


SECTION I NAME **24 HOUR EMERGENCY ASSISTANCE**

| | |
|-------------------|---------------------------------|
| Product | Potassium Phosphate, Monobasic |
| Chemical Synonyms | Potassium Dihydrogen Phosphate |
| Formula | KH ₂ PO ₄ |
| Unit Size | up to 2.5 Kg. |
| C.A.S. No. | 7778-77-0 |

| | | |
|---|---------------|---|
|  CHEMTREC 800-424-9300 Day 585-226-6177 NFPA HAZARD RATING MINIMAL SLIGHT MODERATE SERIOUS SEVERE 0 1 2 3 4 | Health | 0 |
| | Fire | 0 |
| | Reactivity | 0 |
| | HMIS * | |

SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s) | % | TLV Units |
|--|------|-------------------|
| Potassium phosphate, monobasic | 100% | None established. |
| CAUTION! | | |
| MAY BE HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION. | | |

SECTION III PHYSICAL DATA

| | | | |
|------------------------|--|---|---------------|
| Melting Point (°F) | 253°C (487°F) | Specific Gravity (H ₂ O = 1) | 2.338 at 20°C |
| Boiling Point (°F) | Data not listed. | Percent Volatile by Volume (%) | Non-volatile. |
| Vapor Pressure (mm Hg) | Negligible as solid. | Evaporation Rate (=1) | Non-volatile. |
| Vapor Density (Air=1) | N/A | | |
| Solubility in Water | Complete. | | |
| Appearance & Odor | White to colorless needle-like crystalline powder; no odor. Hygroscopic. | | |

SECTION IV FIRE AND EXPLOSION HAZARD DATA

| | | | | | |
|---------------------------|---|-------------------------------------|----|-------|-------|
| Flash Point (Method Used) | Non-flammable. | Flammable Limits in Air % by Volume | NA | Lower | Upper |
| Extinguisher Media | Use any media suitable for extinguishing supporting fire. | | | | |

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products of oxides of phosphorous.

D.O.T. Non Regulated.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

Threshold Limited Value None established. (ACGIH 2001).

Effects of Overexposure

INHALATION: May cause irritation of the eyes, nose and throat, coughing and choking. **SKIN:** Repeated or prolonged contact may cause dermatitis (skin irritation). **EYE:** May cause mild irritation. **INGESTION:** Large doses may cause diarrhea, nausea, cramps and vomiting. Target organs: None known.

Emergency and First Aid Procedures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

| | | | |
|-----------|----------|---------------------|-------------------------------------|
| Stability | Unstable | Conditions to Avoid | Excessive temperature and moisture. |
| | Stable | | |

Incompatibility (Materials to Avoid) May corrode aluminum and steel. May react violently with strong bases.

Hazardous Decomposition Products Thermal decomposition may release toxic and/or hazardous gases.

| | | |
|---------------------------------|----------------------------|-----------------|
| Hazardous Polymerization | Conditions to Avoid | |
| | May Occur | Will Not Occur |
| | X | Not applicable. |

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Sweep up and place in suitable container for reclamation or disposal. Wash spill area well with soap and water.

Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Dispose of in an approved incinerator or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

| | | | |
|--|---|--------------|---------|
| Respiration Protection (Specify Type) | None required in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator. | | |
| Ventilation | Local Exhaust | Recommended. | Special |
| | Mechanical (General) | None needed. | Other |
| | | | No. |
| | | | No. |

Protective Gloves Rubber for repeated exposures. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Goggles, lab coat, eye wash station, proper gloves, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from incompatible substances. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container tightly closed when not in use.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children. Remove and wash contaminated clothing.

Revision No. 5 Date 01/01/07 Approved James A. Bertsch Chemical Safety Coordinator JAB

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