



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
US OSHA

Revision date 25-Sep-2019

Supersedes Date: 21-Dec-2017

Revision Number 11

## 1. Identification

### Product identifier

Product Name MKP

### Other means of identification

Product Code(s) 3048-1

Synonyms Nova Peak. Phosphoric acid, Monopotassium salt. Potassium dihydrogenorthophosphate. Monopotassium phosphate

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

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

Restrictions on use No information available

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

#### Supplier Address

ICL  
622 Emerson Road - Suite 500  
St. Louis, Missouri 63141, USA  
Tel:(314)983-7884 Fax:(314)983-7607  
e-mail:msdsinfo@icl-group.com

#### Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

## 2. Hazard(s) identification

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Hazards not otherwise classified (HNOC)

Not Applicable

### Label elements

### Hazard statements

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

May form combustible dust concentrations in air  
The product contains no substances which at their given concentration, are considered to be hazardous to health.

**Other information**

Not Applicable

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

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Chemical name	CAS No.	Weight-%
Monopotassium Phosphate	7778-77-0	>95

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

<b>Inhalation</b>	Supply fresh air; consult doctor in case of symptoms.
<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** No information available.

**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>Specific hazards arising from the chemical</b>	Phosphorus oxides.
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid dust formation. Ensure adequate ventilation. Wear protective gloves/protective clothing and eye/face protection.

**Methods and material for containment and cleaning up**

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Pick up and transfer to properly labeled containers.
<b>Environmental precautions</b>	Should not be released into the environment. See Section 12 for additional Ecological Information.
<b>Reference to other sections</b>	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. Ensure adequate ventilation. Avoid dust formation.

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

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

**8. Exposure controls/personal protection****Control parameters**

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Monopotassium Phosphate 7778-77-0	-	-	-

**Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems

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

**Eye/face protection** Safety glasses.

**Hand protection** Protective gloves

**Respiratory protection** In case of insufficient ventilation wear suitable respiratory equipment. Filter P2.

**Skin and body protection** Lightweight protective clothing.

**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

<b>Color</b>	white	
<b>Odor</b>	Odorless	
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
<b>pH</b>	4.2-4.5	
<b>Melting point / freezing point</b>	ca. 250°C	
<b>Boiling point / boiling range</b>	> 450 °C / 842 °F	
<b>Flash point</b>	-	Not Applicable
<b>Evaporation rate</b>	Not determined	
<b>Flammability (solid, gas)</b>	Not flammable .	None known
<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>Vapor pressure</b>	Not determined	
<b>Vapor density</b>	Not determined	
<b>Relative density</b>	2.34 g/cm <sup>3</sup>	
<b>Water solubility</b>	208 g/l at 20°C	
<b>Solubility in other solvents</b>	no data available	None known
<b>Partition coefficient</b>	Not Applicable	None known
<b>Autoignition temperature</b>	no data available	
<b>Decomposition temperature</b>	>450 °C	
<b>Kinematic viscosity</b>	no data available	None known
<b>Dynamic viscosity</b>	Not Applicable	
<b><u>Other information</u></b>		
<b>Oxidizing properties</b>	The structure indicates non oxidizing properties	
<b>Explosive properties</b>	Not explosive	
<b>Bulk density</b>	1150-1200 kg/m <sup>3</sup>	

## 10. Stability and reactivity

<b>Reactivity</b>	Reacts with bases and oxidizing agents.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	Hygroscopic. Exposure to water. To avoid thermal decomposition, do not overheat.
<b>Incompatible materials</b>	Oxidising agents. Bases.
<b>Hazardous decomposition products</b>	Phosphorus oxides.

## 11. Toxicological information

### Information on likely routes of exposure

#### Product Information

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

**Symptoms** No information available.

### Acute toxicity

**Numerical measures of toxicity**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Monopotassium Phosphate 7778-77-0	>2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit) (OECD 402 read-across)	>0.83 mg/l (the maximum attainable concentration) (OECD 403 read-across)

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

<b>Skin corrosion/irritation</b>	Does not meet classification criteria.
<b>Serious eye damage/irritation</b>	Does not meet classification criteria.
<b>Respiratory or skin sensitization</b>	Does not meet classification criteria.
<b>Germ cell mutagenicity</b>	Does not meet classification criteria. Not mutagenic in several in vitro assays.
<b>Carcinogenicity</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical name	ACGIH	IARC	NTP	US OSHA
Monopotassium Phosphate 7778-77-0	-	-	-	-

<b>Reproductive toxicity</b>	Does not meet classification criteria. OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test. NOAEL >282 mg/kg bw/day (rat, oral).
<b>Teratogenicity</b>	Not teratogenic.
<b>STOT - single exposure</b>	No effects on specific target organs have been identified.
<b>STOT - repeated exposure</b>	No effects on specific target organs have been identified.
<b>Aspiration hazard</b>	Not expected.

## 12. Ecological information

### Ecotoxicity

#### Component information

Chemical name	Algae/aquatic plants	Fish	Crustacea	Toxicity to microorganisms
Monopotassium Phosphate 7778-77-0	EC50 >100 mg/L (72h, <i>Desmodesmus subspicatus</i> ) (OECD 201 read-across)	LC50 > 100 mg/l (96h, fish <i>Oncorhynchus mykiss</i> ) (OECD 203 read-across)	EC50 > 100 mg/L (48h, <i>Daphnia magna</i> ) (OECD 202 read-across)	EC50 > 1000 mg/l NOEC: 1000 mg/l (3h, Activated sludge) (OECD 209 read-across)

<b>Persistence and degradability</b>	This material hydrolyzes in water. Not relevant for inorganic substance.
<b>Bioaccumulation</b>	Bioaccumulation is not likely to occur since this material is highly soluble in water.

#### Component information

Chemical name	Partition coefficient
Monopotassium Phosphate 7778-77-0	-

<b>Other adverse effects</b>	This product is used as fertilizer. However, large spills can kill vegetation. Prevent large quantities from entering waterways.
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### 13. Disposal considerations

#### Waste treatment methods

<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Empty containers should be disposed of in accordance with all applicable laws and regulations.

### 14. Transport information

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

### 15. Regulatory information

#### 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

<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>AICS</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/NDSL** - Canadian Domestic Substances List/Non-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  
**AICS** - Australian Inventory of Chemical Substances  
**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

### US Federal Regulations

Chemical name	U.S. - TSCA (Toxic Substances Control Act) - Section 5(a)(2) - Chemicals with Significant New Use Rules (SNURs)
Monopotassium Phosphate - 7778-77-0	-

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Monopotassium Phosphate 7778-77-0	-	-	-	-

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Monopotassium Phosphate 7778-77-0	-	-

### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

#### **US State Regulations**

This product does not contain any substances regulated by state right-to-know regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Monopotassium Phosphate 7778-77-0	-	-	-

### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not Applicable

## **16. Other information**

<b>NFPA</b>	Health hazards 0	Flammability 1	Instability 0	Physical and chemical properties -
<b>HMIS</b>	Health hazards 0	Flammability 0	Physical hazards 0	Personal protection 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 date** 25-Sep-2019

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

**Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, we make no representations as to the completeness or accuracy thereof. Information is supplied to you upon the condition that the persons receiving the information will make their own determination as to its safety and suitability for their purposes prior to use. In no event will we be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information. In addition, we shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.**

End of Safety Data Sheet