



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Canadian WHMIS 2015

Revision date 03-Jan-2023

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Revision Number 2

## 1. Identification

### Product identifier

Product Name Monopotassium phosphate anhydrous

### Other means of identification

Product Code(s) 3048

### Recommended use of the chemical and restrictions on use

Recommended use Biocide precursor  
Fertilizer  
Detergent  
Water treatment chemical  
Food additive  
Fire extinguishing agent  
Processing aid  
Feed additives

Restrictions on use No information available

### Details of the supplier of the safety data sheet

#### Initial Supplier Identifier

ICL  
622 Emerson Road - Suite 500  
St. Louis, Missouri 63141, USA  
Tel:(314)983-7884  
e-mail:msdsinfo@icl-group.com

### Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

## 2. Hazard(s) identification

### Classification

Not classified

### Label elements

### Hazard statements

Not classified.

### Other information

May be harmful if swallowed

### 3. Composition/information on ingredients

#### Substance

Chemical name	CAS No	Weight-%
potassium dihydrogenphosphate	7778-77-0	>95

### 4. First-aid measures

#### Description of first aid measures

<b>General advice</b>	Take a copy of the Safety Data Sheet when going for medical treatment.
<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
<b>Ingestion</b>	If swallowed, wash mouth thoroughly with plenty of water. Get medical attention immediately. NOTE: Never give an unconscious person anything to drink

#### Most important symptoms and effects, both acute and delayed

**Symptoms** May be harmful if swallowed.

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

**Note to physicians** Treat symptomatically and supportively.

### 5. Fire-fighting measures

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	Full water jet.
<b>Specific hazards arising from the chemical</b>	May emit toxic fumes under fire conditions.
<b>Hazardous combustion products</b>	Phosphorus oxides.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	None.
<b>Sensitivity to static discharge</b>	None.
<b>Special protective equipment and precautions for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Cool containers with water spray. Contain runoff to prevent entry into water or drainage systems.

### 6. Accidental release measures

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

**Personal precautions** Avoid generation of dust. Wear protective gloves/protective clothing and eye/face protection.

**Environmental precautions**

**Environmental precautions** Should not be released into the environment. 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** Pick up and transfer to properly labeled containers.

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## 7. Handling and storage

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid generation of dust. Ensure adequate ventilation.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. away from incompatible materials (see Section 10).

## 8. Exposure controls/personal protection

**Control parameters**

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	Alberta	British Columbia	Ontario	Quebec
potassium dihydrogenphosphate 7778-77-0	-	-	-	-

**Appropriate engineering controls**

**Engineering controls** Eyewash stations  
Showers  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Chemical safety goggles.

**Hand protection** Protective gloves

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state	Solid
Appearance	crystalline
Color	White
Odor	Odorless

Property	Values	Remarks • Method
Melting point / freezing point	ca. 250 °C	
Boiling point / boiling range	> 450 °C	
Flammability (solid, gas)	Not flammable .	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	No data available	Not applicable
Autoignition temperature	No data available	Not self-ignitable
Decomposition temperature	> 450 °C	
pH	4.2-4.5	
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	No data available	
Dynamic viscosity	No data available	
Water solubility	208 g/l @ 20°C	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	
Vapor pressure	No data available	
Relative density	No data available	
Bulk density	1150-1200 kg/m <sup>3</sup>	
Liquid Density	No data available	
Vapor density	No data available	Not determined
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

### Other information

Oxidizing properties	The structure indicates non oxidizing properties
Explosive properties	Product does not present an explosion hazard.

## 10. Stability and reactivity

Reactivity	See section 10.3.
Stability	Stable under normal conditions.
Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
Possibility of hazardous reactions	Reacts with bases and oxidizing agents.
Conditions to avoid	Hygroscopic. Exposure to moisture. To avoid thermal decomposition, do not overheat.
Incompatible materials	Oxidising agents. Bases.
Hazardous decomposition products	Phosphorus oxides.

