# SAFETY DATA SHEET

## 1. IDENTIFICATION

**Product identifier**

<table>
<thead>
<tr>
<th><strong>Product code:</strong></th>
<th>SO130</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Name:</strong></td>
<td>MONOBASIC SODIUM PHOSPHATE, MONOHYDRATE, GRANULAR, USP, BP</td>
</tr>
</tbody>
</table>

**Other means of identification**

<table>
<thead>
<tr>
<th><strong>Synonyms:</strong></th>
<th>Dihydrogen Sodium Phosphate; Sodium dihydrogen phosphate monohydrate; Sodium Biphosphate monohydrate; sodium dihydrogen orthophosphate monobasic; Sodium Phosphate, Monobasic, Hydrate; Monosodium Phosphate, monohydrate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAS #:</strong></td>
<td>10049-21-5</td>
</tr>
<tr>
<td><strong>RTECS #:</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>CI#:</strong></td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Recommended use of the chemical and restrictions on use**

<table>
<thead>
<tr>
<th><strong>Recommended use:</strong></th>
<th>No information available.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Uses advised against:</strong></td>
<td>No information available</td>
</tr>
</tbody>
</table>

**Supplier:**

Spectrum Chemical Mfg. Corp  
14422 South San Pedro St.  
Gardena, CA  90248  
(310) 516-8000

**Order Online At:**  
[https://www.spectrumchemical.com](https://www.spectrumchemical.com)

**Emergency telephone number**

Chemtrec 1-800-424-9300  
**Contact Person:**  
Tom Tyner (USA - West Coast)  
Ibad Tirmiz (USA - East Coast)

## 2. HAZARDS IDENTIFICATION

**Classification**

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)

**Label elements**

Not classified
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Phosphate, Monobasic,</td>
<td>10049-21-5</td>
<td>100</td>
</tr>
<tr>
<td>Monohydrate</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms
- May cause eye/skin irritation
- May cause digestive (gastrointestinal) tract irritation
- Vomiting
- Abdominal pain
- May cause diarrhea

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.
Unsuitable Extinguishing Media: No information available.

**Specific hazards arising from the chemical**

Hazardous combustion products: No information available.

Specific hazards: No information available.

**Special Protective Actions for Firefighters**

Specific Methods: No information available

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions:** Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

**Methods for containment:** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up:** Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

### 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Technical Measures/Precautions:** Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

**Safe Handling Advice:** Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Technical Measures/Storage Conditions:** Hygroscopic. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

**Incompatible Materials:**

- Acids
- Bases
- Strong oxidizing agents

**Product code:** SO130

**Product name:** MONOBASIC SODIUM PHOSPHATE, MONOHYDRATE, GRANULAR, USP, BP

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WEEL</th>
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<tbody>
<tr>
<td>Sodium Phosphate, Monobasic, Monohydrate</td>
<td>10049-21-5</td>
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</table>

Canada

<table>
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<tr>
<th>Component</th>
<th>CAS No</th>
<th>Canada - Alberta</th>
<th>Canada - British Columbia</th>
<th>Canada - Ontario</th>
<th>Canada - Quebec</th>
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Australia and Mexico

<table>
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<th>Component</th>
<th>CAS No</th>
<th>Australia</th>
<th>Mexico</th>
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<tbody>
<tr>
<td>Sodium Phosphate, Monobasic, Monohydrate</td>
<td>10049-21-5</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles or Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing
Chemical resistant apron
Gloves

Respiratory protection: Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Product code: SO130
Product name: MONOBASIC SODIUM PHOSPHATE, MONOHYDRATE, GRANULAR, USP, BP
Page 4 / 12
Physical state: Solid
Color: White.
Odor: Odorless.
Taste: No information available.
Formula: NaH2PO4.H2O
Molecular/Formula weight (g/mole): 137.99
Chemical stability
Stability: Stable under recommended storage conditions.
Possibility of Hazardous Reactions: Hazardous polymerization does not occur
Incompatible Materials: Acids
Bases
Strong oxidizing agents
Hazardous decomposition products: Sodium oxides. Phosphorus oxides.
Other Information
Corrosivity: No information available
Product code: SO130
Product name: MONOBASIC SODIUM PHOSPHATE, MONOHYDRATE, GRANULAR, USP, BP
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Ingestion. Inhalation.

Acute Toxicity

Component Information

<table>
<thead>
<tr>
<th>Sodium Phosphate, Monobasic, Monohydrate</th>
<th>CAS No</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10049-21-5</td>
</tr>
</tbody>
</table>

LD50/oral/rat = No information available
LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =
Value - Acute Toxicity = No information available

LD50/oral/mouse =
Value - Acute Tox = No information available

LD50/dermal/rabbit
Value - Acute Toxicity = No information available

LD50/dermal/rat
VALUE - Acute Tox = No information available

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation May cause irritation of respiratory tract.

