

# Material Safety Data Sheet

## Sodium Tripolyphosphate

### Section 1: Chemical Product and Company Identification

<b>Product Name:</b>	Sodium Tripolyphosphate
<b>Catalog Codes:</b>	SLS1489
<b>CAS#:</b>	7758-29-4
<b>RTECS:</b>	YK4570000
<b>TSCA:</b>	TSCA 8(b) inventory: Sodium Tripolyphosphate
<b>CI#:</b>	Not applicable.
<b>Synonym:</b>	Sodium triphosphate
<b>Chemical Name:</b>	Triphosphoric acid, pentasodium salt
<b>Chemical Formula:</b>	Na <sub>5</sub> P <sub>3</sub> O <sub>10</sub>

### Section 2: Composition and Information on Ingredients

#### Composition:

Name	CAS #	% by Weight
Sodium Tripolyphosphate Food Grade	7758-29-4	100

**Toxicological Data on Ingredients:** Sodium Tripolyphosphate: ORAL (LD50): Acute: 3900 mg/kg [Rat.]. 3100 mg/kg [Mouse].

### Section 3: Hazards Identification

#### Potential Acute Health Effects:

Very hazardous in case of eye contact (irritant). Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (sensitizer, permeator).

Inflammation of the eye is characterized by redness, watering, and itching.

#### Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance is toxic to lungs.

Repeated or prolonged exposure to the substance can produce target organs damage.

### Section 4: First Aid Measures

#### Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment.

Seek medical attention.

#### Skin Contact:

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the

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contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

**Serious Skin Contact:**

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

**Inhalation:**

Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

**Serious Inhalation:**

Not available.

**Ingestion:**

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

**Serious Ingestion:**

Not available.

## **Section 5: Fire and Explosion Data**

**Flammability of the Product:** Non-flammable.

**Auto-Ignition Temperature:** Not applicable.

**Flash Points:** Not applicable.

**Flammable Limits:** Not applicable.

**Products of Combustion:** Not available.

**Fire Hazards in Presence of Various Substances:**

Not applicable.

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions:**

Not applicable.

**Special Remarks on Fire Hazards:**

Keep container tightly closed.

**Special Remarks on Explosion Hazards:**

Not available.

## **Section 6: Accidental Release Measures**

**Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:**

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

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## Section 7: Handling and Storage

### Precautions:

Do not ingest. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids.

### Storage:

No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.

## Section 8: Exposure Controls/Personal Protection

### Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### Exposure Limits:

Not available.

## Section 9: Physical and Chemical Properties

<b>Physical state and appearance:</b>	Solid. (Solid powder.)
<b>Odor:</b>	Odorless.
<b>Taste:</b>	Alkaline. (Slight.)
<b>Molecular Weight:</b>	367.86 g/mole
<b>Color:</b>	White.
<b>pH (1% soln/water):</b>	8 [Basic.]
<b>Boiling Point:</b>	Decomposes.
<b>Melting Point:</b>	622°C (1151.6°F)
<b>Critical Temperature:</b>	Not available.
<b>Specific Gravity:</b>	Not available.
<b>Vapor Pressure:</b>	Not applicable.
<b>Vapor Density:</b>	Not available.
<b>Volatility:</b>	Not available.
<b>Odor Threshold:</b>	Not available.
<b>Water/Oil Dist. Coeff.:</b>	Not available.
<b>Ionicity (in Water):</b>	Not available.

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**Dispersion Properties:** See solubility in water.  
**Solubility:** Easily soluble in hot water.  
Soluble in cold water.  
Very slightly soluble in methanol.  
Insoluble in diethyl ether, n-octanol.

## **Section 10: Stability and Reactivity Data**

**Stability:**

The product is stable.

**Instability Temperature:**

Not available.

**Conditions of Instability:**

Not available.

**Incompatibility with various substances:**

Reactive with oxidizing agents, acids.

Slightly reactive to reactive with organic materials, metals.

**Corrosivity:**

Corrosive in presence of copper.

Slightly corrosive to corrosive in presence of steel, of aluminum, of zinc.

Non-corrosive in presence of glass.

**Special Remarks on Reactivity:**

Not available.

**Special Remarks on Corrosivity:**

Not available.

**Polymerization:**

No.

## **Section 11: Toxicological Information**

**Routes of Entry:**

Eye contact. Inhalation. Ingestion.

**Toxicity to Animals:**

Acute oral toxicity (LD50): 3100 mg/kg [Mouse].

**Chronic Effects on Humans:**

The substance is toxic to lungs.

**Other Toxic Effects on Humans:**

Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Slightly hazardous in case of skin contact (sensitizer, permeator).

**Special Remarks on Toxicity to Animals:**

Not available.

**Special Remarks on Chronic Effects on Humans:**

Not available.

**Special Remarks on other Toxic Effects on Humans:**

Material is irritating to mucous membranes and upper respiratory tract.

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## Section 12: Ecological Information

**Ecotoxicity:**

Not available.

**BOD5 and COD:**

Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:**

The products of degradation are more toxic.

**Special Remarks on the Products of Biodegradation:**

Not available.

## Section 13: Disposal Considerations

**Waste Disposal:** Not available.

## Section 14: Transport Information

**This item is not restricted as per special provision A3 of IATA.**

**INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)**

**PROPER SHIPPING NAME:** Not regulated

**PRIMARY HAZARD CLASS / DIVISION:** Not applicable

**UN/NA NUMBER:** None

**LABEL(S):** Not applicable

**PLACARD(S):** Not applicable

**MARKING(S):** Not applicable

**ADDITIONAL INFORMATION:** Not regulated.

## Section 15: Other Regulatory Information

**Federal and State Regulations:** Pennsylvania RTK: Sodium Tripolyphosphate Food Grade  
Massachusetts RTK: Sodium Tripolyphosphate Food Grade  
TSCA 8(b) inventory: Sodium Tripolyphosphate Food Grade  
CERCLA: Hazardous substances.: Sodium Tripolyphosphate Food Grade

**Other Regulations:**

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**Other Classifications:**

**WHMIS (Canada):** CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

**DSCL (EEC):**

R38- Irritating to skin.

R41- Risk of serious damage to eyes.

**HMIS (U.S.A.):**

**Health Hazard:** 2

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**Fire Hazard:** 0  
**Reactivity:** 0  
**Personal Protection:** E  
**National Fire Protection Association (U.S.A.):**

**Health:** 2  
**Flammability:** 0  
**Reactivity:** 0

**Specific hazard:**

**Protective Equipment:**

Gloves.

Lab coat.

Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Splash goggles.

### **Section 16: Other Information**

**References:** Hawley, G.G.. The Condensed Chemical Dictionary, 11e ed., New York N.Y., Van Nostrand Reinold, 1987.

**Other Special Considerations:** Not available.

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