

SAFETY DATA SHEET

PRODUCT NAME: Vita K

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier:	Baileys Fertilisers	Other Name(s):	Liquid Potassium Carbonate
Address:	PO Box 261 Rockingham Western Australia 6968	Recommended use:	Liquid Fertiliser for fertigation.
Telephone:	(08) 9439 1688 (Mon – Fri: 8.00am – 5.00pm)	Product Code(s):	
Emergency Contact:	W.A. Poisons Information Centre on 131126		
Facsimile:	(08) 9439 1068		
Email:	baileys@baileysfertiliser.com.au		
Website:	baileysfertiliser.com.au		

2. HAZARD IDENTIFICATION

1/. GHS Classification

1/. Physical Hazards	2/. Health Hazards	3/. Environmental Hazards
-	Skin Corrosion / irritation Cat 2. Serious eye damage / irritation Cat 2. Specific Target organ Toxicity (single exposure) Cat 3.	-

2/. Signal Word:

WARNING

3/. Hazard Symbol:



4/. Hazard Statement:

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

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5/. Precautionary Statements:

Prevention	P265 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P271 Use only outdoors or in a well ventilated area.
Response	P312 Call a POISON CENTRE or doctor/physician if you feel unwell P362 Take off contaminated clothing and wash before reuse. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	P405 Store locked up. P403+P233 Store in a well-ventilated place. Keep container tightly closed.
Disposal	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Other name	CAS Number	Contents % w/w
Potassium Carbonate		584-08-7	45-49
Complex Carbohydrates			<1
Water		7732-18-5	45-49

4. FIRST AID MEASURES

- 1/. Eye Contact:** Immediately lift eyelid and flush eyes with flowing water and completely remove materials by lifting the upper and lower lids. Transport to hospital or doctor. Remove of contact lenses after an eye injury should only be undertaken by skilled personnel.
- 2/. Skin Contact:** Remove contaminated clothing and shoes immediately. Flush skin and hair with running water (and soap if available). Seek Medical attention in event of irritation.
- 3/. Inhalation:** If fumes of combustion materials are inhaled, move to fresh air. Go to where fresh air is available. If necessary provide first aid. (DRSABCD)
- 4/. Ingestion:** Rinse and wash mouth with water. If swallowed do not induce vomiting. Lay patient d down in recovery position. Get medical attention immediately.
- 5/.Chronic effects from short and long term exposure:**
May cause eye, skin or respiratory irritation when exposed. Long term exposure of high dust concentrations may cause lung tissue damage. Ingestion may result in vomiting and severe digestive system irritation or burns. Inhalation may cause respiratory irritation
Eye and/or Skin contact may cause irritation and caustic like effects, analogous to potassium hydroxide.
- 6/. First Aid Treatment and note to physician.**
Treatment may vary depending on incident specifics and victim's condition.

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5. FIRE FIGHTING MEASURES

Flammability:	Non flammable.
Extinguishing Media:	Dry powder, foam and carbon dioxide extinguisher. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire.
Fire/Explosion Hazard:	May decompose, emitting toxic fumes in a fire. Remain upwind and notify those downwind of hazard.
Hazchem Code:	Not applicable.

6. ACCIDENTAL RELEASE MEASURES

Spills and Disposal:	Use absorbent material to absorb liquid spills then carefully sweep up and shovel into suitable containers for reuse/recycle or disposal at an approved waste disposal site. Avoid runoff of spilt material into soils, waterways or drains.
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7. HANDLING AND STORAGE

Safe Handling:	Wear appropriate PPE (refer to section 8). Use in a well ventilated area. Do not consume food or drink or smoke while handling. Wash hands with soap and water after handling
Storage and Transport:	Store in original container in a cool, dry, well-ventilated area, away from acidic materials. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standard:	Time Weighted Average (TWA): 10 mg/m ³ Short Term Exposure Limits (STEL): Not set.
Biological Limit Values:	No biological limit allocated.
Engineering Controls:	Use only in a well ventilated area and manage dust levels.
Personal Protective Equipment:	Wear gloves, safety boots, protective clothing and safety glasses with side shields. Use a class P1 respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

• Appearance:	Dark brown liquid
• Specific gravity:	Approximately 1.5.
• Odour:	Minimal.
• pH:	13.0
• Boiling Point:	Not available.
• Melting Point:	Not available.
• Vapour pressure:	Negligible at ambient temperatures.
• Flash point:	Not flammable.
• Flammability limits:	Not flammable.
• Solubility in water:	Mostly easily soluble in water.
• Other:	None.

