



## MAHBAD COMPANY

### Material Safety Data Sheet

# Sodium Tripolyphosphate

#### 1: Identification of the substance/preparation and of the company/undertaking

**Product Name:** Sodium Tripolyphosphate  
**Dangerous Goods Class :** None Allocated  
**Chemical Name:** Triphosphoric acid, pentasodium salt  
**Manufacturer/Supplier/Distributor information :**  
Mahbad Mehr Tejarat Co.  
**Tel:** +982122889808  
**Email:** info@mahbadtco.com

#### 2: Composition and Information on Ingredients

**Chemical Formula:**  $\text{Na}_5\text{P}_3\text{O}_{10}$

**Composition:**

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

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

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

**Potential Chronic Health Effects:**

**CARCINOGENIC EFFECTS:** N/A.

**MUTAGENIC EFFECTS :** N/A .

**TERATOGENIC EFFECTS:** N/A .

**DEVELOPMENTAL TOXICITY :** N/A .

The substance is toxic to lungs. Repeated or prolonged exposure to the substance can produce target organs damage.

#### 4: First Aid Measures



## MAHBAD COMPANY

### Material Safety Data Sheet

#### 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 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:** N/A .

#### 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:** N/A .

### 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:** : N/A .

**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:** N/A . **Risks of explosion of the product in presence of static discharge:** N/A .

**Fire Fighting Media and Instructions:** Not applicable.

**Special Remarks on Fire Hazards:** Keep container tightly closed.

**Special Remarks on Explosion Hazards:** N/A .

### 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:



## MAHBAD COMPANY

### Material Safety Data Sheet

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.

#### 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.

#### 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:** N/A .

#### 9: Physical and Chemical Properties

**Physical state and appearance:** Solid. (Solid powder.)

**Odor:** Odorless.

**Taste:** Alkaline. (Slight.)

**Molecular Weight:** 367.86 g/mole

**Color:** White.

**pH (1% soln/water):** 9.2

**Boiling Point:** Decomposes.

**Melting Point:** 622°C

**Critical Temperature:** N/A .

**Specific Gravity:** N/A

**Vapor Pressure:** Not applicable.



## MAHBAD COMPANY

### Material Safety Data Sheet

**Vapor Density:** N/A .

**Volatility:** N/A .

**Odor Threshold:** N/A .

**Water/Oil Dist. Coeff.:** N/A

**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.

#### 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** N/A .

**Conditions of Instability:** N/A

**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:** N/A .

**Special Remarks on Corrosivity:** N/A .

**Polymerization:** No.

#### 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:** N/A .

**Special Remarks on Chronic Effects on Humans:** N/A .

**Special Remarks on other Toxic Effects on Humans:** Material is irritating to mucous membranes and upper respiratory tract.

#### 12: Ecological Information

**Eco toxicity:** N/A .

**BOD5 and COD:** N/A .

**Products of Biodegradation:**

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



## MAHBAD COMPANY

### Material Safety Data Sheet

**Toxicity of the Products of Biodegradation:** The products of degradation are more toxic.

**Special Remarks on the Products of Biodegradation:** N/A .

#### 13: Disposal Considerations

**Waste Disposal Method:**

Chemical additions, processing or otherwise altering this material may make the waste management.

#### 14: Transport Information

**IATA:** Not dangerous goods Not classified as a substance hazardous for transport.

**DOT Classification:** Not a DOT controlled material

**Identification:** Not applicable.

**Special Provisions for Transport:** Keep material out of sewers, storm drains, surface waters and soil.

#### 15: Regulatory Information

**DSCL (EEC):**

R38- Irritating to skin. R41- Risk of serious damage to eyes.

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

**Hazard:** 2

**Fire Hazard:** 0

**Reactivity:** 0

**Personal Protection:** E

**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.

#### 16: Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing MSDS:** Product safety department.