



MATERIAL SAFETY DATA SHEET

Product Name: **SCI - 50 Solution**

SECTION I - PRODUCT IDENTIFICATION/INGREDIENTS

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

Chemical Name and Synonyms: Sodium Hexametaphosphate Solution, 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

ACGIH/TLV: N/E

OSHA/PEL: N/E

NIOSH/RTECS #: 0Y3675000

Sodium Hexametaphosphate CAS #: 10124-56-8
Water CAS # 7732-18-5

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 (H₂O=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
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

Auto ignition Temperature: N/A

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.

Disclaimer:

The information and recommendations presented herein are based on sources believed to be reliable as of the date hereof. Tri-Chem Industries, Inc. makes no representation as to the completeness or accuracy thereof. It is the user's responsibility to determine the product's suitability for its intended use, the product's safe use, and the product's proper disposal. No representations or warranties not expressly set forth herein are made hereunder, whether express or implied by operation of law or otherwise, including, but not limited to any implied warranties of MERCHANTABILITY OR FITNESS. Tri-Chem Industries, Inc. neither assumes nor authorizes any other person to assume for it, any other or ADDITIONAL LIABILITY OR RESPONSIBILITY resulting from the use of, or reliance upon, this information.