



TULSTAR PRODUCTS, INC.

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MATERIAL SAFETY DATA SHEET

Company Information

Company's Information: **TULSTAR PRODUCTS, INC.**
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Emergency Phone Number: CHEMTREC 800-424-9300 (24 hours)

Product Information

Product Name: Sodium Tripolyphosphate
Synonyms: Sodium Triphosphate; Sodium Tripolyphosphate; STPP
CAS Number: 7758-29-4
Formula: $\text{Na}_5\text{P}_3\text{O}_{10}$
Appearance: White

Hazard Identification

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

Potential Health Effects

Eye: May cause eye irritation. May cause chemical conjunctivitis.
Skin: May cause skin irritation.
Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.
Inhalation: Causes respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. Can produce delayed pulmonary edema.
Chronic: Effects may be delayed.

First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin: Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.
Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician: Treat symptomatically

Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Extinguishing Media: Use agent most appropriate to extinguish fire. In case of fire use water spray, dry chemical, carbon dioxide, or appropriate foam.

Accidental Release Measures

General Information: Use proper personal protective equipment.
Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Remove all sources of ignition. Provide ventilation.

Handling & Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Keep container tightly closed. Wash clothing before reuse.
Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Store in a tightly closed container. Store protected from moisture.

Exposure Controls & Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
OSHA Vacated PELs: No OSHA Vacated PELs are listed for this chemical.
Personal Protective Equipment:
Eyes- Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin: Wear appropriate gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to minimize contact with skin.
Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Physical & Chemical Properties

Physical State: Solid
Appearance: white
Odor: odorless
pH: 9.7-9.8 @ 1% soln.
Vapor Pressure: Not applicable.
Vapor Density: Not available.
Evaporation Rate: Not available.
Viscosity: Not applicable.
Boiling Point: Not applicable.
Freezing/Melting Point: 1152°F decomposes.
Auto ignition Temperature: Not applicable.
Flash Point: Not applicable.
NFPA Rating: (est.) Health: 2; Flammability: 0; Reactivity: 0
Explosion Limits: Lower- Not available.
Upper- Not available.
Decomposition Temperature: 1152°F
Solubility: 20% @ 25°C
Specific Gravity/Density: >1.5
Molecular Formula: $\text{Na}_5\text{P}_3\text{O}_{10}$
Molecular Weight: 367.8644

Stability & Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.
Conditions to Avoid: High temperatures, incompatible materials, dust generation, moisture, exposure to air, exposure to moist air or water.
Incompatibilities with Other Materials: Strong oxidizers, moisture.
Hazardous Decomposition Products: Oxides of phosphorus, irritating and toxic fumes and gases, toxic fumes of sodium oxide.
Hazardous Polymerization: Has not been reported.

Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Part. Additionally, waste generators must consult state and local hazardous waste regulations ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.