Material Safety Data Sheet



Martrex, Inc.

Section I: Chemical Product and Company Information

Product name: Potassium Phosphate, Monobasic

Reference Number: n/a

Supplier/ Further Information: Martrex, Inc.

EPA Registration Number: n/a

CAS#: 7778-77-0

Chemical Name: Potassium Phosphate, Monobasic

Synonyms: Potassium Phosphate, Monobasic, Crystal, MKP,

Monopotassium Phosphate **Chemical Family:** Inorganic salt

Product Use: n\a MSDS Number: n/a

24 Hour Emergency Phone - Chemtrec Transport: 1-800-424-9300; Medical: 1-800-441-3637

Section 2: Composition/Information on Ingredients

Hazardous Component	CAS#	%	OSHA Limits	ACGIH Limits	OTHER Limits
Potassium Phosphate, Monobasic	7778-77-0	99+%	no data	no data	no data

Section 3: Hazards Identification

Emergency Overview

NFPA Ratings: Health: 0 Flammability: 0 Reactivity: 0

OSHA Hazards: No known OSHA hazards

GHS Classification: Acute toxicity, Dermal (Category 5) **GHS Label elements, including precautionary statements**

Pictogram: none Signal word: Warning

Hazard statement(s): H313: May be harmful in contact with skin

Precautionary statement(s): none

Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation. **Skin:** May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

Carcinogenicity Data: no data

See Section 11 for more Toxicological information

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1-800-441-3637 Medical

Web: www.martrexinc.com

For Rating Explanation see Section 16

Reactivity

Special Hazard

Section 4: First Aid Measures

General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a

physician.

Skin Exposure: Wash off with soap and plenty of water. Consult a physician. Eye Exposure: Flush eyes with water as a precaution. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

physician.

NOTE TO THE PHYSICIAN: Treat symptomatically and supportively.

Section 5: Fire Fighting Measures

Conditions of Flammability:

Not flammable or combustible.

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions: Oxides of phosphorus, Potassium oxides

Further information:

The product itself does not burn.

Special Fire Fighting Information: Wear appropriate personal protective equipment as specified in Section 8. Hazardous Combustion Products: See Section 10 Reactivity: Hazardous Decomposition Products.

Section 6: Accidental Release Measures

Personal Precautions:

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Avoid breathing dust. Wear appropriate personal protective as specified in Section 8.

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Environmental and Regulatory Reporting: See Sections 12, 13 and 15

Section 7: Handling and Storage

Precautions for safe handling:

Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place

Section 8: Exposure Controls / Personal Protection

Contains no substances with occupational exposure limit values.

Personal protective equipment:

Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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Hand protection;

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection:

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection:

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9: Physical and Chemical Properties

Chemical Name: Potassium Phosphate, Monobasic

Percent Equivalent: 99+% Physical State: solid powder Color and Appearance: white

Odor: no data

Odor Threshold: no data

pH: no data

Melting point/freezing point: Melting point/range: 252.6 °C (486.7 °F)

Boiling Point: no data Flash Point: no data

Ignition Temperature: no data
Autoignition Temperature: no data
Lower explosive limit: no data
Upper explosive limit: no data
Vapor Pressure: no data

Density: 2.338 g/mL at 25 °C (77 °F)

Solubility in water: no data

Partition coefficient n-octanol/water: no data

Relative vapor density: no data Evaporation Rate: no data Chemical Formula: KH₂PO₄ Formula Wt: 136.0857 g/mol

Section 10: Stability and Reactivity

Chemical Stability (stable under normal temperature and pressures):

Stable X Unstable

Possibility of hazardous reactions: no data Conditions to Avoid: Exposure to moisture Materials to Avoid: Strong Oxidizing agents

Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions -

Oxides of phosphorus, Potassium oxide Other decomposition products: no data

Section II: Toxicological Information

Acute toxicity

Oral LD₅₀: no data available Inhalation LC₅₀: no data available

Dermal LD₅₀: LD₅₀ Dermal - rabbit - > 4,640 mg/kg **Other information on acute toxicity:** no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity single exposure (Globally Harmonized System): no data available Specific target organ toxicity repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: no data available

Potential health effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological

properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information: RTECS: TC661 5500

Section 12: Ecological Information

Toxicity: no data available

Persistence and Degradability: no data available Bloaccumulative Potential: no data available

Mobility in Soil: no data available

PBT and vPvB Assessment: no data available Other Adverse Effects: no data available

Section 13: Disposal Considerations

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

Section 14: Transport Information

DOT (US): Not dangerous goods **IMDG:** Not dangerous goods **IATA:** Not dangerous goods

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Section 15: Regulatory Information

OSHA Hazards: No known OSHA hazards

SARA 302 Components: SARA 302: No chemicals in this material are subject to the reporting requirements of

SARA Title III, Section 302.

SARA 313 Components: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: No SARA Hazards

Massachusetts Right To Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know ComponentsCas#Potassium dihydrogenorthophosphate7778-77-0New Jersey Right To Know ComponentsCas#Potassium dihydrogenorthophosphate7778-77-0

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: Other Information

ACGIH - American

Conference of Governmental Industrial Hygienists

ANSI - American National Standards Institute

CAS - Chemical Abstracts Service

CERCLA - Comprehensive Environmental Response, Compensation & Liability Act of 1980

CFR - Code of Federal Regulations

CHEMTREC - Chemical Transportation

Emergency Center

CPR - Controlled Products
Regulations
CWC Chaminal Washing

CWC - Chemical Weapons Convention

DOT - U.S. Department of Transportation

NFPA Rating Explanation Guide 🔷							
Rating Number	Health Hazard	Flamibility Hazard	Instability Hazard	Rating Symbol	Special Hazard		
4	Can be lethal	Will vaporize and readily burn at normal temperatures	May explode at normal temperatures and pressures	ALK ACID	Alkaline Acidic		
3	Can cause serious or permanent injury	Can be ignited under almost all ambient temperatures	May explode at high temperature or shock	BIO COR	BioHazard Strong Corrosive		
2	Can cause temporary incapacitation or residual injury	Must be heated or high ambient temperature to burn	Violent chemical change at high temperatures or pressures	CRYO OXY	Cryogenic Oxidizer		
1	Can cause significant irritation	Must be preheated before ignition can occur	Normally stable. High temperatures make unstable	₩	Radioactive Reacts violently or explosively with		
0	No Hazard	Will not burn	Stable	₩ox	water Reacts violently or explosively with water or oxidizer		

This chart for reference only - For complete specifications consult the NFPA Standard

DSL - Canadian Domestic Substance List

EHS - Extremely Hazardous Substance

EPA - U.S. Environmental Protection Agency

HMIS - Hazardous Material Identification System

IARC - International Agency for Research on Cancer

LEL/UEL - Lower and Upper Explosive Limit

mg/m3 - Milligrams per cubic meter

MSDS - Material Safety Data Sheet

NAERG - North American Emergency Response Guidebook

NIOSH - National Institute of Occupational Safety and Health

NFPA - National Fire Protection Association

24 Hour Emergency Phone - Chemtrec: 1-800-424-9300 Transportation

NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit (set by OSHA)

PPE - Personal Protective Equipment

RCRA - Resource Conservation and Recovery Act of 1976 **SARA -** Superfund Amendments and Reauthorization Act **TDG** (Canadian): Transport of Dangerous Goods Regulations

TLV - Threshold Limit Value (set by ACGIH) **TWA** - 8-hour Time Weighted Average **TSCA** - US Toxic Substance Control Act

WHMIS - Workplace Hazardous Material Information System

MSDS Issue Date: n/a Revised Date: 11-10-2011

Supersedes: n/a

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