



**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: CANNA TERRA FLORES

Synonym(s): -

Relevant identified uses of the substance or mixture and uses advised

against: Liquid NPK 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

Eye Irrit. 2 H319

Label elements and precautionary statement Hazards pictograms:



**Signal word:** Warning. **Hazard statements:** 





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H319 Causes serious eye irritation.

**Precautions:** 

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P264 Wash hands thoroughly after handling this product.

P273 Avoid release to the environment.

P280 Wear eve protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Hazard-determining components for labelling: Ammonium nitrate.

#### Other hazards

Void.

#### 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, potassium nitrate, ammonium nitrate, magnesium nitrate,

nitric acid and phosphoric acid.

### **Hazardous ingredients**

Potassium nitrate

CAS#: 7757-79-1 EC#: 231-818-8

Index#: REACH reg.#: Concentration (W/W):

5 - 10 %

Danger:

1272/2008/EC: Ox. Sol. 2; H272.

#### **Ammonium nitrate**

6484-52-2 CAS#: EC#: 229-347-8

Index#: REACH reg.#: Concentration (W/W): 5 - 10 %

Danger:

1272/2008/EC: Ox. Sol. 2; H272 - Eye Irrit. 2; H319.

### Magnesium nitrate

CAS#: 10377-60-3 EC#: 233-826-7

Index#: REACH reg.#: Concentration (W/W): 1 - 5 %

Danger:

1272/2008/EC: Ox. Sol. 2; H272.





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Nitric acid 38 %

CAS#: 7697-37-2 EC#: 231-714-2 Index#: 007-004-00-1

REACH reg.#: Concentration (W/W):
1 - 5 %

Danger:

1272/2008/EC: Ox. Liq. 3; H272 - Skin Corr. 1A; H314.

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.

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

# **SECTION 4: First aid measures**

#### **Description of first aid measures**

#### General information:

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. Seek professional medical treatment in case of persistent complaints.

#### 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. 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, difficulty breathing, loss of consciousness. Effects may be delayed. 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. Corrosive. Redness.

#### Ingestion:

Stomach ache. Irritation of gastro-intestinal mucosa.





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

Symptomatic treatment and supportive therapy as prescribed. Symptomatic treatment (decontamination, control of vital functions). No specific antidote known. To prevent pulmonary oedema from severe exposure: corticosteroid-containing dosing aerosol.

# **SECTION 5: Firefighting measures**

# **Extinguishing media**

# Suitable extinguishing media:

CO2, 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 (NOx).

Ammonia (NH3).

Phosphorus oxides.

#### Advice for firefighters

Special protective clothing:

Wear self-contained breathing apparatus.

#### Other information

Cool exposed containers with water spray.

Collect contaminated extinguishing water separately, do not allow to reach sewage.

# **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

Ensure sufficient ventilation.

Wear personal protective equipment.

Keep dried material away from sources of ignition.

Keep unprotected persons at a distance.

#### **Environmental precautions**

Do not allow large quantities to reach sewage system/surface water/groundwater.

Prevent release in effluents, wells or cellars.

### Methods and material for containment and cleaning up

Soak up immediately with absorbent material (sand, diatomaceous earth, acid binder, universal binder, sawdust). Dispose of absorbed material according to regulations.

Remove contaminated material as waste according to section 13.

#### 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.



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# **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.

In case of expert use, no special measures are required.

#### Information regarding fire and explosion risk:

Keep away from ignition sources - do not smoke.

# Conditions for safe storage, including any incompatibilities

#### Storage:

Rinse/clean equipment prior to maintenance activities.

Ensure the safety of the tank installation to limit risks of exposure.

Regularly check the installation for correct operation.

Provide a liquid-resistant floor or store materials in packaging in acid-proof drip-trays.

Make the content of the dip-tray equal to the content of the largest package plus 10% of the other packages.

Restrict access to the storage location to authorised personnel in case of risk of exposure.

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.

#### Other information regarding storage requirements:

Keep tanks / packing hermetically closed.

Keep in a cool place.

Recommended storage temperature 10 - 30 °C.

# Specific end use(s)

No further relevant information available.

