# Material Safety Data Sheet

## Potassium Phosphate Monobasic

### ACC# 19543

# Section 1 - Chemical Product and Company Identification

MSDS Name: Potassium Phosphate Monobasic

Catalog Numbers: S80146, S80146-1, BP362-1, BP362-500, BP362-500LC, NC9072700, NC9179992, NC9751806, NC9943712, P284-500, P285-10, P285-3, P285-50, P285-500, P285250LB, P286-1, P380-12, P380-212, P380-500, P380250LB, P382-500, P385250LB, P385500, P38612, P386212, P386250LB, P386500, P386SAM1, P386SAM2, P386SAM3, XXP285250LB, XXP38050KG, XXP380EP50KG

**Synonyms:** Dihydrogen Potassium Phosphate; Monopotassium phosphate; Phosphoric Acid, Monopotassium Salt; Potassium Dihydrogen Phosphate; Potassium Dihydrogenorthophosphate.

## **Company Identification:**

Fisher Scientific 1 Reagent Lane Fair Lawn, NJ 07410

For information, call: 201-796-7100 Emergency Number: 201-796-7100

For CHEMTREC assistance, call: 800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

# Section 2 - Composition, Information on Ingredients

CAS#	CAS# Chemical Name		EINECS/ELINCS	
7778-77-0	Potassium Phosphate, Monobasic	ca. 100	231-913-4	

**Hazard Symbols:** None listed. **Risk Phrases:** None listed.

# Section 3 - Hazards Identification

### **EMERGENCY OVERVIEW**

Appearance: colorless to white crystals. Hygroscopic (absorbs moisture from the air). **Caution!** May cause eye and skin irritation. The toxicological properties of this material have not been fully investigated. May cause respiratory and digestive tract irritation.

Target Organs: None known.

#### **Potential Health Effects**

Eye: Dust may cause mechanical irritation.

Skin: May cause skin irritation. Low hazard for usual industrial handling.

Ingestion: May cause irritation of the digestive tract. Low hazard for usual industrial handling. The

toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance

have not been fully investigated.

Chronic: Ingestion of large doses may cause nausea, vomiting, diarrhea. Chronic exposure to this

product may cause calcium phosphate deposition in the kidneys.

### Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

**Skin:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

**Ingestion:** Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

**Notes to Physician:** Persons with impaired kidney function may be more susceptible to the effects of this substance. Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:** Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: Not applicable.

**Autoignition Temperature:** Not applicable. **Explosion Limits, Lower:** Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

### Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

# Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

**Storage:** Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits** 

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Potassium Phosphate, Monobasic	none listed	none listed	none listed

**OSHA Vacated PELs:** Potassium Phosphate, Monobasic: No OSHA Vacated PELs are listed for this chemical.

### **Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Clothing:** wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

## Section 9 - Physical and Chemical Properties

Physical State: Crystals

Appearance: fine - colorless to white

Odor: Odorless **pH:** Not available.

Vapor Pressure: Not available. Vapor Density: Not available. Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point:252.6 deg C
Decomposition Temperature:> 253 deg C

Solubility: Soluble.

Specific Gravity/Density: 2.338 g/cm3

Molecular Formula: KH2PO4 Molecular Weight: 136.0837

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, dust generation, exposure to moist air or water. **Incompatibilities with Other Materials:** Strong oxidizing agents, strong bases, moisture. **Hazardous Decomposition Products:** Oxides of phosphorus, irritating and toxic fumes and

Hazardous Polymerization: Will not occur.

# Section 11 - Toxicological Information

RTECS#:

CAS# 7778-77-0: TC6615500

**LD50/LC50:** CAS# 7778-77-0:

Skin, rabbit: LD50 = >4640 mg/kg;

Carcinogenicity:

CAS# 7778-77-0: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**Epidemiology:** No information available. **Teratogenicity:** No information available.

Reproductive Effects: No information available.

Neurotoxicity: No information available. Mutagenicity: No information available. Other Studies: No data available.

## Section 12 - Ecological Information

No information available.

# Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed. RCRA U-Series: None listed.

## Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IMO	Canada TDG
Shipping Name:	No information available.				No information available.
Hazard Class:					
UN Number:					
Packing Group:					

## Section 15 - Regulatory Information

### **US FEDERAL**

#### **TSCA**

CAS# 7778-77-0 is listed on the TSCA inventory.

## Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

#### **Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

#### Section 12b

None of the chemicals are listed under TSCA Section 12b.

## TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

### SARA

## **CERCLA Hazardous Substances and corresponding RQs**

None of the chemicals in this material have an RQ.

## SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

#### **SARA Codes**

CAS # 7778-77-0: acute.

#### Section 313

No chemicals are reportable under Section 313.

#### Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

### Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

#### OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

#### STATE

CAS# 7778-77-0 is not present on state lists from CA, PA, MN, MA, FL, or NJ. California No Significant Risk Level: None of the chemicals in this product are listed.

## **European/International Regulations**

**European Labeling in Accordance with EC Directives** 

#### **Hazard Symbols:**

Not available.

### **Risk Phrases:**

## **Safety Phrases:**

### WGK (Water Danger/Protection)

CAS# 7778-77-0: 1

Canada - DSL/NDSL

CAS# 7778-77-0 is listed on Canada's DSL List.

#### Canada - WHMIS

This product does not have a WHMIS classification.

## **Canadian Ingredient Disclosure List**

**Exposure Limits** 

# Section 16 - Additional Information

MSDS Creation Date: 4/27/1999 Revision #5 Date: 3/18/2003

The information above is believed to be accurate and represents the best information currently available to us. However, we make

no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.