Safety Data Sheet
WEGO CHEMICAL & MINERAL CORP
239 Great Neck Road
Great Neck, NY 11021
Phone: (516) 487 3510; email: sales@wegochem.com
Date of Revision: 1/9/2015
Monosodium Phosphate

Section 1 - Chemical Product and Company Identification
Product/Chemical Name: Monosodium Phosphate
Chemical Formula: NaH₂PO₄
CAS Number: 7558-80-7
Other Designations: Dihydrogen Sodium Phosphate Monohydrate; Sodium Acid Phosphate Dihydrate; Sodium Biphosphate Monohydrate; Sodium Dihydrogen Phosphate Monohydrate; MSP
Derivation:
General Use:
Emergency Telephone: (ChemTel) Contract MIS0000335; 800 255-3924; INTL 813 248-0585

Section 2 - Hazards Identification

Caution! May cause skin irritation. Causes eye irritation. Hygroscopic.
May cause respiratory and digestive tract irritation.

Potential Health Effects
Primary Entry Routes: Inhalation, skin contact.
Target Organs:
HAZARDS IDENTIFICATION
Classification of the substance or mixture
Not a hazardous substance or mixture.
GHS Label elements, including precautionary statements
Not a hazardous substance or mixture.
Hazards not otherwise classified (HINOC) or not covered by GHS - none

Acute Effects
Inhalation: May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath. Low hazard for usual industrial handling.
Eye: May cause eye irritation.
Skin: Irritant due to its acidic nature. May cause inflammation and pain on prolonged contact, especially with moist skin.
Ingestion: Phosphates are slowly and incompletely absorbed when ingested, and seldom result in systemic effects. Such effects, however, have occurred. Symptoms may include vomiting, lethargy, diarrhea, blood chemistry effects, heart disturbances and central nervous system effects. The toxicity of phosphates is because of their ability to sequester calcium. Low hazard for usual industrial handling.
Carcinogenicity: IARC, NTP, and OSHA do not list Monosodium Phosphate as a carcinogen.

Medical Conditions Aggravated by Long-Term Exposure:
Chronic Effects: May sequester calcium and cause calcium phosphate deposits in the kidneys.

Section 3 - Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS Number</th>
<th>EINECS/ELINCS</th>
<th>% wt or % vol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monosodium Phosphate</td>
<td>7558-80-7</td>
<td>231-449-2</td>
<td>&gt;98</td>
</tr>
</tbody>
</table>

Trace Impurities:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>NIOSH REL</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monosodium Phosphate</td>
<td>TWA</td>
<td>STEL</td>
<td>TWA</td>
<td>STEL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>TWA</th>
<th>STEL</th>
<th>TWA</th>
<th>STEL</th>
<th>IDLH</th>
</tr>
</thead>
</table>
### Section 4 - First Aid Measures

**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.

**Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid.

**Skin Contact:** Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention. *After first aid, get appropriate in-plant, paramedic, or community medical support.*

**Note to Physicians:** Preexisting disorders of the skin, lungs and digestive tract may be aggravated by exposure to this material.

### Section 5 - Fire-Fighting Measures

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Flash Point Method</td>
<td></td>
</tr>
<tr>
<td>Burning Rate</td>
<td></td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>N/A</td>
</tr>
<tr>
<td>LEL</td>
<td>N/A</td>
</tr>
<tr>
<td>UEL</td>
<td>N/A</td>
</tr>
<tr>
<td>Flammability Classification</td>
<td>Non-Flammable</td>
</tr>
<tr>
<td>Extinguishing Media</td>
<td>Use agent most appropriate to extinguish fire.</td>
</tr>
<tr>
<td>Unusual Fire or Explosion Hazards</td>
<td>Not considered to be a significant fire risk; however, containers may burn.</td>
</tr>
<tr>
<td>Hazardous Combustion Products</td>
<td>In a fire may decompose on heating and produce toxic/corrosive fumes. Decomposition may produce toxic fumes of phosphorus oxides (PO₃), caustic compounds.</td>
</tr>
<tr>
<td>Fire-Fighting Instructions</td>
<td>Do not release runoff from fire control methods to sewers or waterways.</td>
</tr>
<tr>
<td>Fire-Fighting Equipment</td>
<td>Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.</td>
</tr>
</tbody>
</table>

### Section 6 - Accidental Release Measures

**Spill/Leak Procedures:** Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

**Small Spills:** Sweep up and containerize for reclamation or disposal.

**Large Spills**
- **Containment:** For large spills, dike far ahead of spill for later disposal. Do not release into sewers or waterways.
- **Cleanup:** Vacuuming or wet sweeping may be used to avoid dust dispersal. Small amounts of residue may be flushed to sewer with plenty of water.

**Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).

### Section 7 - Handling and Storage

**Handling Precautions:** Keep in a tightly closed container, stored in a cool, dry, ventilated area.

**Storage Requirements:** Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

### Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:**
- **Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**Administrative Controls:**
- **Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.
Monosodium Phosphate

Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties

Physical State: Solid
Appearance: white
Odor: odorless
pH: 4.1-4.5: 5% solution
Vapor Pressure: Not available.
Vapor Density: Not available.
Evaporation Rate: Not available.
Viscosity: Not available.

Boiling Point: 399 °F
Freezing/Melting Point: 212 °F
Decomposition Temperature: 399 °F
Solubility: 59.9%
Specific Gravity/Density: 2.04
Molecular Formula: NaH₂PO₄
Molecular Weight: 119.98

Section 10 - Stability and Reactivity

Stability: Monosodium Phosphate is stable at room temperature in closed containers under normal storage and handling conditions. Slightly hygroscopic.

Polymerization: Hazardous polymerization cannot occur.

Chemical Incompatibilities: Substance is incompatible with strong acids and may corrode some metals in the presence of moisture.

Conditions to Avoid: Incompatible materials.

Hazardous Decomposition Products: Thermal oxidative decomposition of Monosodium Phosphate can produce carbon monoxide, oxides of phosphorus, carbon dioxide.

Section 11- Toxicological Information

Toxicity Data:

Toxicity
Oral (rat) LD₅₀: 8290 mg/kg

Irritation
Eye (human): 50 mg mild
Eye (rabbit): 150 mg mild

Epidemiology: No information available.
Teratogenicity: No information available.
Reproductive Effects: No information available.
Neurotoxicity: No information available.
Mutagenicity: No information available.

* See NIOSH, RTECS (WA1900000), for additional toxicity data.

Section 12 - Ecological Information

Ecotoxicity: no information found.
Environmental Fate: no information found.
Environmental Degradation: no information found.
Soil Absorption/Mobility: no information found.

Section 13 - Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Disposal Regulatory Requirements:
Container Cleaning and Disposal:
Section 14 - Transport Information

Not regulated for transportation

<table>
<thead>
<tr>
<th>US DOT (49 CFR 172.101):</th>
<th>IATA</th>
<th>IMDG/IMO</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSN:</td>
<td>PSN:</td>
<td>PSN:</td>
</tr>
<tr>
<td>Hazard Class:</td>
<td>Hazard Class:</td>
<td>Hazard Class:</td>
</tr>
<tr>
<td>UN Number:</td>
<td>UN Number:</td>
<td>UN Number:</td>
</tr>
<tr>
<td>Packing Group:</td>
<td>Packing Group:</td>
<td>Packing Group:</td>
</tr>
</tbody>
</table>

Section 15 - Regulatory Information

US FEDERAL
TSCA
CAS# 7558-80-7 is listed on the TSCA inventory.

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
CERCLA Hazardous Substances and corresponding RQs
None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances
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 any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of 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# 7558-80-7 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.

WGK (Water Danger/Protection)
CAS# 7558-80-7: 1

Canada - DSL/NDSL
CAS# 7558-80-7 is listed on Canada's DSL List.

Canada - WHMIS
This product has a WHMIS classification of D2B.

Canadian Ingredient Disclosure List

Section 16 - Other Information

Disclaimer: All information, recommendations and suggestions appearing herein are based upon sources believed to be reliable: However, it is the users responsibility to determine the safety, toxicity and suitability for its own use of this product. WEGO CHEMICAL & MINERAL CORP. DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE USE BY OTHERS OF THIS PRODUCT.

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