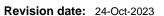
SAFETY DATA SHEET





Revision Number 4

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER		
Product identifier		
Product Name	MONOPOTASSIUM PHOSPHATE	
Product Code(s)	00000005913	
Other means of identification		
CAS No.	7778-77-0	
Synonyms	Potassium phosphate; Potassium dihydrogen phosphate; Monobasic potassium phosphate; Phosphoric acid, monopotassium salt; Potassium acid phosphate; MKP.	
Recommended use of the chemical	and restrictions on use	
Recommended use	Fertilizers. Agricultural chemical.	
Uses advised against	No information available	
Details of the supplier of the safety	data sheet	
<u>Supplier</u> Ixom Operations Pty Ltd (Incorporated in Australia) NZBN: 9429041465226 Address: 166 Totara Street Mt Maunganui South New Zealand		
Telephone Number: +64 9 368 2700 Facsimile: +64 9 368 2710		
For further information, please cont	act	
Contact Point	Product Safety Department	
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.		
2. HAZARDS IDENTIFICATION		
Not classified as a Dangerous Good under 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.		

GHS Classification

SIGNAL WORD Warning

Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2020 Approval Number: HSR002503

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2

Label elements



Hazard statements H302 - Harmful if swallowed H319 - Causes serious eye irritation

Precautionary Statements - Prevention

Avoid breathing dust or spray mist Do not eat, drink or smoke when using this product Wash eyes thoroughly after handling. Wear eye/face protection IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Precautionary Statements - Storage No storage statements 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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical name	CAS No.	Weight-%
Potassium dihydrogen phosphate	7778-77-0	99-100%

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.
Emergency telephone number	
Inhalation	Remove to fresh air. Call a physician if symptoms occur.
Eye contact	In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
Skin contact	Wash skin with soap and water. Get medical attention 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 Irritation. May cause redness and tearing of the eyes.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE FIGHTING MEASURES		
Suitable Extinguishing Media		
Suitable Extinguishing Media	Use extinguishing agent suitable for type of surrounding fire.	
Unsuitable extinguishing media	No information available.	
Specific hazards arising from the chemical		
Specific hazards arising from the chemical	Non-combustible.	
Special protective actions for fire-fighters		
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin and eyes. Avoid breathing dust or spray mist. Use personal protective equipment as required. Wash thoroughly after handling.	
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.	

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Avoid contact with skin and eyes. Avoid breathing dust or spray mist. Avoid generation of dust. Do not eat, drink or smoke when using this product. Use personal protection equipment. Wash thoroughly after handling.
Conditions for safe storage, ir	ncluding any incompatibilities
Storage Conditions	Keep in a dry, cool and well-ventilated place. Keep container closed when not in use.
Incompatible materials	Strong acids. Strong bases. Alkalis.

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 particulate(s):

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

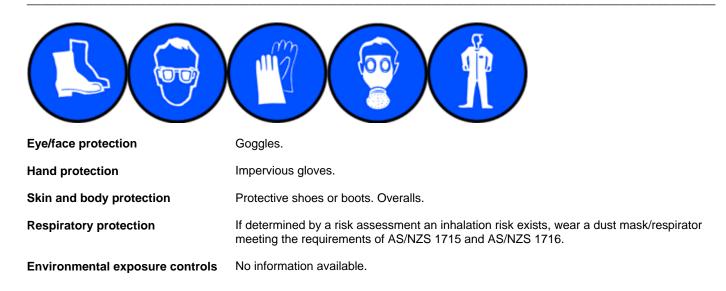
 Engineering controls
 Apply technical measures to comply with the occupational exposure limits.

 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, CHEMICAL GOGGLES, GLOVES, DUST MASK.



