

# MATERIAL SAFETY DATA SHEET

July 1, 1986

## SECTION I NAME

Product **POTASSIUM PHOSPHATE, DIBASIC**

Chemical Synonyms **Dipotassium Phosphate; DKP**

Formula **K<sub>2</sub>HPO<sub>4</sub>**

Unit(s) Size **100, 500 grams, 2.5 Kg.**

C.A.S. No. **7758-11-4**

CHEMTREC 800-424-9300		Health	1
Day 716-226-6177		Fire	0
Night 716-334-4222		Reactivity	0

NFPA HAZARD RATING			
0	1	2	3
0	1	2	3
0	1	2	3

## SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)

Potassium Phosphate, Dibasic

%	TLV Units
100%	None established

CAUTION! MAY BE HARMFUL IF SWALLOWED.

AVOID CONTACT WITH EYES.

## SECTION III PHYSICAL DATA

Melting Point (°F) **253°C (487°F)**

Specific Gravity (H<sub>2</sub>O = 1) **2.338**

Boiling Point (°F) **Decomposes**

Percent Volatile by Volume (%) **Non-volatile (NA)**

Vapor Pressure (mm Hg) **Meq(1)gible as solid**

Evaporation Rate **= 1)**

Vapor Density (Air = 1) **6.03**

Solubility in Water **33 grams per 100 ml water at 20°C.**

Appearance and Odor **Deliquescent white crystals or powder; no odor.**

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) **Non-flammable (NA)**

Flammable Limits in Air **NA**

Extinguisher Media **Use any media suitable for extinguishing supporting fire.**

## SPECIAL FIREFIGHTING PROCEDURES

Non-flammable. In fire conditions, wear a NIOSH-approved self-contained breathing apparatus.

## UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products.

D.O.T. **NON-REGULATED**

**Frej**

**FREY SCIENTIFIC**

**SCIENTIFIC**

905 HICKORY LANE MANSFIELD OHIO 44905

MSDS No.  
Effective Date

## SECTION V HEALTH HAZARD DATA

Threshold Limited Value

None established. (ACGIH 1983-84).

## Effects of Overexposure

Specific data is not available. This compound is considered to be of low hazard by ingestion or by contact. Exercise appropriate procedures to minimize potential hazards.

## Emergency and First Aid Procedures

EYES: Flush thoroughly with water. If irritation develops or persists, get medical attention.  
SKIN: None indicated.  
INGESTION: None indicated.

## SECTION VI REACTIVITY DATA

001029

Stability **Unstable**

Conditions to Avoid

Excessive temperature and heat.

Incompatibility (Materials to avoid)

None known.

Hazardous Decomposition Products

Thermal decomposition or burning may produce oxides of phosphorus (PO<sub>x</sub>).

Hazardous Polymerization

Conditions to Avoid

May Occur

Will Not Occur

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Flush to sewer with copious amounts of water.  
Wash spill area well with soap and water.

## Waste Disposal Method

Flush to sewer with copious amounts of water.

## SECTION VIII SPECIAL PROTECTION INFORMATION

Discharge, treatment, or disposal may be subject to federal, state, or local laws.

Respiration Protection	Local Exhaust	Mechanical Exhaust	Other
None required in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH-approved dust mask.	None needed	None needed	None needed

Protective Gloves

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

## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing

Store in a cool, dry place.  
Wash thoroughly after handling.  
Keep container tightly closed when not in use.

Other Precautions

Read label on container before using.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Rev. No. **1/1** Date **1/12/87** Approved **Frej** Chemical Safety Coordinator

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