

Revision date: 26-Aug-2024

SAFETY DATA SHEET

Category 2

Revision Number 2

Section 1: Identification	
Product identifier	
Product Name	FOLIMAC K
Product Code(s)	00000053757
Other means of identification	
Recommended use of the chemical	and restrictions on use
Recommended use	Fertiliser.
Uses advised against	No information available
Details of the supplier of the safety	data sheet
Supplier IXOM Operations Pty Ltd (Incorporate NZBN: 9429041465226 Street Address: 166 Totara Street Mt Maunganui South New Zealand	d in Australia)
Telephone Number: +64 9 368 2700 Facsimile: +64 9 368 2710	
Emergency telephone number	
Emergency Telephone	0 800 734 607 (ALL HOURS)
Please ensure you refer to the limitations of this	Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.
Section 2: Hazard identific	ation
Not classified as a Dangerous Good u	inder NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.

Classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020. **<u>GHS Classification</u>**

Reproductive toxicity

Label elements



Signal word Warning Hazard statements H361d - Suspected of damaging the unborn child

Precautionary Statements - Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

Other hazards which do not result in classification

No information available.

Section 3: Composition/information on ingredients

Chemical name	CAS No.	Weight-%
Dipotassium octaborate	12008-39-8	1-<2
Non hazardous component(s)	-	to 100

Section 4: First-aid measures

Description of first aid measures

General advice	For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.
Inhalation	Remove to fresh air. Call a physician if symptoms occur.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. Call a physician if symptoms occur.
Ingestion	Rinse mouth thoroughly with water. Drink 1 or 2 glasses of water. Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

- Symptoms No information available.
- Effects of Exposure No information available.

Indication of any immediate medical attention and special treatment needed

Note to physiciansSupportive care only is required for adult ingestion of less than a few grams of the product.
For ingestion of larger amounts, maintain fluid and electrolyte balance and maintain
adequate kidney function. Gastric lavage is only recommended for heavily exposed,
symptomatic patients in whom emesis has not emptied the stomach. Haemodialysis should

be reserved for patients with massive acute absorption, especially for patients with compromised renal function. Boron analyses of urine or blood are only useful for verifying exposure and are not useful for evaluating severity of poisoning or as a guide in treatment.

Section 5: Fire-fighting measures

Suitable Extinguishing Media

Suitable Extinguishing Media Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing media None known.

Specific hazards arising from the chemical

Specific hazards arising from the No information available. chemical

Special protective actions for fire-fighters

Special protective equipment and Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. **precautions for fire-fighters**

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.	
For emergency responders	Use personal protection recommended in Section 8.	
Environmental precautions		
Environmental precautions	See Section 12 for additional Ecological Information.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Use appropriate personal protective equipment (PPE). Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust.	
Precautions to prevent secondary hazards		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	

Section 7: Handling and storage

Precautions for safe handling

Advice on safe handling	Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protection equipment. Wash thoroughly after handling. Not to be used by pregnant workers and workers who have recently given birth or who are breastfeeding.
General hygiene considerations	Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands and face before breaks and immediately

after handling the product.

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep at temperatures between 20 and 35 °C. Keep container closed when not in use.
Incompatible materials	Strong reducing agents. Acids. Copper. Brass. Light metals.

Section 8: Exposure controls/personal protection

Control parameters

Exposure Limits

No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority. However, Workplace Exposure Standard(s) for particulates:.

Particulates not otherwise classified: 8hr WES-TWA 10 mg/m3 (inhalable dust) or 3 mg/m3 (respirable dust)

As published by the New Zealand Workplace Health & Safety Authority.

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Appropriate engineering controls

Engineering controls

Apply technical measures to comply with the occupational exposure limits.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, DUST MASK.



Respiratory protection	If determined by a risk assessment an inhalation risk exists, wear a dust mask/respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.
Environmental exposure controls	No information available.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

information on basic physical and o		
Physical state	Solid	
Appearance	Powder	
Color	White	
Odor	Odourless	
Odor threshold	No information available	
Property	<u>Values</u>	Remarks • Method
рН	8.4 (1% water solution) at 20°C	None known
Melting point / freezing point	>300°C	None known
Boiling point / boiling range	>300°C	None known
Flash point	Not applicable	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	Negligible at 20°C	None known
Vapor density	No data available	None known
Relative density	Density: 1.30 kg/dm3 at 20°C	None known
Water solubility	Soluble in water	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	>100°C	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
-		
Other information		
Particle characteristics	Not a nanoparticle	
	-	

Section 10: Stability and reactivity

No information available.
Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
None.
None.

Possibility of hazardous reactions

Possibility of hazardous reactions	Reaction with strong reducing agents such as metal hydrides or alkali metals will generate hydrogen gas which could create an explosive hazard.
Conditions to avoid	
Conditions to avoid	UV-radiation/sunlight. Humidity. Temperatures above 40 $^\circ\text{C}$ / 104 $^\circ\text{F}.$ Temperatures of 0 $^\circ\text{C}$ and below.
Incompatible materials	
Incompatible materials	Strong reducing agents. Acids. Copper. Brass. Light metals.
Hazardous decomposition products	<u>8</u>

Hazardous decomposition products Carbon monoxide. Carbon dioxide (CO2).

Section 11: Toxicological information

Acute toxicity

Information on likely routes of exposure

Product Information	No adverse health effects expected if the chemical is handled in accordance with this Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the chemical is mishandled and overexposure occurs are:
Inhalation	May cause irritation.
Eye contact	Dust contact with the eyes can lead to mechanical irritation.
Skin contact	May cause irritation.
Ingestion	May cause gastrointestinal discomfort if consumed in large amounts.
Symptoms	No information available.
Acute toxicity	

Numerical measures of toxicity

ATEmix (oral)	>2000	mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Dipotassium octaborate	-	> 2000 mg/kg (Rabbit)	> 2.04 mg/L (Rat)4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.

Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	Suspected of damaging the unborn child. Classification is based on mixture calculation methods based on component data.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.
Data used to identify the health effects	Refer to Section 16 for Key literature references and sources for data used to compile the SDS.

Section 12: Ecological information

<u>Ecotoxicity</u>	
Aquatic ecotoxicity	Keep out of waterways.
Terrestrial ecotoxicity	There is no data for this product.
Persistence and degradability	Biodegradation is not an applicable endpoint since the product is an inorganic chemical.
Bioaccumulative potential	
Bioaccumulation	There is no data for this product.
<u>Mobility in soil</u>	
Mobility	No information available.
Other adverse effects	
No information available	

No information available.

Section 13: Disposal (considerations
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Waste treatment methods

Waste from residues/unused	Dispose of product in packaging/container in a way that is consistent with the Hazardous
products	Substances (Disposal) Notice 2017 and the Act, and Hazardous Substances (Amendments
	and Revocations) Notice 2020.

Treat the chemical using a method that changes the characteristics or composition of the chemical so that the chemical is no longer a hazardous chemical; or export the chemical from New Zealand as waste.

Contaminated packaging For packages that have been in direct contact with hazardous substances, the person must ensure that the package is rendered incapable of containing any substance. It must be disposed of in a manner that is consistent with the requirements for disposal of the substance that it contained, taking into account the material the package is manufactured from.

Packages may only be reused or recycled if:

- the substance has a physical hazard other than corrosive to metal, and has been treated to remove any residual contents of the hazardous substance;

- or for substances that have a health or environmental hazard, or corrosive to metal, the contents of the residue in the package are below the threshold for the substance to be classified as hazardous in the Hazardous Substances (Hazard Classification) Notice 2020.

Section 14: Transport information

ROAD AND RAIL TRANSPORT	Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.
IATA	Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.
IMDG	Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

Section 15: Regulatory information

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

EPA New Zealand HSNO approval code or group standard	HSR002571 - Fertilisers (Subsidiary Hazard)
National regulations	There are no applicable tolerable exposure limits or environmental exposure limits according to the EPA Controls for Hazardous Substances
Certified handlers, tracking and controlled substance license requirements	Certified handlers are required for some substances. This includes substances requiring a controlled substance license, and most explosives, vertebrates toxic agents, and certain fumigants. Acutely toxic substances which are a Category 1 or 2, such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured. Please check the Health and Safety at Work Act 2015 for further information Controlled substance licenses are required to possess certain explosives, vertebrate toxic agents and fumigants. See Part 7 of the Health and Safety at Work Regulation 2017 for more information

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories	
NZIOC Co	ontact supplier for inventory compliance status.
TSCA Co	ontact supplier for inventory compliance status.
DSL/NDSL Co	ontact supplier for inventory compliance status.
EINECS/ELINCS Co	ontact supplier for inventory compliance status.
ENCS Co	ontact supplier for inventory compliance status.
IECSC Co	ontact supplier for inventory compliance status.
KECL Co	ontact supplier for inventory compliance status.
PICCS Co	ontact supplier for inventory compliance status.
AIIC Co	intact supplier for inventory compliance status.
TCSI Co	ontact supplier for inventory compliance status.

Legend:

NZIOC - New Zealand Inventory of Chemicals

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

- EINECS/ELINCS European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AllC- Australian Inventory of Industrial Chemicals

TCSI - Taiwan Chemical Substance Inventory

Section 16: Other information

Supplier Safety Data Sheet 03/ 2024

Prepared By	

Revision date: Reason(s) For Issue: This Safety Data Sheet has been prepared by IXOM Operations Pty Ltd (Toxicology and SDS Services). 26-Aug-2024 5 Yearly Revised Primary SDS Updated Formulation Change in Hazardous Chemical Classification Change in Handling & Storage Requirements

Revision Note:

***Indicates updated data since last publication. Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorization: PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances STOT: Specific Target Organ Toxicity ATE: Acute Toxicity Estimate LC50: 50% Lethal Concentration LD50: 50% Lethal Dose

Legend	Section 8: EXPOSURE CONTROLS/PERSON	IAL PROTECTION	
TŴĂ	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
**	Hazard Designation	+	Sensitizers
С	Carcinogen		

Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) Environmental Protection Agency Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) U.S. National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Disclaimer

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since IXOM Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their IXOM representative or IXOM Operations Pty Ltd at the contact details on page 1.

IXOM Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

End of Safety Data Sheet