

**MATERIAL SAFETY DATA SHEET****Product Name:** Potassium phosphate monobasic anhydrous**CAS No.:** 7778-77-0**Version:** 0**1. Identification**

**Product Code** : 90043, 90223, 90516  
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**2. Composition/Information on Ingredients**

<b>Ingredient</b>	<b>CAS No</b>	<b>Percent</b>
POTASSIUM PHOSPHATE MONOBASIC ANHYDROUS	7778-77-0	98- 100%

**3. Hazards Identification****Hazard classification****Health hazards**

Acute toxicity (Oral) : Category 4  
Serious eye damage/eye irritation : Category 2

**Labels elements****Hazard symbol**

**Signal word** : Warning.

**Hazard statement** : Harmful if swallowed.  
Causes serious eye irritation.

**Precautionary statement**

**Prevention** : Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

**Response** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**Storage:** : Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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- Disposal** : Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- Other hazards which do not result in GHS classification** : None.

**4. First Aid Measures**

- General information** : Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.
- Ingestion** : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell .
- Inhalation** : Move to fresh air. Get medical attention if symptoms persist.
- Skin contact** : Wash skin thoroughly with soap and water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.
- Eye contact** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation persists after washing.
- Most important symptoms/effects, acute and delayed** : Harmful if swallowed. Irritating to eyes, respiratory system and skin.
- Indication of immediate medical attention and special treatment needed** : Treat symptomatically. Symptoms may be delayed.

**5. Fire fighting measures**

- General fire hazards** : No unusual fire or explosion hazards noted .
- Suitable (and unsuitable) extinguishing media**
- Suitable extinguishing media** : Use fire-extinguishing media appropriate for surrounding materials.
- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : None known.
- Special protective equipment and precautions for firefighters**
- Special fire fighting procedures** : Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.
- Special protective equipment for fire-fighters** : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

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- Personal precautions, protective equipment and emergency procedures** : Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Methods and material for containment and cleaning up** : Sweep up and place in a clearly labeled container for chemical waste. Avoid dust formation. Clean surface thoroughly to remove residual contamination.
- Notification Procedures** : Inform authorities if large amounts are involved.
- Environmental precautions** : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

**7. Handling and Storage**

- Precautions for safe handling** : Avoid generation and spreading of dust. Avoid inhalation of high concentrations of dust. Do not get in eyes and avoid contact with skin and clothing. Wash thoroughly after handling. See Section 8 of the MSDS for Personal Protective Equipment. Use only with adequate ventilation.
- Conditions for safe storage, including any incompatibilities** : Keep container tightly closed. Store in a well-ventilated place. Store in cool, dry place .

**8. Exposure Controls Personal Protection****Control parameters**

- Occupational exposure limits** : None of the components have assigned exposure limits.
- Appropriate engineering controls** : No data available.

**Individual protection measures, such as personal protective equipment**

- General information** : No data available.
- Eye/face protection** : Wear safety glasses with side shields (or goggles).
- Hand protection** : Chemical resistant gloves.
- Other** : Wear suitable protective clothing and gloves.
- Respiratory protection** : In case of inadequate ventilation, use respiratory protection.
- Hygiene measures** : Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

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<b>Appearance</b>	:	White Solid Crystals or powder.
<b>Odor</b>	:	Odorless
<b>pH</b>	:	4.4 - 4.7
<b>Melting point/freezing point</b>	:	253 °C
<b>Initial boiling point and boiling range</b>	:	No data available.
<b>Flash Point</b>	:	No data available
<b>Vapor pressure</b>	:	No data available
<b>Vapor density</b>	:	No data available
<b>Relative density</b>	:	2.34 (20 °C)
<b>Solubility in water</b>	:	330 g/l (25 °C) .
<b>Solubility (other)</b>	:	No data available.
<b>Formula</b>	:	H3O4P.K
<b>Molecular Weight</b>	:	136.09 g/mol

**10. Stability and Reactivity**

<b>Reactivity</b>	:	No dangerous reaction known under conditions of normal use.
<b>Chemical stability</b>	:	Stable; however, may decompose if heated.
<b>Possibility of hazardous reactions</b>	:	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	:	Contact with incompatible materials.
<b>Incompatible materials</b>	:	Acids.
<b>Hazardous decomposition products</b>	:	Oxides of potassium. oxides of phosphorus .