10. STABILITY AND REACTIVITY

Chemical Stability:	Material is stable under normal storage and handling conditions.
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Conditions to avoid: Extreme heat.
Incompatible materials: Incompatible with oxidizing agents, acids, chlorates and nitrates.
Decomposition products: May evolve carbon dioxide gas when heated to decomposition.
Hazardous reactions: Hazardous polymerisation reactions will not occur.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this SDS and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Product Toxicity data:

LD50 Oral	LD50 Dermal	LC50 Inhalation
1870 mg/kg (Rat)	>2000 mg/kg (Rabbit)	>4.96 mg/l (rat/4.5hr)

Ingestion: **Category 4.** Ingestion of this material may cause oral, esophageal, glottis redness, irritation, ulceration, edema, and stomach and intestinal irritation and burns. Ingestion of large quantities may cause ulceration, vomiting, shock and death.

Eye contact: **Category 2A.** Exposure may cause severe irritation and redness to the eye lids, conjunctiva. Untreated, prolonged eye contact can cause permanent and severe eye damage.

Skin contact: **Category 1B.** Exposure to skin may cause redness, irritation, burning sensation, swelling, blister formation, first, second or third degree burns.

Inhalation: **Category 4.** Inhalation of this material may cause upper airway irritation, cough, redness of mouth and upper airways.

Sensitization hazard: Not classified as a skin sensitizer.

Long Term Effects: No information available for the product.

Carcinogenicity: Not classified as a carcinogen.

Specific target organ toxicity. Category 3 – Respiratory Tract Irritation.

Mutagenic Data: Not classified as a mutagen.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity: Rainbow trout LC50 = 68 mg/l 96hrs; Bluegill sunfish LC50 = 230 mg/L 96 hrs.

Fish Toxicity: LC50 Bluegill sunfish: 230 mg/L (96 hr)
 LC50 Rainbow trout: 68 mg/L (96hr)
 LC50 Fathead minnow: 940 mg/l (24hr)
 LC50 Fathead minnow: 820 mg/L (48hr)
 LC50 Fathead minnow: <510 mg/L (96hr)

Invertebrate Toxicity: EC Daphnia Magna: 430mg/L (48hr) hard water.
 EC50 Daphni pulex: 200mg/L (48hr) soft water.

Other toxicity: LC50 Ceriodaphnia dubia (water flea): 630 mg/L (24hr)
 LC50 Ceriodaphnia dubia (water flea): 630mg/L (48hr)
 LC50 Daphnia magna (water flea): 670mg/l (24hr)
 LC50 Daphnia magna (water flea): 650mg/l (48hr)

Additional: May increase pH of waterways and adversely affect aquatic life.

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13. DISPOSAL CONSIDERATIONS

Waste from material:	Reuse or reprocess if possible. May be subject to disposal regulations. Check solution pH to determine disposal restrictions. Dispose in accordance with all applicable regulations.
Container Management:	Dispose of container in accordance with applicable local, regional, national and/or international regulations. Container rinsate must be disposed of in accordance with applicable regulations.

14. TRANSPORT INFORMATION

Un Number.	UN1760	UN Proper Shipping Name.	Corrosive liquids n o s (Potassium Carbonate)	Class and Subsidiary Risk(s)	8
Packing Group	11	Special precautions for user.	None	Hazchem code.	

15. REGULATORY INFORMATION

AICS All chemicals listed on the Australian Inventory of Chemical Substances (ACIS).

16. OTHER INFORMATION

Baileys Fertilisers has taken all due care to provide accurate and up-to-date information but does not provide a warranty concerning this information. It is the users' responsibility to assess the circumstances of use and assess the risks in any given situation.