Material Safety Data Sheet
Potassium phosphate dibasic

Section 1 - Chemical Product and Company Identification

MSDS Name:
Potassium phosphate dibasic
Catalog Numbers:
LC20090
Synonyms:
Phosphoric Acid, Dipotassium Salt; Dibasic Potassium Phosphate; Di-Potassium Hydrogen Orthophosphate.
Company Identification:
LabChem Inc
200 William Pitt Way
Pittsburgh, PA 15238
Company Phone Number:
(412) 826-5230
Emergency Phone Number:
(800) 424-9300
CHEMTREC Phone Number:
(800) 424-9300

Section 2 – Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name:</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>7758-11-4</td>
<td>Dipotassium Phosphate</td>
<td>100</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

Emergency Overview

Appearance: White crystalline powder.
Danger! May cause eye, skin, and respiratory tract irritation. The toxicological properties of this material have not been fully investigated.
Target Organs: No information found.

Potential Health Effects

Eye:
May cause eye irritation. Dust may cause mechanical irritation.

Skin:
May cause skin irritation. Low hazard for usual industrial handling.

Ingestion:
May cause irritation of the digestive tract. Low hazard for usual industrial handling.

Inhalation:
May cause respiratory tract irritation. Low hazard for usual industrial handling.

Chronic:
No information found.
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Section 4 - First Aid Measures

Eyes:
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:
Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion:
Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:
Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician:
Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media:
Use water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition Temperature:
Not applicable

Flash Point:
Not applicable

NFPA Rating:
(estimated) Health: 1; Flammability: 0; Instability: 1

Explosion Limits:
Lower: n/a Upper: n/a

Section 6 - Accidental Release Measures

General Information:
Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:
Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.
Section 7 - Handling and Storage

Handling:
Use with adequate ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

Storage:
Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dipotassium Phosphate</td>
<td>not listed</td>
<td>not listed</td>
<td>not listed</td>
</tr>
</tbody>
</table>

OSHA Vacated PELs:
Dipotassium Phosphate: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes:
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:
Wear appropriate gloves to prevent skin exposure.

Clothing:
Wear appropriate protective clothing to prevent skin exposure.

Respirators:
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Crystalline powder</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>pH</td>
<td>8.5-9.6 (5% aq.sol.)</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing/Melting Point</td>
<td>340°C</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>340°C</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>1600 g/L @ 20°C</td>
</tr>
</tbody>
</table>
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Specific Gravity/Density: 2.3
Molecular Formula: K2HPO4
Molecular Weight: 174.18

Section 10 - Stability and Reactivity

Chemical Stability:
Hygroscopic: absorbs moisture or water from the air.

Conditions to Avoid:
Incompatible materials, dust generation, exposure to moist air or water.

Incompatibilities with Other Materials:
Strong oxidizing agents, strong acids.

Hazardous Decomposition Products:
Carbon monoxide, oxides of phosphorus, carbon dioxide.

Hazardous Polymerization:
Has not been reported.

Section 11 - Toxicological Information

RTECS:
CAS# 7758-11-4: unlisted.

LD50/LC50:
Not available.

Carcinogenicity:
CAS# 7758-11-4 is not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology:
No information found.

Teratogenicity:
No information found.

Reproductive:
No information found.

Mutagenicity:
No information found.

Neurotoxicity:
No information found.

Section 12 - Ecological Information

No information found.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.
Section 14 - Transport Information

US DOT
Shipping Name: Not Regulated
Hazard Class: 
UN Number: 
Packing Group: 

Section 15 - Regulatory Information

US Federal
TSCA:
CAS# 7758-11-4 is listed on the TSCA inventory.

SARA Reportable Quantities (RQ):
None of the chemicals in this material have an RQ.

CERCLA/SARA Section 313:
No chemicals are reportable under Section 313.

OSHA - Highly Hazardous:
None of the chemicals in this product are considered highly hazardous by OSHA.

US State
State Right to Know:
CAS# 7758-11-4 is not present on state lists from California, Pennsylvania, Minnesota, Massachusetts, Florida, or New Jersey.

California Regulations:
None

European/International Regulations
Canadian DSL/NDSL:
CAS# 7758-11-4 is listed on Canada's DSL List.

Canada Ingredient Disclosure List:
CAS# 7758-11-4 is not listed on the Canadian Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: November 13, 2007
Revision Date: December 19, 2007

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