Material Safety Data Sheet
Phosphate Standard Solutions

Section 1 - Chemical Product and Company Identification

MSDS Name:  
Phosphate Standard Solutions  
Catalog Numbers:  
LC18570, LC18580, LC18590, LC18600  
Synonyms:  
None  
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 or  
(011) 703-527-3887

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name:</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>balance</td>
</tr>
<tr>
<td>7778-77-0</td>
<td>Potassium dihydrogen phosphate</td>
<td>0.02-0.4</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

Emergency Overview

Appearance: Clear, colorless solution  
Caution: May cause irritation to eyes and skin. This is expected to be a low hazard for usual industrial handling.  
Target Organs: None.

Potential Health Effects

Eye:  
May cause eye irritation.

Skin:  
May cause skin irritation.

Ingestion:  
This product is not likely to cause gastrointestinal irritation.

Inhalation:  
This product is not likely to cause respiratory irritation.
Chronic:
No information found.

Section 4 - First Aid Measures

Eyes:
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid.

Skin:
Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion:
Give conscious victim 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid if irritation or symptoms occur.

Inhalation:
Move victim to fresh air immediately. Get medical aid if cough or other symptoms appear.

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.

Extinguishing Media:
Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Autoignition Temperature:
Not applicable.

Flash Point:
Not applicable.

NFPA Rating:
CAS# 7732-18-5: Health- 0, Flammability- 0, Instability- 0.
CAS# 7778-77-0: Health- 1, Flammability- 0, Instability- 0.

Explosion Limits:
Lower: No information	Upper: No information

Section 6 - Accidental Release Measures

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

Spills/Leaks:
Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in suitable containers labeled for later disposal.
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Section 7 - Handling and Storage

Handling:
Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage:
Store in a cool, dry area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:
Facilities using or storing this material should be equipped with an eyewash and safety shower. Provide local exhaust or general dilution ventilation.

Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>None of the components are on this list.</td>
<td>None of the components are on this list.</td>
<td>None of the components are on this list.</td>
</tr>
<tr>
<td>Dihydrogen potassium phosphate</td>
<td>None of the components are on this list.</td>
<td>None of the components are on this list.</td>
<td>None of the components are on this list.</td>
</tr>
</tbody>
</table>

OSHA Vacated PELs:
None

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. Do not wear contact lenses when working with chemicals.

Skin:
Wear appropriate protective 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. Always use a NIOSH-approved respirator when necessary.

Section 9 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Clear liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>pH</td>
<td>No information found.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>14 mm Hg @ 20°C</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>0.7</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information found.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information found.</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>212°F (100°C)</td>
</tr>
<tr>
<td>Freezing/Melting Point</td>
<td>32°F (0°C)</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information found.</td>
</tr>
</tbody>
</table>
Section 10 - Stability and Reactivity

**Chemical Stability:**
Stable under normal temperatures and pressures.

**Conditions to Avoid:**
Incompatible materials.

**Incompatibilities with Other Materials:**
Strong oxidizing agents, strong bases.

**Hazardous Decomposition Products:**
Oxes of phosphorus, phosphorus trihydride (phosphine).

**Hazardous Polymerization:**
Has not been reported.

Section 11 - Toxicological Information

**RTECS:**
CAS# 7732-18-5: ZC0110000.
CAS# 7778-77-0: TC6615500.

**LD50/LC50:**
CAS# 7732-18-5:
Oral, rat: LD50 = >90 mL/kg.
CAS# 7778-77-0:
Skin, rabbit: LD50 = >4640 mg/kg.

**Carcinogenicity:**
CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 7778-77-0: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, 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# 7732-18-5 is listed on the TSCA Inventory.
CAS# 7778-77-0 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ):
None of the components are on this list.

CERCLA/SARA Section 313:
None of the components are on this list.

OSHA - Highly Hazardous:
None of the components are on this list.

US State
State Right to Know:
None of the components are on state Right-to-Know lists.

California Regulations:
None.

European/International Regulations
Canadian DSL/NDSL:
CAS# 7732-18-5 is listed on Canada's DSL List.
CAS# 7778-77-0 is listed on Canada's DSL List.

Canada Ingredient Disclosure List:
CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.
CAS# 7778-77-0 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: November 12, 1997
Revision Date: September 17, 2010

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