

## Material Safety Data Sheet (MSDS) - Mono Sodium Phosphate

### SECTION 1: Chemical Product and Company Identification

**Product Name :** Mono Sodium phosphate

**CAS# :** 7558-80-7

**RTECS :** WA1900000

**TSCA :** TSCA 8(b)

**Inventory :** Sodium phosphate monobasic, Anhydrous

**CI# :** Not available.

**Synonym:** Sodium phosphate monobasic; sodium dihydrogen phosphate; Monosodium Dihydrogen Phosphate; Monosodium Hydrogen Phosphate; Monosodium Orthophosphate, Phosphoric Acid, Monosodium Salt

**Chemical Name:** Sodium Phosphate Monobasic, Anhydrous

**Chemical Formula:** NaH<sub>2</sub>PO<sub>4</sub>

**Supplier:** PURE CHEMICALS CO.

CHENNAI, TAMILNADU, INDIA

**24 Hour Health Emergency** (91) 8939878447

(91) 9444038694

**Transportation  
Phone**                      **Emergency** (91) 9444038517

Company Name	Place	EMERGENCY TELEPHONE NUMBER
Pure Chemicals Co.	CHENNAI	Day Emergency - 044-26161803-26161809

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

**Composition:**

Name	CAS #	% by Weight
Sodium phosphate monobasic, Anhydrous	112-34-5	100

### SECTION 3: HAZARDS IDENTIFICATION

**Potential Acute Health Effects:** Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:****CARCINOGENIC EFFECTS:** Not available.**MUTAGENIC EFFECTS:** Not available.**TERATOGENIC EFFECTS:** Not available.**DEVELOPMENTAL TOXICITY:** Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

**SECTION 4: FIRST AID MEASURES****Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

**Skin Contact:**

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Serious Skin Contact: Not available.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

**Ingestion:**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

**SECTION 5: FIRE-FIGHTING MEASURES****Flammability of the Product :** Non-flammable.**Auto-Ignition Temperature :** Not applicable.**Flash Points :** Not applicable.**Flammable Limits :** Not applicable.**Products of Combustion :** When heated to decomp ... emits toxic fumes of phosphoxides and sodium oxide.**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:** Not available. **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.

## SECTION 7: HANDLING AND STORAGE

**Precautions:**

Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as acids, alkalis.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area.

## 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:** Safety glasses. 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.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance : Solid. (crystalline powder)

Odor : Odorless.

Taste : Not available.

Molecular Weight : 119.98 g/mole

Color : White.

pH (1% soln/water) : Not available.

Boiling Point : Not available.

Melting Point : Not available.

Critical Temperature : Not available.

Specific Gravity : Not available.

Vapor Pressure : Not applicable.

Vapor Density : Not available.

Volatility : Not available.

Odor Threshold : Not available.

Water/Oil Dist. Coeff. : Not available.

Ionicity (in Water) : Not available.

Dispersion Properties : See solubility in water.

Solubility : Easily soluble in cold water, hot water.

## SECTION 10: STABILITY AND REACTIVITY

**Stability** : The product is stable.

**Instability Temperature** : Not available.

**Conditions of Instability** : Incompatible materials, excess heat, dust generation

**Incompatibility with various substances**: Reactive with acids, alkalis.

**Corrosivity** : Non-corrosive in presence of glass.

**Special Remarks on Reactivity** : It is a neutralizing agent for acids and caustics. Also incompatible with magnesium and methenamine, and carbonates.

**Special Remarks on Corrosivity** : When wet, mild steel or brass may be corroded.

**Polymerization** : Will not occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Routes of Entry** : Inhalation/ Ingestion.

**Toxicity to Animals** : Acute oral toxicity (LD50): 8290 mg/kg [Rat].

**Chronic Effects on Humans** : Not available.

**Other Toxic Effects on Humans** : Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

**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:**

Acute Potential Health Effects: Skin: May cause skin irritation. Eye: Dust may cause eye irritation. Inhalation: It is considered a low hazard for usual industrial handling. Dust may cause respiratory tract irritation and may affect respiration (mechanically impede respiration). Ingestion: It is considered a low hazard for usual industrial handling and systemic reactions are unlikely when ingested (because they are slowly and incompletely absorbed in the intestinal tract). The most frequently seen effect is gastrointestinal irritation with abdominal pain and cramping, vomiting, diarrhea. If a significant amount of phosphate is absorbed, the following may occur: mineral imbalance in the body, adversely affecting the osmotic pressure of body fluids resulting in hyperphosphatemia, hypocalcemia, hypomagnesemia. Severe hyperphosphatemia and hypocalcemia may result in tetany, seizures, severe dehydration, metabolic acidosis, hypernatremia, lethargy, and hyperpyrexia, carpal spasm, and possible. May also affect the cardiovascular system (hypotension, tachycardia, bradycardia, dysrhythmias). The estimated fatal dose is 50 grams. Chronic Potential Health Effects: No information was available

**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 product itself and its products of degradation are not toxic.

**Special Remarks on the Products of Biodegradation:** Not available.

**SECTION 13: DISPOSAL CONSIDERATIONS****Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**SECTION 14: TRANSPORT INFORMATION**

**DOT Classification :** Not a DOT controlled material (United States).

**Identification :** Not applicable.

**Special Provisions for Transport :** Not available.

## SECTION 15: REGULATORY INFORMATION

**Federal and State Regulations:** TSCA 8(b) inventory: Sodium phosphate monobasic, Anhydrous

**Other Regulations: EINECS:** This product is on the European Inventory of Existing Commercial Chemical Substances.

**Other Classifications:**

**WHMIS (Canada):** Not controlled under WHMIS (Canada).

**DSCL (EEC):**

This product is not classified according to the EU regulations. Not applicable.

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

**Health Hazard : 1**

**Fire Hazard : 0**

**Reactivity : 0**

**Personal Protection : E**

**National Fire Protection Association (U.S.A.):**

**Health : 1**

**Flammability : 0**

**Reactivity : 0**

**Specific hazard :**

**Protective Equipment:**

Gloves, Lab coat, Dust respirator. Be sure to use an approved/certified respirator or equivalent Safety glasses.

## SECTION 16: OTHER INFORMATION

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