Safety Data Sheet

WEGO CHEMICAL & MINERAL CORP
239 Great Neck Road
Great Neck, NY 11021

Phone: (516) 487 3510; email: sales@wegochem.com

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Sodium Hexametaphosphate

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Sodium Hexametaphosphate
Chemical Formula: Na₆P₆O₁⁶
CAS Number: 10124-56-8
Other Designations: Hexametaphosphate, sodium salt; SHMP; Metaphosphoric acid, hexadinosium salt; Sodium polyphosphates, glassy

Derivation:
General Use: Softening water without precipitate formation, as in dyeing, laundering, textile processing, and washing operations; corrosion inhibitor in de-icing salt preparations; frozen desserts; pre-tanning hides in the manufacture of leather; dispersing clays and pigments; threshold treatment for scale; and corrosion prevention.

Emergency Telephone: (ChemTel) Contract MIS0000335; 800 255-3924; INTL 813 248-0585

Section 2 - Hazards Identification

★★★★★ Emergency Overview ★★★★★
CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. MAY BE HARMFUL IF SWALLOWED OR INHALED.

Potential Health Effects

Primary Entry Routes: Skin contact and inhalation

Target Organs:

Hazard pictograms

Signal words:

Warning

Hazard statements:
H319: Causes serious eye irritation.
H315: Causes skin irritation.
H335: May cause respiratory irritation.

Precautionary statements
P280: Wear protective gloves, protective clothing, eye protection, face protection.
P271: Use only outdoors or in a well-ventilated area.
P261: Avoid breathing dust, fume, gas, mist, vapors, spray.
P264: Wash thoroughly after handling.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P332+P313: If skin irritation occurs: Get medical advice.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P363: Wash contaminated clothing before reuse.
P403+P233: Store in well-ventilated place. Keep container tightly closed.
P405: Store locked up.
P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Acute Effects
Sodium Hexametaphosphate

Inhalation: May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

Eye: May cause irritation, redness and pain.

Skin: May cause irritation with redness and pain.

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. Systemic acidosis may result as this material is believed to hydrolyze into phosphoric acid when ingested.

Carcinogenicity: IARC, NTP, and OSHA do not list Sodium Hexametaphosphate as a carcinogen.

Medical Conditions Aggravated by Long-Term Exposure: Persons with pre-existing skin disorders or eye problems, jaw/tooth abnormalities, or impaired liver, kidney or respiratory function may be more susceptible to the effects of the substance.

Chronic Effects: May sequester calcium and cause calcium phosphate deposits in the kidneys. Chronic ingestion or inhalation may induce systemic phosphorous poisoning. Liver damage, kidney damage, jaw/tooth abnormalities, blood disorders and cardiovascular effects can result.

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>
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<td>Sodium Hexametaphosphate</td>
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<td>233-343-1</td>
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Section 4 - First Aid Measures

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

Ingestion: After first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians:

Section 5 - Fire-Fighting Measures

Flash Point: N/A
Flash Point Method: 
Burning Rate: 
Autoignition Temperature: N/A
LEL: N/A
UEL: N/A

Flammability Classification: not flammable
Extinguishing Media: Use any means suitable for extinguishing surrounding fire.
Unusual Fire or Explosion Hazards: N/A

Hazardous Combustion Products:
Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.
Fire-Fighting Equipment: 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.

Section 6 - Accidental Release Measures

Spill /Leak Procedures: Sweep, scoop or vacuum and remove.

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. Flush residual spill area with water.
Sodium Hexametaphosphate

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

Section 7 - Handling and Storage

Handling Precautions: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid prolonged or repeated contact with skin. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation.

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:

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.

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 powder or plates

Odor: odorless

Odor Threshold:

Vapor Pressure:

Vapor Density (Air=1):

pH: 6.0 – 7.7

Water Solubility: soluble

Other Solubilities:

Boiling Point:

Freezing/Melting Point: 640 °C (1184 °F)

Density: 2.181

Specific Gravity (H2O=1, at 4 °C):

Formula Weight: 611.77

Section 10 - Stability and Reactivity

Stability: Sodium Hexametaphosphate is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization will not occur.

Chemical Incompatibilities: none known

Conditions to Avoid: No information found.

Hazardous Decomposition Products: Sodium and phosphorus oxides may form when heated to decomposition.

Section 11 - Toxicological Information

Toxicity Data:

- Dermal - rabbit LD50: > 7,940 mg/kg; practically nontoxic
- Eye Irritation - rabbit: 1.3/110.0; slightly irritating
- Skin Irritation - rabbit (24-hr exp.): 0.0/8.0; nonirritating

Acute Oral Effects:

- Rat, oral, LD50: 6600 mg/kg practically nontoxic

* See NIOSH, RTECS (OY3675000), for additional toxicity data.
Section 12 - Ecological Information

Ecotoxicity: not known
Environmental Fate:
Environmental Degradation:
Soil Absorption/Mobility:

Section 13 - Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations. This material when discarded is not a hazardous waste as that term is defined by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261. Dry material may be land-filled or recycled in accordance with local, state and federal regulations. Consult your attorney or appropriate regulatory officials for information on such disposal.

Section 14 - Transport Information

Not regulated for transportation

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<td>Packing Group:</td>
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**Section 15 - Regulatory Information**

**US FEDERAL**

**TSCA**
CAS# 10124-56-8 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**
CAS# 10124-56-8: 5000 lb final RQ (Listed under Sodium phosphate, tribasic); 2270 kg final R

**SARA Section 302 Extremely Hazardous Substances**
None of the chemicals in this product have a TPQ.

**SARA Codes**
CAS # 10124-56-8: acute.

**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:**
CAS# 10124-56-8 is listed as a Hazardous Substance 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# 10124-56-8 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Massachusetts. 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:**
S 24/25 Avoid contact with skin and eyes.

**WGK (Water Danger/Protection)**
CAS# 10124-56-8: 1

**Canada - DSL/NDSL**
CAS# 10124-56-8 is listed on Canada’s DSL List.

**Canada - WHMIS**
This product does not have a WHMIS classification.

**Section 16 - Other Information**

**Disclaimer:** All information, recommendations and suggestions appearing herein are based upon sources believed to be reliable. However, it is the user's 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.