



# Material Safety Data Sheet

## Trisodium Phosphate MSDS

### 1. SUBSTANCE IDENTIFICATION

- 1.1. Product Name: [Trisodium Phosphate](#)
- 1.2. Description: Trisodium Phosphate is a inorganic compound manufactured through chemical synthesis.
- 1.3. Chemical Formula: Na<sub>3</sub>PO<sub>4</sub>
- 1.4. Molecular weight: 163.94
- 1.5. CAS #: 7601-54-9
- 1.6. EINECS #: 231-509-8
- 1.7. Manufactured by: Foodchem International Corporation, Shanghai China.
- 1.8. Supplied by: Foodchem International Corporation, Shanghai China.
- 1.9. Usage: In food as food supplements

### 2. Composition

- 2.1. Trisodium Phosphate: 97.0%
- 2.2. Hazardous impurities: Negative

### 3. Physical/Chemical Characteristics

- 3.1. Physical State: Powder
- 3.2. Appearance: White powder
- 3.3. Odor: Odorless
- 3.4. pH: 11.8 (1% Solution @ 25oC)
- 3.5. Melting point/range: 1340 ° C
- 3.6. Boiling point: Not applicable
- 3.7. Bulk density: 2.536 g/cm<sup>3</sup>
- 3.8. Solubility: 12 g/100 g (20 ° C)

### 4. Stability/Reactivity

- 4.1. Chemical Stability: Stable under normal temperatures and pressures
- 4.2. Shelf Life: 24 months period
- 4.3. Hazardous decomposition: Oxides of phosphorus and sodium at high temperatures
- 4.4. Hazardous polymerization: Will not occur
- 4.5. Incompatible with: Strong acids, magnesium metal

### 5. Handling/Storage

- 5.1. Storage: kept in dry, cool, and shaded place with original packaging, avoid moisture, store at room temperature.
- 5.2. Handling precaution: Avoid contact with eyes, skin and clothing. Avoid breathing in dust. Use with adequate ventilation.

### 6. Exposure Control

- 6.1. Engineering Controls: Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided. Supply sufficient replacement air to make up for air removed by exhaust systems.
- 6.2. Respiratory protection: NIOSH/MSHA or European Standard EN 149 approved respirator
- 6.3. Eye Protection: Protective eyeglasses or chemical safety goggles
- 6.4. Skin Protection: Wear appropriate protective gloves and clothes to minimize skin contact.
- 6.5. Other: Consult professionals if Trisodium Phosphate need to be handled under some special conditions.

### 7. Hazards Identification



- 7.1. Hazardous overview: Trisodium Phosphate is not classified as a Dangerous Substance
- 7.2. Contact with eyes: May cause severe eye irritation
- 7.3. Contact with skin: May cause severe irritation, especially if skin is moist or wet.
- 7.4. Ingestion: May cause burns of the mouth, throat and stomach.
- 7.5. Inhalation: Material is irritating to mucous membranes and upper respiratory tract. Exposure can cause coughing, chest pains and difficulty breathing.
- 7.6. Other: Not Applicable

## 8. First Aid Measures

- 8.1. Contact with eyes: Flush immediately with plenty of water for 20 minutes and seek medical advice
- 8.2. Contact with skin: Wash the affected area with water, remove contaminated clothing and launder before re-use. Seek medical advice if irritation develops or persists.
- 8.3. Ingestion: Rinse mouth thoroughly with water and drink water afterwards. Have conscious person drink several glasses of water or milk.
- 8.4. Inhalation: Remove from exposure, move to fresh air and seek medical advice immediately.

## 9. Fire and Explosion Data

- 9.1. General information: Product does not burn
- 9.2. Flash point: Not applicable
- 9.3. Ignition control: Not Applicable
- 9.4. Dust control: Keep the handling area with adequate ventilation
- 9.5. Extinguishing Media: Water spray, dry chemical or carbon dioxide
- 9.6. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container

## 10. Transport Information

- 10.1. No special requirements and no restrictions on transportation by land, sea or air.

## 11. Ecological Information

- 11.1. Trisodium Phosphate is fully biodegradable.

## 12. Other Information

- 12.1. This Safety Data Sheet of Trisodium Phosphate is based upon a limited review of Foodchem International Corporation files and standard Toxicological handbooks. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Foodchem International Corporation be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Foodchem International Corporation has been advised of the possibility of such damages.

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