9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Solid	
No information available	
No information available	
No information available	
Values	Remark
Not applicable	None kr
253°C	None kr
No data available	None kr
Not applicable	None kr
No data available	None kr
No data available	None kr
	None kr
Not applicable	
Not applicable	
No data available	None kr
Not applicable	None kr
1.2 @20°C	None kr
Soluble in water	None kr
	No information available Values Not applicable 253°C No data available Not applicable No data available No data available No data available No data available Not applicable No data available Not applicable No data available Not applicable Not applicable 1.2 @20°C

No data available

Not applicable

Relative density Water solubility Solubility(ies) Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity

Remarks • Method

None known 4.3-4.7 (at 1%) None known None known None known None known None known

None known None known None known None known None known None known None known None known

Other information

10. STABILITY AND REACTIVITY

Reactivity

Reactivity	No information available.
Chemical stability	
Stability	Stable under normal conditions.
Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
Possibility of hazardous reactions	
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	
Conditions to avoid	None known based on information supplied.
Incompatible materials	
Incompatible materials	Strong acids. Strong bases. Alkalis.
Hazardous decomposition products	

Hazardous decomposition products Phosphorus oxides.

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	Causes serious eye irritation.
Skin contact	May cause irritation.
Ingestion	May cause gastrointestinal discomfort if consumed in large amounts.
Symptoms	Irritation. May cause redness and tearing of the eyes.

Acute toxicity

Numerical measures of toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium dihydrogen	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
phosphate			

See section 16 for terms and abbreviations

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	Causes serious eye irritation.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	Not listed as carcinogenic according to IARC. (IARC - International Agency for Research on Cancer).
Reproductive toxicity	No information available.
STOT - single exposure	May cause respiratory irritation.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

12. ECOLOGICAL INFORMATION

<u>Ecotoxicity</u>				
Ecotoxicity	Keep out of waterways.			
Terrestrial ecotoxicity	Hazardous to terrestrial vertebrates.			
Persistence and degradability				
	Diada we deting in wetten and line black de sint since the weedback in an income is a destaura			
Persistence and degradability	Biodegradation is not an applicable endpoint since the product is an inorganic substance.			
Bioaccumulative potential				
Bioaccumulation	No information available.			
<u>Mobility</u>				
Mobility in soil	No information available.			
Other adverse effects				
Other adverse effects	No information available.			
13. DISPOSAL CONSIDERATIONS				
Waste treatment methods				
Waste from residues/unused products	Dispose of in accordance with federal, state and local regulations.			
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.			

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.
<u>IATA</u>	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.

15. REGULATORY INFORMATION

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

New Zealand				
National regulations	See section 8 for national exposure control parameters			
International InventoriesNZIoCThis material is listed on the New Zealand Inventory of Chemicals.TSCAContact supplier for inventory compliance status.DSL/NDSLContact supplier for inventory compliance status.EINECS/ELINCSContact supplier for inventory compliance status.ENCSContact supplier for inventory compliance status.IECSCContact supplier for inventory compliance status.KECLContact supplier for inventory compliance status.PICCSContact supplier for inventory compliance status.				
AIIC This material is listed on the Australian Inventory of Industrial Chemicals. 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 EINCS - 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 AIIC- Australian Inventory of Industrial Chemicals				
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				
16. OTHER INFORMATION				

Supplier Safety Data Sheet 10/ 2022

Prepared By	This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).
Issuing Date:	24-Oct-2023
Reason(s) For Issue:	Reissue of an obsolete SDS

Revision Note:

The symbol (*) in the margin of this SDS indicates that this line has been revised.

Key or legend to abbreviations and acronyms used in the safety data sheet

Rey of regent to appreviations and acronying used in the safety data sheet					
Legend Section 8	3: EXPOSURE CONTROLS/PERSONA				
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)		
Ceiling	Maximum limit value	*	Skin designation		
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)

EPA (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)

Japan GHS Classification

Australian Industrial Chemicals Introduction Scheme (AICIS)

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)

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

RTECS (Registry of Toxic Effects of Chemical Substances)

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