</b>	Not determined.
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<b>Kinematic:</b>	Not determined.
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<b>Other information</b>	No further relevant information available.
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**Trade name:** CANNAZYM

## SECTION 10: Stability and reactivity

### Reactivity

#### Chemical stability

The product is stable if stored and handled as prescribed.

#### Thermal decomposition/Conditions to be avoided:

The product is stable if used as prescribed. Avoid storing at high temperatures (> 30 °C) to prevent degradation of the material or pressure build-up. Avoid low temperatures (< 10 °C) to prevent crystallization from occurring.

Material is susceptible to frost.

### Possibility of hazardous reactions

Contact with strong reducing agents (and bases).

### Conditions to avoid

Avoid heat, sparks, open flames, and other sources of ignition. Prevent evaporation in a non-ventilated environment. Protect against heat and direct sunlight. Protect against frost.

### Incompatible materials

Mildly corrosive for metals.

### Hazardous decomposition products

No hazardous decomposition products are formed if stored under normal conditions. In case of heating or fire, irritating and/or toxic vapours such as nitrogen oxides and phosphorous oxides may be released.

## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity from the components:

#### LD/LC50 values relevant for classification:

Product information: 7664-38-2	Phosphoric acid	
Oral	LD50	2000 mg/kg (rat) (OECD 423)
Inhalation	LC50 (1 h)	3846 mg/l (rat) (OECD 403)
Dermal	LD50	2740 mg/kg (rabbit)

**The following health risk assessment is based on an assessment of the various ingredients in the product.**

#### Primary irritant effect:

##### on the skin:

Irritates the skin and the mucous membranes.

##### on the eye:

Irritant / corrosive effect.

#### Germ cell mutagenicity:

Not classified.

#### Reproductive and developmental toxicity:

Not classified.

#### Sensitisation:

No sensitising effects known.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

Not classified.

#### Other information:

No further relevant information available.

Trade name: **CANNAZYM**

## SECTION 12: Ecological information

### Toxicology information

#### Ecotoxicity from the components:

Aquatic toxicity:		
Product information: 7664-38-2	Phosphoric acid	
Fish	LC100 (96 h)	3 - 3.25 mg/l (bluegill sunfish)
Water flea	EC50 (96 h)	> 100 mg/l (daphnia magna)
Algae	EC50	-
Bacteria	EC50	-

The following ecological risk assessment is based on an assessment of the various ingredients in the product.

#### Persistence and degradability

Partially inorganic and presumed to be partially biodegradable over the long-term.

#### Behaviour in environmental compartments

##### Bioaccumulative potential

Bioaccumulation in organisms is not expected.

##### Mobility in soil

No further relevant information available.

#### Further ecological information

##### General information:

Water hazard class 1 (German regulation) (Self-assessment): slightly hazardous to water. Do not discharge undiluted product into groundwater, surface water or sewage system.

#### Results of PBT and vPvB assessment

The mixture does not meet all of the assessment criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

#### Other adverse effects

No data.

## SECTION 13: Disposal considerations

### Waste treatment methods

#### Recommendation:

May be brought to a supervised incineration plant in compliance with local regulations.

#### EC Regulation for Disposal of Waste (EWC):

06 10 02\* WASTES FROM INORGANIC CHEMICAL PROCESSES, wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture; waste containing dangerous substances.

### Uncleaned packaging

#### Recommendation:

Disposal must be made according to official regulations. Empty the packaging with care. Do not contaminate soil, water or environment with the waste container. Comply with local regulations with regard to the recovery or disposal of waste.



Trade name: **CANNAZYM**

### SECTION 14: Transport information

#### Land transport ADR/RID (cross-border)

ADR/GGVSEB class: Not a dangerous good according to the transport regulations.  
Hazard identification number: -  
UN number: -  
Packing group: -  
Label: -  
Special marking: -  
Proper shipping name from the UN Model Regulations: -  
Tunnel restriction code: -

#### Inland shipping ADN/ADR

ADN/R-class: -  
UN number: -  
Subsidiary risk  
Environmental hazards: -  
CMR properties: -  
Buoyancy: -

#### Maritime transport IMDG

IMDG-class: -  
UN number: -  
Label: -  
Packing group: -  
EMS number: -  
Marine pollutant: -  
Proper technical name: -

#### Air transport ICAO-TI and IATA-DGR

ICAO/IATA-class: -  
UN number: -  
Label: -  
Packing group: -  
Proper technical name: -

#### Environmental hazards

No.

#### Special precautions for user

None.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No further relevant information available.

### SECTION 15: Regulatory information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

##### National regulations:

*Agricultural and Veterinary Chemicals Act 1988* (Commonwealth)- Australia  
New Zealand Inventory of Chemicals (NZIoC)

##### EU regulations and directives which affect this mixture (not yet directly or indirectly mentioned):

Directive 89/686/EEC Personal protective equipment.  
Directive 98/24/EC Risks related to chemical agents at work.

**Trade name: CANNAZYM**

Regulation 2003/2003/EC Concerning fertilisers.

### Chemical safety assessment

A chemical safety assessment has not been carried out.

## SECTION 16: Other information

This information is based on the current state of our knowledge. It should not be construed as any guarantee of product characteristics, nor does it establish a legally valid contractual relationship.

### List of relevant H- phrases from sections 2 and 3

H314 Causes severe skin burns and eye damage.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### Document history

**Printed on:** 23 March 2021.  
**Previous edition:** 06.04.2016 v1.0  
**Version:** 1.01.

### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
P: Marine pollutant  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
EC50: Half maximal effective concentration  
HSNO: Hazardous Substances and New Organisms Act 1996  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
OEL: Occupational Exposure Limit  
NOEC: No Observed Effect Concentration  
NZIoC: New Zealand Inventory of Chemicals  
vPvB: Very Persistent and Very Bioaccumulative  
PBT: Persistent, Bioaccumulative and Toxic substance  
EWC: European Waste Catalogue  
TWA: Time-Weighted Average  
DNEL: Derived No-Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No-Effect Concentration