

POTASSIUM DIHYDROGEN ORTHOPHOSPHATE

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Product Name: POTASSIUM DIHYDROGEN ORTHOPHOSPHATE

Product Code: 389

CAS#: 7778-77-0

Synonym: Monopotassium Phosphate; Potassium Dihydrogen Phosphate; Phosphoric Acid, Monopotassium salt.

Chemical Name: Potassium Phosphate Monobasic

Chemical Formula: KH_2PO_4

Formula Weight: 136.09

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Composition:

Name: Potassium Dihydrogen Orthophosphate

Toxicological Data on Ingredients:

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects: Not available.

Carcinogenic effects: Not available.

Mutagenic effects: Not available

Teratogenic effects: Not available.

Developmental toxicity: Not available.

SECTION 4: FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact: Wash off immediately with soap and plenty of water. Cover the irritated skin with emollient. Immediate medical attention is required.

Serious Skin Contact: Not available.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not Available.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available

SECTION 5: FIRE AND EXPLOSION DATA

Flammability of the Product: Nonflammable.

Auto-Ignition Temperature: Not Applicable.



Flash Points: Not Applicable.
Flammable Limits: Not Applicable.
Products of Combustion: Not Available.
Fire Hazards in Presence of Various Substances: Not Applicable.
Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available.
Fire Fighting Media and Instructions:
SMALL FIRE: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
LARGE FIRE: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Remarks on Fire Hazards: Not Available.
Special Remarks on Explosion Hazards: Not Available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements
Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

SECTION 7: HANDLING AND STORAGE

Precautions: Do not breathe dust. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible. Keep away from incompatibles such as oxidizing agents, reducing agents, metals, acids, moisture.
Storage: Moisture Sensitive. Light Sensitive. Air Sensitive. Keep container tightly closed in light-resistant containers. Keep container in a cool, well-ventilated area

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

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

Personal protective equipment

Eye/face protection Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin 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.

Body Protection Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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|-------------------------------------|----------------------|
| Appearance Form | : Crystalline powder |
| Colour | : White |
| Odour | : Not available |
| Odour Threshold | : Not available |
| pH | : Not available |
| Melting point/freezing point | : Not available |



| | |
|--|---------------------|
| Initial boiling point and boiling range | : Not available |
| Flash point | : Not available |
| Evaporation rate | : Not available |
| Flammability (solid, gas) | : Not available |
| Upper/lower flammability or explosive limits | : Not available |
| Vapour pressure | : Not available |
| Vapour density | : Not available |
| Relative density | : Not available |
| Water solubility | : Not available |
| Partition coefficient | : Not available |
| Auto-ignition temperature | : Soluble in water. |

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: The product is stable
Instability Temperature: Not available.
Conditions of Instability: Not Available
Incompatibility with various substances: Not Available
Corrosivity: Not Available
Special Remarks on Reactivity: Not Available
Special Remarks on Corrosivity: Not Available
Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation. Ingestion.
Acute toxicity: Not available.
Skin corrosion/irritation: Not available.
Serious eye damage/eye irritation: Not available.
Respiratory or skin sensitization: Not available.
Carcinogenicity: Not available.
Reproductive toxicity: Not available.
Specific target organ toxicity - single exposure: Not available.
Specific target organ toxicity - repeated exposure: Not available.
Aspiration hazard: Not available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: Not available
Persistence and degradability: Not available.
Bioaccumulative potential: Not available.
Mobility in soil: Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION



| | | |
|-------------------------------------|----------------------------------|-----------------|
| UN number: | | |
| ADR/RID: | IMDG: | IATA: |
| UN proper shipping name | | |
| ADR/RID: Not dangerous goods | | |
| IMDG: Not dangerous goods | | |
| IATA: Not dangerous goods | | |
| Transport hazard class(es): | | |
| ADR/RID: | IMDG: | IATA: |
| Packaging group: | | |
| ADR/RID: | IMDG: | IATA: |
| Environmental hazards: | | |
| ADR/RID: No | IMDG Marine pollutant: No | IATA: No |

SECTION 15: OTHER REGULATORY INFORMATION

Federal and State Regulations: TSCA 8(b) inventory: Potassium Phosphate Monobasic.

Other Regulations: Not available.

Other Classifications:

WHMIS (Canada): Not Available

DSCL (EEC): This product is not classified according to the EU regulations.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 0

Reactivity: 0

Specific hazard: Not Available.

Protective Equipment: Gloves, Lab coat, Safety glasses, Dust respirator - be sure to use an approved/certified respirator or equivalent.

SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements.

Not Applicable

Other Special Considerations: Not available

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