**11. Toxicological Information****Information on likely routes of exposure**

<b>Ingestion</b>	:	Irritating. May cause nausea, stomach pain and vomiting.
<b>Inhalation</b>	:	May cause irritation to the respiratory system.
<b>Skin contact</b>	:	Causes mild skin irritation.
<b>Eye contact</b>	:	Causes eye irritation.

**Information on toxicological effects****Acute toxicity (list all possible routes of exposure)**

<b>Oral Product</b>	:	LD 50 (Mouse): Approximate 1,700 mg/kg .
<b>Dermal Product</b>	:	No data available.
<b>Inhalation Product</b>	:	No data available

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<b>Repeated dose toxicity Product</b>	:	No data available.
<b>Skin corrosion/irritation Product</b>	:	Causes mild skin irritation.
<b>Serious eye damage/eye irritation Product</b>	:	Causes eye irritation.
<b>Respiratory or skin sensitization Product</b>	:	Not a skin sensitizer.
<b>Carcinogenicity Product</b>	:	This substance has no evidence of carcinogenic properties.
<b>IARC Monographs on the Evaluation of Carcinogenic Risks to Humans DIOXANE</b>	:	No carcinogenic components identified.
<b>US. National Toxicology Program (NTP) Report on Carcinogens DIOXANE</b>	:	No carcinogenic components identified.
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	:	No carcinogenic components identified.
<b>Germ cell mutagenicity In vitro Product</b>	:	No mutagenic components identified.
<b>In vivo Product</b>	:	No mutagenic components identified.
<b>Reproductive toxicity Product</b>	:	No components toxic to reproduction.
<b>Specific target organ toxicity - single exposure Product</b>	:	None known.
<b>Specific target organ toxicity - repeated exposure Product</b>	:	None known
<b>Aspiration hazard Product</b>	:	Not classified
<b>Other effects</b>	:	None known.

<b>12. Ecological Information</b>
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**Ecotoxicity**

**Acute hazards to the aquatic environment :**

<b>Fish Product</b>	:	No data available.
<b>Aquatic invertebrates Product</b>	:	No data available.
<b>Specified substance(s): POTASSIUM PHOSPHATE MONOBASIC</b>	:	LC 50 (Zebra mussel ( <i>Dreissena polymorpha</i> ), 24 h): 80 - 105 mg/l Mortality LC 50 (Polychaete ( <i>Neanthes grubei</i> ), 28 d): 0.92 mg/l Mortality LC 50 (Polychaete worm ( <i>Nereis arenaceodentata</i> ), 28 d): 1.9 mg/l Mortality

**Chronic hazards to the aquatic environment :**

<b>Fish Product</b>	:	No data available.
<b>Aquatic invertebrates Product</b>	:	No data available.
<b>Toxicity to Aquatic Plants Product:</b>	:	No data available.
<b>Persistence and degradability Biodegradation Product</b>	:	There are no data on the degradability of this product.
<b>BOD/COD ratio Product</b>	:	No data available.
<b>Bioaccumulative potential Bioconcentration factor (BCF)</b>	:	No data available on bioaccumulation.

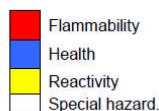
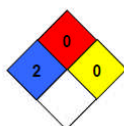
**MATERIAL SAFETY DATA SHEET****Product Name:** Potassium phosphate monobasic anhydrous**CAS No.:** 7778-77-0**Version:** 0**Product****Partition coefficient n-octanol / water (log Kow) Product** : No data available.**Mobility in soil** : No data available.**Other adverse effects** : The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.**13. Disposal consideration****Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws.**Contaminated packaging** : Since emptied containers retain product residue, follow label warnings even after container is emptied.**14. Transport information**

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>DOT</b>			Not regulated.		
<b>IMDG</b>			Not regulated.		
<b>IATA</b>			Not regulated.		

**15. Regulatory Information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture  
No Data Available.

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Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

**Issue Date :**01/08/2014**Version : 0**

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