# **SECTION 8: Exposure controls/personal protection**

# Control parameters

Control parameters				
Ingredients with limit values that require monitoring at the workplace:				
Product information: 7757-79-1	Potassium nitrate	e		
TWA 8 h	mg/m³ (ppm)	5 (-) inhalable dust		
Product information: 7697-37-2	Nitric acid			
TWA 15 min.	mg/m³ (ppm)	2.6 (1) 2006/15/EC		
Product information: 7664-38-2	Phosphoric acid			
TWA 8 h	mg/m³ (ppm)	1 (1.3) 2000/39/EC		
TWA 15 min.		2 (2.6) 2000/39/EC		

Dangerous ingredients with DN(N	Λ)EL:			
Product information: 7757-79-1	Exposure	Value	Unit	Population /
Potassium nitrate				Effects
DN(M)EL	Short-term	-	mg/kg bw/day	Workers
	dermal			Local



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DN(M)EL	Short-term	-	mg/m³	Workers
	inhalation			Local
DN(M)EL	Long-term	20.8	mg/kg bw/day	Workers
	dermal			Systemic
DN(M)EL	Long-term	36.7	mg/m³	Workers
	inhalation			Systemic
DN(M)EL	Long-term	-	mg/kg bw/day	Workers
	dermal			Local
DN(M)EL	Long-term	-	mg/m³	Workers
	inhalation			Local
DN(M)EL	Short-term	-	mg/kg bw/day	General
	dermal			population
				Local
DN(M)EL	Short-term	-	mg/m³	General
	inhalation			population
				Local
DN(M)EL	Long-term	12.5	mg/kg bw/day	General
	dermal			population
				Systemic
DN(M)EL	Long-term	10.9	mg/m³	General
	inhalation			population
				Systemic
DN(M)EL	Long-term	12.5	mg/kg bw/day	General
	oral			population
				Systemic
DN(M)EL	Long-term	-	mg/kg bw/day	General
	dermal			population
				Local
DN(M)EL	Long-term	-	mg/m³	General
	inhalation			population
				Local

Dangerous ingredients with DN(M)EL:				
Product information: 6484-52-2 Ammonium nitrate	Exposure	Value	Unit	Population / Effects
DN(M)EL	Short-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Short-term inhalation	-	mg/m³	Workers Local
DN(M)EL	Long-term dermal	21.3	mg/kg bw/day	Workers Systemic
DN(M)EL	Long-term inhalation	37.6	mg/m³	Workers Systemic
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Long-term inhalation	-	mg/m³	Workers Local
DN(M)EL	Short-term dermal	-	mg/kg bw/day	General population Local
DN(M)EL	Short-term inhalation	-	mg/m³	General population Local
DN(M)EL	Long-term dermal	12.8	mg/kg bw/day	General population Systemic
DN(M)EL	Long-term inhalation	11.1	mg/m³	General population Systemic
DN(M)EL	Long-term oral	12.8	mg/kg bw/day	General population Systemic



DN(M)EL

DN(M)EL

DN(M)EL

DN(M)EL

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N(M)EL	Long-term dermal	-	mg/kg bw/day	General population Local
DN(M)EL	Long-term inhalation	-	mg/m³	General population Local
Dangerous ingredients with DN(N	M)EL:			
Product information: 10377-60-3 Magnesium nitrate	Exposure	Value	Unit	Population / Effects
DN(M)EL	Short-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Short-term inhalation	-	mg/m³	Workers Local
DN(M)EL	Long-term dermal	20.8	mg/kg bw/day	Workers Systemic
DN(M)EL	Long-term inhalation	36.7	mg/m³	Workers Systemic
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Long-term inhalation	-	mg/m³	Workers Local
DN(M)EL	Short-term dermal	-	mg/kg bw/day	General population Local
DN(M)EL	Short-term inhalation	-	mg/m³	General population Local
DN(M)EL	Long-term dermal	12.5	mg/kg bw/day	General population Systemic
DN(M)EL	Long-term inhalation	10.9	mg/m³	General population Systemic
DN(M)EL	Long-term oral	12.5	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	-	mg/m³	General population Local
Dangerous ingredients with DN(N	M)FI:			
Product information: 7697-37-2 Nitric acid	Exposure	Value	Unit	Population / Effects
DN(M)EL	Short-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Short-term inhalation	2.6	mg/m³	Workers Local
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Workers Systemic
DN/M)EI	Long torm	1.2	ma/m³	Workers

Long-term

inhalation

Long-term

Long-term

inhalation

Short-term

dermal

dermal

1.3

mg/m<sup>3</sup>

mg/m<sup>3</sup>

mg/kg bw/day

mg/kg bw/day

Workers

Systemic

Workers

Workers

General

population

Local

Local



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				Local
DN(M)EL	Short-term inhalation	1.3	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	0.65	mg/m³	General population Local

