Material Safety Data Sheet

Sodium Phosphate Dibasic Heptahydrate

ACC# 21535

Section 1 - Chemical Product and Company Identification

MSDS Name: Sodium Phosphate Dibasic Heptahydrate
Synonyms: Sodium monohydrogen phosphate heptahydrate; phosphoric acid, disodium salt, heptahydrate; disodium phosphate heptahydrate; sodium phosphate, disodium phosphate; sodi phosphate, dibasic
Company Identification:
Fisher Scientific
1 Reagent Lane
Fairlawn, NJ 07410
For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent</th>
<th>EINECS/ELI</th>
</tr>
</thead>
<tbody>
<tr>
<td>7782-85-6</td>
<td>DISODIUM ORTHOPHOSPHATE HEPTAHYDRATE</td>
<td>100.0</td>
<td>unlisted</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: white. Caution! Causes eye and skin irritation. Causes digestive...
and respiratory tract irritation.  
**Target Organs:** None.

**Potential Health Effects**

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation.

**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

**Inhalation:** May cause respiratory tract irritation.

**Chronic:** No information found.

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### Section 4 - First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids. 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:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid.

**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

**Notes to Physician:** Treat symptomatically and supportively.

**Antidote:** None reported.

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### Section 5 - Firefighting 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:** For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Autoignition Temperature:** Not applicable.

**Flash Point:** Not applicable.

**NFPA Rating:** Not published. Explosion Limits, Lower: Not available. Upper: Not available.

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### 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.

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### Section 7 - Handling and Storage

**Handling:** Use with adequate ventilation. Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Avoid ingestion and inhalation.

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

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### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** 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 - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISODIUM ORTHOPHOSPHATE HEPTAHYDRATE</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
</tbody>
</table>

**OSHA Vacated PELs:** DISODIUM ORTHOPHOSPHATE HEPTAHYDRATE: 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 eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- **Skin:** Wear appropriate protective gloves and clothing to prevent skin exposure.
- **Clothing:** Wear appropriate protective clothing to prevent skin exposure.
- **Respirators:** Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

### Section 9 - Physical and Chemical Properties

- **Physical State:** Solid
- **Appearance:** white
- **Odor:** None reported
- **pH:** Not available.
- **Vapor Pressure:** Not available.
- **Vapor Density:** Not available.
- **Evaporation Rate:** Viscosity: Not available.
- **Boiling Point:** Not applicable.
- **Freezing/Melting Point:** 48.00 deg C
- **Decomposition Temperature:** Not available.
- **Solubility:** 154 g/l (20 C)
- **Specific Gravity/Density:** 1.6790
- **Molecular Formula:** HNa2O4P.7H2O
- **Molecular Weight:**

### Section 10 - Stability and Reactivity

- **Chemical Stability:** Stable. Stable under normal temperatures and pressures.
- **Conditions to Avoid:** Acids, metals.
- **Incompatibilities with Other Materials:** Strong acids.
- **Hazardous Decomposition Products:** Oxides of phosphorus, sodium oxide.
- **Hazardous Polymerization:** Has not been reported.

### Section 11 - Toxicological Information

- **RTECS#:**
- **CAS# 7782-85-6:** WC4600000
- **LD50/LC50:**
- **CAS# 7782-85-6:** Oral, rat: LD50 = 12930 mg/kg;
- **Carcinogenicity:**
- **CAS# 7782-85-6:** Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
- **Epidemiology:** No data available.
- **Teratogenicity:** No data available.
- **Reproductive Effects:** No data available.
- **Neurotoxicity:** No data available.
- **Mutagenicity:** No data available.
Other Studies: No data available.

Section 12 - Ecological Information

Ecotoxicity: No information found.
Environmental Fate: No information reported.
Physical/Chemical: No information found.
Other: No information found.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.
RCRA D-Series Maximum Concentration of Contaminants: None listed.
RCRA D-Series Chronic Toxicity Reference Levels: None listed.
RCRA F-Series: None listed.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

Section 14 - Transport Information

<table>
<thead>
<tr>
<th>Shipping Name: No information available.</th>
<th>IATA: No information available.</th>
<th>RID/ADR: No information available.</th>
<th>IMO: No information available. SODIUM PHOSPHATE, DIBASIC</th>
<th>Can T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Class:</td>
<td>9.2</td>
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<tr>
<td>UN Number: UN9147</td>
<td></td>
<td></td>
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<tr>
<td>Packing Group: III</td>
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<tr>
<td>Additional Info: REGULATED LIMIT 230 KG</td>
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Section 15 - Regulatory Information

US FEDERAL

TSCA
CAS# 7782-85-6 is not listed on the TSCA inventory. It is for research and development use only.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.
Section 12b
None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.
SARA

Section 302 (RQ)
None of the chemicals in this material have an RQ.
Section 302 (TPQ)
None of the chemicals in this product have a TPQ.
Section 313
No chemicals are reportable under Section 313.

Clean Air Act:
This material does not contain any hazardous air pollutants. This material does not contain an Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances under the CWA. None the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

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

STATE
CAS# 7782-85-6 is not present on state lists from CA, PA, MN, MA, FL, or NJ.
California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols:
Not available.

Risk Phrases:
Safety Phrases:
S24/25 Avoid contact with skin and eyes. S7 Keep container tightly closed.

WGK (Water Danger/Protection)
CAS# 7782-85-6: No information available.

Canada
None of the chemicals in this product are listed on the DSL/NDSL list. This product has a WH classification of D2B.
CAS# 7782-85-6 is not listed on Canada’s Ingredient Disclosure List.

Exposure Limits

Section 16 - Additional Information

MSDS Creation Date: 10/23/1995
Revision #6 Date: 9/02/1997
The information above is believed to be accurate and represents the best information currently available to us. How we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, we assume no liability resulting from its use. Users should make their own investigations to determine the suitability information for their particular purposes. In no way shall Fisher be liable for any claims, losses, or damages of any t party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, Fisher has been advised of the possibility of such damages.

Need help with a product? Send email to Fisher's customer service or call us at 1-800-766-7000.