Product code: SO130

Product name: MONOBASIC SODIUM PHOSPHATE, MONOHYDRATE, GRANULAR, USP, BP
**Ingestion**

It is considered a low hazard for usual industrial handling because phosphates are slowly and incompletely absorbed in the intestinal tract. The most frequently observed effect is gastrointestinal irritation with abdominal pain and cramping, vomiting, diarrhea. If ingestion of large doses occurs and if a significant amount of phosphate is absorbed, severe electrolyte (mineral) disturbances (imbalances) can occur resulting in hyperphosphatemia, hypocalcemia, hyperkalemia, hypernatremia and hypomagnesemia may occur. Symptoms may include anorexia, increased thirst (dehydration), metabolic acidosis, decrease in the amount of urine or in frequency of urination, renal failure, troubled breathing and shortness of breath, tetany/carpopedal spasms, seizures/convulsions, tremor, dizziness, fatigue, lethargy, confusion, changes in mood such as anxiety, depression or irritability, weakness, muscle cramps, numbness or tingling, pain around the mouth or lips, hands or feet, weakness in the hands or feet, bradycardia (slow heartbeat) or tachycardia (fast heartbeat), dysrhythmias (cardiac arrhythmias), hypotension, cardiac arrest, hyperpyrexia.

**Aspiration hazard**

No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity**

No information available.

**Sensitization:**

No information available.

**Mutagenic Effects:**

No information available.

**Carcinogenic effects:**

Not considered carcinogenic.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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<tbody>
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<td>Sodium Phosphate, Monobasic, Monohydrate</td>
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<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
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<td>Not listed</td>
</tr>
</tbody>
</table>

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity**

No data is available

**Reproductive Effects:**

No information available

**Developmental Effects:**

No information available

**Teratogenic Effects:**

No information available

**Specific Target Organ Toxicity**

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Target Organs:**

No information available.
12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility in soil: No information available
Other adverse effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Sodium Phosphate, Monobasic, Monohydrate</td>
<td>10049-21-5</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Class: No information available
Packing group: No information available
Emergency Response Guide Number: No information available
Marine Pollutant: No data available
DOT RQ (lbs): No information available
Special Provisions: No Information available
Symbol(s): No information available
Description: No information available

TDG (Canada)

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant: No Information available
Description: No information available

Product code: SO130
Product name: MONOBASIC SODIUM PHOSPHATE, MONOHYDRATE, GRANULAR, USP, BP
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15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>China IECSC</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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</thead>
<tbody>
<tr>
<td>Sodium Phosphate, Monobasic, Monohydrate</td>
<td>10049-21-5</td>
<td>Not listed; Sodium Phosphate, monobasic, monohydrate (CAS no. 10049-21-5) is exempt from TSCA 8(b) Inventory listing since it is a hydrate.</td>
<td>Not present</td>
<td>Present</td>
<td>Not present</td>
<td>Present</td>
<td>Present</td>
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</tr>
</tbody>
</table>

Product code: SO130

Product name: MONOBASIC
SODIUM PHOSPHATE, MONOHYDRATE, GRANULAR, USP, BP

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However, the anhydrous form (CAS no. 7558-80-7) is listed as ACTIVE on the TSCA 8(b) Inventory.

### U.S. Regulations


**Chemicals Known to the State of California to Cause Cancer:**
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>Carcinogen</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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#### CERCLA/SARA

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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<tr>
<td>Sodium Phosphate, Monobasic, Monohydrate</td>
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#### U.S. TSCA

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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</thead>
<tbody>
<tr>
<td>Sodium Phosphate, Monobasic, Monohydrate</td>
<td>10049-21-5</td>
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<td>Not Applicable</td>
</tr>
</tbody>
</table>

#### Canada

**WHIMIS 2015 - GHS Classifications**

**WHIMIS 2015 Hazard Classification Information:** Not a dangerous product according to HPR classification criteria.

**Canada Hazardous Products Regulation**
This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR.

#### DSL/NDSL

**Product code:** SO130  
**Product name:** MONOBASIC SODIUM PHOSPHATE, MONOHYDRATE, GRANULAR, USP, BP
Component | CAS No | Canada (DSL) | Canada (NDSL)
--- | --- | --- | ---
Sodium Phosphate, Monobasic, Monohydrate | 10049-21-5 | Not Listed | Not Listed

Component | CAS No | CEPA Schedule I - Toxic Substances
--- | --- | ---
Sodium Phosphate, Monobasic, Monohydrate | 10049-21-5 | Not listed

Component | CAS No | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
--- | --- | ---
Sodium Phosphate, Monobasic, Monohydrate | 10049-21-5 | Not listed

**EU Classification**

EU GHS - SV - CLP 1272/2008

Component | CAS No | EU GHS - SV - CLP (1272/2008)
--- | --- | ---
Sodium Phosphate, Monobasic, Monohydrate | 10049-21-5 | 

EU - CLP (1272/2008)

**R-phrase(s)**
not determined (not applicable)

**S-phrase(s)**
none

Component | CAS No | Concentration Limits: | Safety Phrases
--- | --- | --- | ---
Sodium Phosphate, Monobasic, Monohydrate | 10049-21-5 | No information | 

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**
None

**16. OTHER INFORMATION**

**Preparation Date:** 1/9/2015
**Revision date** 6/14/2018
**Prepared by:** Sonia Owen

**Disclaimer:**
All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on

**Product code:** SO130  **Product name:** MONOBASIC SODIUM PHOSPHATE, MONOHYDRATE, GRANULAR, USP, BP
technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet