

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

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

Product identifier

Trade name: **CANNA CLASSIC VEGA B**
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, 3rd Revised Edition
Void.

Label elements and precautionary statement

Hazard pictograms:

-

Signal word: -

Hazard statements:

-

Precautions:

-

Hazard-determining components for labelling: -

Trade name: CANNA CLASSIC VEGA B

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, phosphoric acid and nitric acid.

Hazardous ingredients

Potassium nitrate

CAS#: 7757-79-1

EC#: 231-818-8

Index#: -

REACH reg.#: -

Content (W/W): 5 - 10 %

Danger:

1999/45/EC: O; R8.

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

Phosphoric acid 59%

CAS#: 7664-38-2

EC#: 231-633-2

Index#: 015-011-00-6

REACH reg.#: -

Content (W/W): 1 - 5 %

Danger:

1999/45/EC: C; R34.

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

Nitric acid 38%

CAS#: 7697-37-2

EC#: 231-714-2

Index#: 007-004-00-1

REACH reg.#: -

Content (W/W): 0.1 - 1 %

Danger:

1999/45/EC: O; R8 - C; R35.

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

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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 neutralising 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, 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:

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:

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 (NO_x).

Advice for firefighters

Special protective clothing:

Wear self-contained breathing apparatus.

Other information

No specific requirements.

Trade name: CANNA CLASSIC VEGA B

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 against 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 another.

Further information about storage conditions:

Recommended storage temperature 10 - 30 °C.

Specific end use(s)

No further relevant information available.

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SECTION 8: Exposure controls/personal protection

Control parameters

Ingredients with limit values that require monitoring at the workplace:		
Product information: 7757-79-1	Potassium nitrate	
TWA 8 hours	mg/m ³ (ppm)	5 (-) inhalable dust
Product information: 7664-38-2	Phosphoric acid	
TWA 8 hours	mg/m ³ (ppm)	1 (1.3) 2000/39/EC
TWA 15 min.		2 (2.6) 2000/39/EC
Product information: 7697-37-2	Nitric acid	
TWA 15 min.	mg/m ³ (ppm)	2.6 (1) 2006/15/EC

Hazardous ingredients with DN(M)EL:

Product information: 7757-79-1 Potassium 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/m ³	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/m ³	Workers Systemic
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Long-term inhalation	-	mg/m ³	Workers Local
DN(M)EL	Short-term dermal	-	mg/kg bw/day	General population Local
DN(M)EL	Short-term inhalation	-	mg/m ³	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/m ³	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/m ³	General population Local

Hazardous ingredients with DN(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/m ³	Workers Local
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Workers Systemic
DN(M)EL	Long-term	-	mg/m ³	Workers

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	inhalation			Systemic
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Long-term inhalation	2.92	mg/m ³	Workers Local
DN(M)EL	Short-term dermal	-	mg/kg bw/day	General population Local
DN(M)EL	Short-term inhalation	-	mg/m ³	General population Local
DN(M)EL	Long-term dermal	-	mg/kg bw/day	General population Systemic
DN(M)EL	Long-term inhalation	-	mg/m ³	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 ³	General population Local

Hazardous ingredients with DN(M)EL:

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/m ³	Workers Local
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Workers Systemic
DN(M)EL	Long-term inhalation	1.3	mg/m ³	Workers Systemic
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Long-term inhalation	-	mg/m ³	Workers Local
DN(M)EL	Short-term dermal	-	mg/kg bw/day	General population Local
DN(M)EL	Short-term inhalation	1.3	mg/m ³	General population Local
DN(M)EL	Long-term dermal	-	mg/kg bw/day	General population Systemic
DN(M)EL	Long-term inhalation	-	mg/m ³	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/m ³	General population

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Local

Hazardous ingredients with PNEC:

Product information: 7757-79-1 Potassium nitrate	Value	Unit	Compartment
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-accumulation potential	mg/l	Oral

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:

No specific requirements, normal room ventilation will suffice.

Hand protection:



Safety gloves.

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.

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SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

General information

Appearance

Form:	Liquid.
Colour:	Colourless.
Odour:	Sour.
Odour threshold:	Not determined.

pH-value	1.2-1.4
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Change in condition

Melting point/melting range:	Not determined.
Boiling point/boiling range:	Not determined.

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

Lower:	Not determined.
Upper:	Not determined.

Vapour pressure:	Not determined.
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Relative density:	1.098 (water = 1).
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Vapour density:	Not determined.
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Evaporation rate:	Not determined.
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Solubility in/miscibility with water:	Fully.
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Partition coefficient n-octanol/water:	Not determined.
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Viscosity

Dynamic:	Not determined.
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Kinematic:	Not determined.
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Other information	No further relevant information available.
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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:

No decomposition 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

Trade name: CANNA CLASSIC VEGA B

No hazardous decomposition products are formed if stored under normal conditions. In case of heating or combustion, irritating or poisonous vapours may be released such as nitrogen oxides.

SECTION 11: Toxicological information

Toxicology information

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: 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)
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	-

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.

to 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 u)	> 98.9 mg/l (OECD 203) 180 - 200 mg/l (poecilia reticulata)
Water flea	EC50 (48 u)	490 mg/l (daphnia magna)
Algae	EC50	-
Bacteria	EC50	-

Trade name: CANNA CLASSIC VEGA B

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	-
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	EC50 (48 h)	490 mg/l (daphnia magna, EPA/600/4-90/027)
	EC50 (48 h)	180 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

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.

Trade name: **CANNA CLASSIC VEGA B**

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: -
UN proper shipping name: -
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 shipping name: -

Air transport ICAO-TI and IATA-DGR

ICAO/IATA-class: -
UN number: -
Label: -
Packing group: -
Proper shipping 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.
Regulation 2003/2003/EC Concerning fertilisers.

Trade name: CANNA CLASSIC VEGA B

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.

Document history

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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