## 11. Toxicological information

**Product Information****Information on likely routes of exposure**

**Ingestion** May be harmful if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** See section 4.

**Acute toxicity****Numerical measures of toxicity****Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
potassium dihydrogenphosphate 7778-77-0	>2000 mg/kg (rat, OECD 420, read across)	>2000 mg/kg (rat, OECD 402, read across)	> 0.83 mg/L (4h, rat, OECD 403, read across)

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

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**

**Carcinogenicity** Based on available data, the classification criteria are not met. The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
potassium dihydrogenphosphate 7778-77-0	-	-	-	-

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Not expected.

**12. Ecological information****Ecotoxicity****Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea	Toxicity to microorganisms
potassium dihydrogenphosphate 7778-77-0	EC50: > 100 mg/L (72h, desmodesmus subspicatus, OECD 201, read across); NOEC:> 100 mg/L (72h,	LC50: >100 mg/L (96h, Oncorhynchus mykiss, OECD 203, read across)	EC50: >100 mg/L (48h, daphnia magna, OECD 202, read across)	EC50: >1000 mg/L (3 h, activated sludge, OECD 209, read across)

	desmodesmus subspicatus, OECD 201, read across)			
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**Persistence and degradability** Not relevant for inorganic salts.

**Bioaccumulation** Not expected to bioaccumulate.

Chemical name	Partition coefficient
potassium dihydrogenphosphate 7778-77-0	-

**Mobility in soil** No information available

**Other adverse effects** This product is used as fertilizer. However, large spills can kill vegetation. Prevent large quantities from entering waterways.

### 13. Disposal considerations

#### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Empty containers should be disposed of in accordance with all applicable laws and regulations.

### 14. Transport information

**TDG** Not regulated

**DOT** Not regulated  
**Special precautions** None

**MEX** Not regulated

**IATA** Not regulated  
**Special precautions** None

**IMDG** Not regulated  
**Special precautions** None

### 15. Regulatory information

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

#### National regulations

**Canada - Significant New Activity Notices** Not applicable

#### 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

GHS hazardous component CAS registry numbers appearing in section 3 may differ from substances appearing in section 15 due to country or regional chemical inventory coverage requirements, however, remain in compliance with the inventory. Products that are used as food additives are exempt from listing in international chemical inventories.

For further details on the regulatory status for this product in a specific country, please send your inquiry to the following email address: msdsinfo@icl-group.com

<b>TSCA</b>	Listed or exempted
<b>DSL</b>	Listed or exempted
<b>ENCS</b>	Listed or exempted
<b>IECSC</b>	Listed or exempted
<b>KECL</b>	Listed or exempted
<b>PICCS</b>	Listed or exempted
<b>AIIC</b>	Listed or exempted
<b>NZIoC</b>	Listed or exempted
<b>TCSI</b>	Listed or exempted
<b>NCI</b>	Listed or exempted
<b>TECI</b>	Listed or exempted
<b>NSQ</b>	Listed or exempted

#### **Legend:**

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

**DSL** - Canadian Domestic Substances List

**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

**AIIC** - Australian Inventory of Industrial Chemicals

**NZIoC** - New Zealand Inventory of Chemicals

**TCSI** - Taiwan Chemical Substance Inventory

**NCI** - Vietnam National Chemicals Inventory

**TECI** - Thailand Inventory FDA Existing Chemicals

**NSQ** - Mexico National Inventory of Chemical Substances

## 16. Other information

<b>NFPA</b>	<b>Health hazards</b> 0	<b>Flammability</b> 1	<b>Instability</b> 0	<b>Special hazards</b> -
<b>HMIS</b>	<b>Health hazards</b> 0	<b>Flammability</b> 0	<b>Physical hazards</b> 0	<b>Personal protection</b> X

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

#### **Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

#### **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)

European Chemicals Agency

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  
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)  
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

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**Revision Note** The symbol (\*\*\*) in the margin of this SDS indicates that this line has been revised.  
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End of Safety Data Sheet