



# SAFETY DATA SHEET

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

Revision date 18-Jul-2021

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Revision Number 8.1

## 1. Identification

### Product identifier

Product Name PeKacid

### Other means of identification

Product Code(s) 5130

Synonyms Nova PeKacid  
Potassium pentahydrogen bis(phosphate)  
Phosphoric acid, potassium salt (2:1)

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

Recommended use Fertilizer

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 (International): +1 (703) 527-3887

## 2. Hazard(s) identification

### Classification

Serious eye damage/eye irritation

Category 2B

### Label elements

#### Signal word

Warning

#### Hazard statements

Causes eye irritation

#### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

#### Precautionary Statements - Response

#### Eyes

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

**Other information**

No information available

**3. Composition/information on ingredients****Substance**

Chemical name	CAS No	Weight-%
Potassium pentahydrogen bis(phosphate)	14887-42-4	100

**4. First-aid measures****Description of first aid measures**

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
<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>	Rinse mouth Never give anything by mouth to an unconscious person Do NOT induce vomiting Call a physician Clean mouth with water and drink afterwards plenty of water

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

**Symptoms** Burning sensation.

**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.

**Sensitivity to static discharge** None.

**Special protective equipment and precautions for fire-fighters** 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 contact with skin, eyes or clothing. Use personal protective equipment as required. Avoid generation of dust.

**Other information** Refer to protective measures listed in Sections 7 and 8.

### 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 contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Avoid generation of dust. Ensure adequate ventilation.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. away from incompatible materials (see Section 10). Hygroscopic. Avoid exposure to moisture. Provide acid-resistant floor.

**Packaging materials** Use polyolefine receptacles. Suitable material for receptacles and pipes: Stainless steel.

## 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 pentahydrogen bis(phosphate) 14887-42-4	-	-	-	-

### 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** Wear suitable gloves  
Butyl rubber  
Neoprene gloves  
Natural rubber  
Fluorocarbon rubber (Viton)  
Chloroprene gloves  
Nitrile rubber  
Layer thickness of gloves at least:  $\geq 0.4$  mm

**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** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

**Physical state** Solid  
**Appearance** crystalline powder  
**Color** White  
**Odor** Odorless

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Melting point / freezing point</b>	127-135 °C	OECD 102, EPA
<b>Boiling point / boiling range</b>	Not applicable .	
<b>Flammability (solid, gas)</b>	Not flammable .	EU A.10
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Flash point</b>	No data available	None known
<b>Autoignition temperature</b>	Not self-ignitable .	None known
<b>Decomposition temperature</b>	>200 °C	
<b>pH</b>	2.2	
<b>pH (as aqueous solution)</b>	No data available	No information available
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known
<b>Water solubility</b>	583 g/l at 20°C	OECD 105
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient</b>	No data available	
<b>Vapor pressure</b>	1.47X10 <sup>-3</sup> Pa(20°C)	OECD 104, EU A.4
<b>Relative density</b>	No data available	None known
<b>Bulk density</b>	1.4-2.0 g/cm <sup>3</sup>	
<b>Liquid Density</b>	No data available	
<b>Vapor density</b>	No data available	None known
<b>Particle characteristics</b>		
<b>Particle Size</b>	No information available	
<b>Particle Size Distribution</b>	D10<254.4 μm	

**Other information**

**Oxidizing properties** No data available  
**Explosive properties** No data available.

**10. Stability and reactivity**

**Reactivity** Water solutions of this product may be corrosive to metals.

**Stability** Stable under normal conditions.

**Explosion data**

**Sensitivity to mechanical impact** None.  
**Sensitivity to static discharge** None.

**Possibility of hazardous reactions** Contact with metals may evolve flammable hydrogen gas. Reacts with alkalis.

**Conditions to avoid** Hygroscopic. Exposure to moisture. To avoid thermal decomposition, do not overheat.

**Incompatible materials** Alkali. Metals. Water.

**Hazardous decomposition products** Phosphorus oxides.

**11. Toxicological information****Product Information****Information on likely routes of exposure**

**Inhalation** May cause irritation of respiratory tract. May cause irritation of respiratory tract.

**Eye contact** Causes serious eye irritation. May cause redness, itching, and pain.

**Skin contact** Prolonged contact may cause redness and irritation.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

**Symptoms** May cause redness and tearing of the eyes.

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

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium pentahydrogen bis(phosphate) 14887-42-4	>2000 mg/kg	>2000 mg/kg	-

**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** Causes serious eye irritation.

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

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

Chemical name	ACGIH	IARC	NTP	OSHA
Potassium pentahydrogen bis(phosphate) 14887-42-4	-	-	-	-

**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** Not considered to be harmful to aquatic life.

**Note** The toxicological data refer to similar product

**Algae/aquatic plants**

**Fish**

**Crustacea**

**Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea	Toxicity to microorganisms
Potassium pentahydrogen bis(phosphate) 14887-42-4	EC50: >100 mg/L (72h, algae)	LC50: >100 mg/L (96h, Oncorhynchus mykiss)	EC50: >100 mg/L (48h, Daphnia magna)	-

**Persistence and degradability** Not relevant for inorganic salts.

**Bioaccumulation** Not expected to bioaccumulate. The product dissociates into Potassium and Phosphate ions, which are ubiquitous in the environment.

Chemical name	Partition coefficient
Potassium pentahydrogen bis(phosphate) 14887-42-4	-

**Mobility in soil** The product is highly water soluble and dissociating Not expected to adsorb on soil

**Other adverse effects** Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

## 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** Dispose of contents/containers in accordance with local regulations.

## 14. Transport information

**TDG** Not regulated

<b>DOT</b>	Not regulated
<b>Special precautions</b>	None
<b>MEX</b>	Not regulated
<b>IATA</b>	Not regulated
<b>Special precautions</b>	None
<b>IMDG</b>	Not regulated
<b>Special precautions</b>	None

## 15. Regulatory information

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

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](mailto:msdsinfo@icl-group.com)

<b>TSCA</b>	Listed or exempted
<b>DSL</b>	Not Listed
<b>ENCS</b>	Listed or exempted
<b>IECSC</b>	Not Listed
<b>KECL</b>	Listed or exempted
<b>PICCS</b>	Not Listed
<b>AIIC</b>	Listed or exempted
<b>NZIoC</b>	Not Listed
<b>TCSI</b>	Not Listed
<b>NCI</b>	Listed or exempted
<b>TECI</b>	Not Listed
<b>NSQ</b>	Not Listed

#### **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> 1	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Special hazards</b> -
<b>HMIS</b>	<b>Health hazards</b> 1	<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) (AEGLe(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