



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
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Safety Data Sheet (MSDS)

- Sodium Tripolyphosphate (STPP)

According to: GB/T 16483, GB/T 17519; GHS (Rev.9), UN GHS
Product Name: Sodium Tripolyphosphate (STPP)
CAS Number: 7758-29-4
Product Number: STPP-20260220
Brand: SIGALD
Revision Date: 20 February 2026
Supplier: NEWAY SINOPHC TECH. LIMITED
Address: RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
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SECTION 1: Identification

1.1 Product Identifiers

- Name: Sodium Tripolyphosphate
- Synonyms: STPP; Pentasodium triphosphate; Sodium triphosphate
- CAS No.: 7758-29-4
- EINECS No.: 231-838-7

1.4 Uses and Restrictions

- **Uses:** Detergent builder, food additive (E451i), water treatment chemical, ceramic deflocculant.
- **Restrictions:** Food grade use must comply with specific regulatory limits. Avoid release to aquatic environments.

SECTION 2: Hazards Identification

2.1 GHS Classification

- **Eye irritation (Category 2):** H319 - Causes serious eye irritation.
- **Specific target organ toxicity (single exposure) - Respiratory tract irritation (Category 3):** H335 - May cause respiratory irritation.
- **Hazardous to the aquatic environment (long-term) (Category 1):** H410 - Very toxic to aquatic life with long lasting effects.

2.2 Label Elements

- **Pictograms:** (Exclamation Mark), (Environment)
- **Signal Word:** WARNING
- **Precautionary Statements:**
 - P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
 - P280: Wear protective gloves/eye protection/face protection.
 - P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.
 - P337+P313: If eye irritation persists: Get medical advice/attention.
 - P405: Store locked up.
 - P501: Dispose of contents/container to an approved waste disposal plant.

SECTION 3: Composition/Information on Ingredients

- **Substance:** Pure Chemical.
- **Content:** Sodium Tripolyphosphate (100%).
- **CAS No.:** 7758-29-4.
- **Hazardous Components:** None (only hazardous as classified in Section 2).

SECTION 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If breathing is difficult, give oxygen. If coughing or irritation persists, call a physician.
- **Skin Contact:** Remove contaminated clothing. Wash skin thoroughly with plenty of soap and water. If irritation occurs, get medical attention.



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- **Eye Contact:** Rinse eyes continuously with plenty of running water for at least 15 minutes, holding eyelids open. Remove contact lenses if present. Get medical attention immediately if irritation persists.
- **Ingestion:** Rinse mouth with water. Do NOT induce vomiting unless directed to do so by medical personnel. If large amounts are ingested, call a physician or poison center. (Note: Food grade is safe for consumption at regulated levels.)

SECTION 5: Firefighting Measures

- **Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or foam.
- **Unsuitable Media:** None known.
- **Hazards in Fire:** In case of fire, decomposes to produce toxic phosphorus oxides (PO_x) and sodium oxide fumes.
- **Firefighter Precautions:** Wear self-contained breathing apparatus (SCBA) and full fire protective clothing. Prevent runoff from fire-fighting water from entering waterways or drains.

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Wear dust mask, safety goggles, and nitrile gloves. Avoid generating dust.
- **Environmental Precautions: Prevent material from entering drains, sewers, rivers, or lakes.** This material causes eutrophication.
- **Methods for Clean-Up:** Sweep up and shovel into suitable closed containers for recovery or disposal. Avoid creating dust clouds. Flush area with water only if necessary, but contain the wash water for treatment.

SECTION 7: Handling and Storage

- **Handling:** Use in a well-ventilated area. Avoid inhalation of dust. Wash hands before breaks and immediately after handling the product.
- **Storage:** Store in a dry place. Keep container tightly closed to prevent moisture absorption and caking. Store away from strong acids (e.g., hydrochloric acid, sulfuric acid) to prevent gas evolution.

SECTION 8: Exposure Controls/Personal Protection

- **Occupational Exposure Limits:** No specific OEL for STPP. ACGIH TLV for Phosphates (inhalable dust) is 10 mg/m³ (total dust).
- **Engineering Controls:** Use local exhaust ventilation to keep dust concentrations low.
- **PPE:**
 - **Eyes:** Safety glasses or chemical goggles.
 - **Skin:** Chemical-resistant gloves (nitrile or PVC).
 - **Respiratory:** Dust mask (P1/P2) if dust generation is high.

SECTION 9: Physical and Chemical Properties

- **Appearance:** White crystalline powder.
- **Odor:** Odorless.
- **pH:** 9.5 - 10.5 (1% solution).
- **Melting Point:** 622°C (decomposes).
- **Boiling Point:** Not applicable (decomposes).
- **Flash Point:** Not flammable.
- **Relative Density:** ~2.5 g/cm³ (solid).
- **Solubility in Water:** 15 g/100 mL at 25°C.
- **Vapor Pressure:** < 0.01 hPa (20°C).
- **Hygroscopicity:** Yes.

SECTION 10: Stability and Reactivity

- **Stability:** Stable under normal conditions. Hygroscopic.



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- **Hazardous Reactions:** Reacts with strong acids to produce phosphoric acid and potentially toxic phosphine gas if heated strongly with reducing agents.
- **Hazardous Decomposition:** On combustion, produces phosphorus pentoxide (PO_x) and sodium oxide.

SECTION 11: Toxicological Information

- **Acute Toxicity:** LD₅₀ (Oral, Rat) > 7,400 mg/kg (Low toxicity).
- **Skin Irritation:** Non-irritating to skin.
- **Eye Irritation:** Causes moderate to severe eye irritation (due to alkalinity).
- **Carcinogenicity:** IARC, NTP, OSHA: Not classified as a carcinogen.
- **Other Effects:** May cause gastrointestinal disturbance if ingested in large quantities.

SECTION 12: Ecological Information

- **Aquatic Toxicity:** H410 - Very toxic to aquatic life. Causes eutrophication (excessive algae growth) leading to oxygen depletion in water bodies.
- **Persistence and Degradability:** Slowly biodegradable under aerobic conditions.
- **Bioaccumulation:** No bioaccumulation potential.

SECTION 13: Disposal Considerations

- Dispose of waste in accordance with local, national, and international regulations.
- Due to its environmental hazard (H410), it should not be released into the environment.
- Dispose of as non-hazardous solid waste in a licensed landfill or incinerator equipped to handle phosphorus oxides.

SECTION 14: Transport Information

- **UN Number:** Not applicable (Non-Hazardous for transport).
- **UN Proper Shipping Name:** Not dangerous goods.
- **Transport Class:** N/A.
- **Packing Group:** N/A.
- **Marine Pollutant:** Yes (due to environmental hazard, but not regulated as such for transport).
- **Notes:** Although non-hazardous, care must be taken to prevent spillage into water during transport.

SECTION 15: Regulatory Information

- **China:** Complies with GB 25566 (Food Safety Standard) and GB/T 9983 (Industrial Standard).
- **EU:** REACH registered. Complies with CLP. Food grade complies with (EC) 1333/2008 (Food Additives).
- **USA:** TSCA listed. FDA approved as a food additive (21 CFR § 182.6789).

SECTION 16: Other Information

- **Revision Date:** 20 February 2026
- **Version:** 1.0
- **Disclaimer:** The information contained herein is based on the present state of our knowledge and is provided in good faith. It is intended for use by persons having technical skill at their own discretion and risk.