



## MATERIAL SAFETY DATA SHEET

Product Name: **Sodium Hexametaphosphate**

### SECTION I - PRODUCT IDENTIFICATION/INGREDIENTS

*Emergency Phone Number:* Chemtrec, 1-800-424-9300

*Chemical Name and Synonyms:* Sodium Hexametaphosphate, Metaphosphoric Acid, Hexasodium Salt, Glassy Sodium, Metaphosphate, SHMP, Calgon, Polyphosphate

*DOT Shipping Name:* Chemical, N.O.S. (non-regulated)

*Trade Name and Synonyms:* See Chemical Names

*Chemical Family:* Inorganic Sodium Compounds Solution

*CAS #:* 10124-56-8

*OSHA/PEL:* N/E

*ACGIH/TLV:* N/E

*NIOSH/RTECS #:* 0Y3675000

### SECTION II - PRECAUTIONARY LABELING

Health = 1 Slight

Contact = 1 Slight

Reactivity = 0 None

Flammability = 0 None

Laboratory Protective Equipment: Goggles, Lab Coat.

#### U.S. Precautionary Labeling Caution

Causes irritation. May be harmful if swallowed or inhaled. Avoid contact with eyes, skin, clothing. Keep in tightly closed container. Use with adequate ventilation. Wash thoroughly after handling.

#### International Labeling Caution

Avoid contact with eyes. After contact with skin, wash immediately with plenty of water. Keep container tightly closed.



### SECTION III - PHYSICAL DATA

*Boiling Point (F):* N/A

*Solubility in Water:* Complete

*Appearance and Odor:* Odorless solution

*Specific Gravity (H<sub>2</sub>O=1):* 1.320

*Percent Volatile:* 0 (21°C)

*Physical State:* Solution

*pH:* 5.0 – 6.0

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

*Flash Point (Closed Cup):* N/A

*Auto ignition Temperature:* N/A

*Flammable Limits:* N/A

*Special Fire Fighting Procedures:* Wear protective equipment and self-contained breathing apparatus with full-face piece operated in positive pressure mode.

*Unusual Fire and Explosion Hazards:* None identified.

*Fire Extinguishing Media:* Use extinguishing media appropriate for surrounding fire.

*Toxic Gases Produced:* Oxides of Phosphorus

*Explosion Data - Sensitivity to Mechanical Impact:* None identified

*Explosion Data - Sensitivity to Static Discharge:* None identified

### SECTION V - HEALTH HAZARD DATA

*Threshold Limit Value (TLV/TWA):* Not established

*Short-Term Exposure Limit (STEL):* Not established

*Permissible Exposure Limit (PEL):* Not established

*Effects of Overexposure:*

*Inhalation:* Irritation of upper respiratory tract

*Skin Contact:* Irritation

*Eye Contact:* Irritation

*Skin Absorption:* None identified

*Ingestion:* Headache, Nausea, Vomiting, Dizziness, Gastrointestinal irritation

*Target Organs:* None identified

*Medical Conditions Generally Aggravated by Exposure:* None identified

*Primary Routes of Entry:* Inhalation, Ingestion, Skin Contact, Eye Contact

*Toxicity of Components: (as anhydrous):*

*Oral Mouse LD50 for SCI-50:*

7250 mg/kg

*Intraperitoneal Mouse for SCI-50:*

870 mg/kg



Subcutaneous Mouse LD50 for SCI-50: 1300 mg/kg  
Intravenous Mouse LD50 for SCI-50: 62 mg/kg  
Carcinogenicity: NTP: No IARC: No 2 List: No OSHA Reg: No

**Emergency and First Aid Procedures:**

*Ingestion:* If swallowed and the person is conscious, immediately give large amounts of water. Get medical attention.

*Inhalation:* If a person breathes in large amounts, move the exposed person to fresh air.

*Skin Contact:* In case of contact, immediately wash skin with plenty of soap and water for at least 15 minutes.

*Eye Contact:* In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

Regulations: SARA/Title III Hazard Categories and Lists

Acute: No                      Chronic: No                      Flammability: No                      Pressure: No

Reactivity: No

Extremely Hazardous Substance: No

CERCLA Hazardous Substance: No

SARA 313 Toxic Chemical: No

TSCA Inventory: Yes

**SECTION VI - REACTIVITY DATA**

*Stability:* Stable

*Incompatibility:* None identified.

*Decomposition Products:* Oxides of Phosphorus

*Hazardous Polymerization:* Will not occur.

**SECTION VII - SPILL OR LEAK PROCEDURES**

*Steps to be taken in case material is released or spilled:* Wear suitable protective clothing.

Contain and absorb on absorbent material. Place in waste disposal container.

Contaminated area may be washed down with water.

*Waste Disposal Method:* Dispose in accordance with all applicable Federal, State and Local



environmental regulations.

## **SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT**

*Ventilation:* Use adequate general or local exhaust ventilation to keep fume levels as low as possible.

*Respiratory Protection:* Not generally required where adequate ventilation exists.

*Skin/Eye Protection:* Goggles recommended

*Protective Gloves:* Rubber Recommended.

## **SECTION IX - SPECIAL PRECAUTIONS**

Handling and Storage Precautions: Protect from freezing.

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