Dangerous ingredients with DN(I	M)EL:			
Product information: 7664-38-2 Phosphoric acid	Exposure	Value	Unit	Population / Effects
DN(M)EL	Short-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Short-term inhalation	-	mg/m³	Workers Local
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Workers Systemic
DN(M)EL	Long-term inhalation	-	mg/m³	Workers Systemic
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Long-term inhalation	2.92	mg/m³	Workers Local
DN(M)EL	Short-term dermal	-	mg/kg bw/day	General population Local
DN(M)EL	Short-term inhalation	-	mg/m³	General population Local
DN(M)EL	Long-term dermal	-	mg/kg bw/day	General population Systemic
DN(M)EL	Long-term inhalation	-	mg/m³	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/m³	General population Local

Dangerous ingredients with PNEC	:		
Product information: 7757-79-1	Value	Unit	Compartment
Potassium nitrate			
PNEC	0.45	mg/l	Fresh water





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PNEC	0.045	mg/l	Marine water
PNEC	4.5	mg/l	Intermittent releases
PNEC	18	mg/l	STP (sewage treatment plant)
PNEC	-	mg/kg dwt	Sediment fresh water
PNEC	-	mg/kg dwt	Sediment marine water
PNEC	-	mg/kg wwt	Soil
PNEC	No bio- accumulation potential	mg/l	Oral

Dangerous ingredients with PNE	C:		
Product information: 6484-52-2	Value	Unit	Compartment
Ammonium nitrate			
PNEC	0.45	mg/l	Fresh water
PNEC	0.045	mg/l	Marine water
PNEC	4.5	mg/l	Intermittent releases
PNEC	18	mg/l	STP (sewage treatment plant)
PNEC	-	mg/kg dwt	Sediment fresh water
PNEC	-	mg/kg dwt	Sediment marine water
PNEC	-	mg/kg wwt	Soil
PNEC	No bio-	mg/l	Oral
	accumulation		
	potential		

Dangerous ingredients with PNEC	<b>:</b>		
Product information: 10377-60-3	Value	Unit	Compartment
Magnesium nitrate			
PNEC	0.45	mg/l	Fresh water
PNEC	0.045	mg/l	Marine water
PNEC	4.5	mg/l	Intermittent releases
PNEC	18	mg/l	STP (sewage treatment plant)
PNEC	-	mg/kg dwt	Sediment fresh water
PNEC	-	mg/kg dwt	Sediment marine water
PNEC	-	mg/kg wwt	Soil
PNEC	No bio-	mg/l	Oral (foodstuffs)
	accumulation		
	potential		

#### **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 food and drink.

Do not eat, drink or smoke while handling this product.

The customary precautionary measures for handling chemicals are to be observed.

#### Respiratory protection:

If the workplace limit value cannot be achieved with engineering controls, workers should wear a combination filter for short-term exposures (e.g. gas filter for acid inorganic gases/vapours, EN 14387 type E).

#### Hand protection:



Wear safety gloves.

The glove material (EN374) must be impermeable and resistant to the product / substance / preparation. When choosing glove material, consider breakthrough times, diffusion rates and degradation.

#### Glove material

The selection of appropriate gloves does not only depend on the material but also on other quality features, and may vary from manufacturer to manufacturer.





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#### Penetration time of glove material

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

#### Eye protection:

Use close-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 control measures:**

Do not discharge in surface water in concentrated form.

# **SECTION 9: Physical and chemical properties**

Odour: Slight Odour threshold: Not de pH-value: 1.5-1.  Change in condition Melting point/melting range: Not de Boiling point/boiling range: Not de Flash point: > 93 ° Flammability (solid, gas): Not ap Auto-ignition temperature: Not de Explosion hazard: Not de Explosive limits Lower: Not de	
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Lower: Not de	etermined.
1 = 0 11 0 11	
	etermined.
Upper: Not de	etermined.
Tupour processor	etermined.
Relative density: 1.17 (	water = 1).
Vapour density: Not de	etermined.
Evaporation rate: Not de	etermined.
Solubility in/miscibility with	
water: Fully.	
Partition coefficient:	
n-octanol/water: Not de	etermined.
Viscosity	
Dynamic: Not de	etermined.
Kinematic: Not de	etermined.
Other information No fur	





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# **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.

#### 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 to brass. Mildly corrosive to galvanized metal.

# Hazardous decomposition products

No hazardous decomposition products are formed if stored under normal conditions. Upon heating or combustion, irritating or toxic fumes such as nitrogen oxides, ammonia and phosphorus 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: 7757-79-1	Potassium nitrate		
Oral	LD50	> 2000 mg/kg (rat) (OECD 425) 3750 mg/kg (rat) 1901 mg/kg (rabbit)	
Inhalation	LC50 (4 h)	0.527 mg/l (rat) (OECD 403, inhalable dust)	
Dermal	LD50	> 5000 mg/kg (rat) (OECD 402)	
Product information: 6484-52-2	Ammonium nitrate		
Oral	LD50	2950 mg/kg (rat) (OECD 401)	
Inhalation	LC50 (4 h)	> 88.8 mg/l (rat) (OECD 403)	
Dermal	LD50	> 5000 mg/kg (rat) (OECD 402)	
Product information: 10377-60-3	Magnesium nitrate		
Oral	LD50	> 5000 mg/kg (rat) (OECD 423)	
Inhalation	LC50 (4 h)	-	
Dermal	LD50	> 5000 mg/kg (rat) (OECD 402)	
Product information: 7697-37-2	Nitric acid		
Oral	LD50	430 mg/kg (human)	
Inhalation	LC50 (4 h)	> 80 mg/l (rat) (OECD 403)	
Dermal	LD50	-	
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.





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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.

# **SECTION 12: Ecological information**

# **Toxicology information**

Ecotoxicity from the components:

Aquatic toxicity:			
Product information: 7757-79-1	Potassium nitrate		
Fish	LC50 (96 h)	> 98.9 mg/l (OECD 203)	
		180 - 200 mg/l (poecilia reticulata)	
Water flea (daphnia magna)	EC50 (48 h)	490 mg/l (daphnia magna)	
Algae	EC50	-	
Bacteria	EC50	-	
Product information: 6484-52-2	Ammonium nitrate		
Fish	LC50 (48 h)	447 mg/l (95% CI 391-513)	
Water flea (daphnia magna)	EC50	-	
Algae	EC50	-	
Bacteria	EC50	-	
Product information: 10377-60-3	Magnesium nitrate		
Fish	LC50 (96 h)	191 mg/l (95% CI 391-513)	
Water flea (daphnia magna)	EC50 (96 h)	490 mg/l (daphnia magna)	
Algae	EC50	-	
Bacteria	EC50	-	
Product information: 7697-37-2	Nitric acid		
Fish	LC100 (96 h)	3 - 3.5 mg/l (bluegill sunfish)	
	LC50 (96 h)	> 100 mg/l	
Water flea (daphnia magna)	EC50 (96 h)	490 mg/l (daphnia magna)	
	EC50 (48 h)	180 mg/l (daphnia magna)	
Algae	EC50	-	
Bacteria	EC50	-	
Product information: 7664-38-2	Phosphoric acid		
Fish	LC100 (96 h)	3 - 3.25 mg/l (bluegill sunfish)	
Water flea (daphnia magna)	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.



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Thé solution for growth and bloom

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### 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

Contains substances that contribute to eutrophication: Nitrates.

# **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.

# **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:** 





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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

Fertilisers (Subsidiary Hazard) Group Standard 2006. Approval Number HSR002571 – New Zealand 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.

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

H272 May intensify fire; oxidiser.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

# **Document history**

Printed on: 23 March 2021.



# Safety Data Sheet

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Version:

### Abbreviations and acronyms:

Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) RID:

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)

Marine pollutant:

Globally Harmonized System of Classification and Labelling of Chemicals Chemical Abstracts Service (division of the American Chemical Society) GHS: CAS:

EC50: Half maximal effective concentration

HSNO Hazardous Substances and New Organisms Act 1996

LC50: LD50: OEL: Lethal concentration, 50 percent Lethal dose, 50 percent
Lethal dose, 50 percent
Occupational Exposure Limit
No Observed Effect Concentration
New Zealand Inventory of Chemicals NOEC: NZIoC vPvB: Very Persistent and Very Bioaccumulative PBT Persistent, Bioaccumulative and Toxic substance

EWC: European Waste Catalogue TWA DNEL: Time-Weighted Average Derived No-Effect Level DMEL: PNEC: Derived Minimal Effect Level Predicted No-Effect Concentration