



PO Box 32 ◀ 105 Liberty Street ◀ Winona, MN 55987 ◀ Phone: 800-533-0027 or 507-454-5640 ◀ Fax: 507-454-5641

## FOR CHEMICAL EMERGENCY

Involving Shipping and Handling Spills, Leak, Fire, Exposure or Accident

Call CHEMTREC 1-800-424-9300

Complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200

### Section 1 - Product Identification

Product Name: Trisodium Phosphate, all sizes

Product ID: 0200X

### Section 2 - Composition/Information on Ingredients

CHEMICAL NAME (COMMON NAME)	WT %	CAS NO.	EINECS NO.	RISK PHRASE
Trisodium Phosphate Anhydrous	100	7601-54-9	231-509-8 R34R37/38	

### Section 3 - Hazards Identification

EC CLASSIFICATION XI: Irritant

SAFETY PHRASE: S26 S36/37/39

HUMAN HEALTH EFFECTS: This product causes eye burns and may cause skin irritation. Inhalation of dust may cause coughing and sneezing. Inhalation may cause respiratory irritation. Ingestion may cause severe nausea, vomiting, abdominal discomfort and burning sensation.

ENVIRONMENTAL EFFECTS: This material is not expected to produce any significant adverse environmental effects when recommended use instructions are followed.

### Section 4 - First Aid Measures

WARNING STATEMENTS: DANGER! CAUSES EYE IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION.

GENERAL: Treatment is symptomatic and supportive. The product causes eye and skin irritation. May be harmful if swallowed. This product is destructive to mucus membranes.

EYES: In case of contact with eyes, immediately flush with plenty of water for at least 15 minutes. Seek medical attention if irritation, pain, swelling, lacrimation, or photophobia persists.

SKIN: Immediately remove this from skin and wash with plenty of water. Remove contaminated clothing. Wash clothing and thoroughly clean shoes before reuse.

INHALATION: Inhalation of the dust may cause coughing and sneezing. Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

INGESTION: Give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. DO NOT induce vomiting. Get medical attention immediately. Contact a Poison Control Center. May cause severe nausea, vomiting, abdominal discomfort, and burning sensation.

### Section 5 - Fire Fighting Measures

EXTINGUISHING MEDIA: water spray, dry chemical, carbon dioxide, or appropriate foam.

UNSUITABLE EXTINGUISHABLE MEDIA: Non-combustible. No Special requirement.

### Section 6 - Accidental Release Measures

PERSONAL PRECAUTIONS: Avoid unnecessary exposure and remove all material from eyes, skin and clothing.

ENVIRONMENTAL PRECAUTIONS: Avoid discharge into the environment.

METHOD FOR CLEANING UP: Sweep, scoop or vacuum spill material, contaminated soil and other contaminated material and place in clean, dry containers for removal. If possible, complete cleanup on a dry basis.

### Section 7 - Handling and Storage

HANDLING: Do not get in eye, on skin, or on clothing. Avoid breathing dust. Do not taste or swallow. Use only in adequate ventilation. Wash thoroughly after handling. Remove material from clothing.

ENGINEERING MEASURES: Ensure adequate ventilation. The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.

STORAGE: Store in cool, dry place to maintain product performance. Product should be stored in sealed containers and be kept free of water due to product corrosively.

### Section 8 - Exposure Controls and Personal Protection

OCCUPATIONAL EXPOSURE LIMIT: OSHA and ACGIH have not established specific exposure limits for this material. However, OSHA and ACGIH have established limits for particulates not otherwise regulated (PNOR) and particulates not otherwise classified (PNOC) which are the least stringent exposure limits applicable to dusts.

ACGIH TLV 10 mg/m<sup>3</sup> (inhalable) 8-hr TWA 3 mg/m<sup>3</sup> (respirable) 6-hr TWA

OSHA PEL 15 mg/m<sup>3</sup> (total dust) 8-hr TWA 5 mg/m<sup>3</sup> (respirable) 8-hr TWA

RESPIRATORY PROTECTION: Avoid breathing dust. In case of insufficient ventilation, use approved respiratory protective equipment.

HAND/SKIN PROTECTION: Wear protective gloves is recommended; wash hands and contaminated skin thoroughly after handling.

EYE PROTECTION: Wear appropriate protective eyeglasses or chemical safety goggles.

## Section 9 - Physical and Chemical Properties

CHEMICAL FORMULA: Na<sub>3</sub>PO<sub>4</sub>

ODOR: Odorless

COLOR: White

FORM: Free-flowing granular product

pH: 11.5

MELTING POINT: 1340° F

## Section 10 - Stability and Reactivity

Product is stable under normal conditions of storage and handling.

CONDITIONS TO AVOID: Store product in dry areas away from moisture. This product could be corrosive to aluminum surfaces due to high pH. When wet, mild steel and brass may be corroded.

MATERIALS TO AVOID: Incompatible with strong mineral acids, aluminum and moisture.

HAZARDOUS DECOMPOSITION: Oxides of sodium and phosphorus may form when heated decomposition.

## Section 11 - Toxicological Information

LABORATORY DATA: Data From ICL Performance Products LP Single-dose (acute) animal studies with this material are given below:

ORAL – RAT LD50: 4,150 MG/KG; Slightly Toxic

DERMAL – RABBIT LD: >7,940 MG/KG; Practically Nontoxic

EYE IRRITATION – RABBIT: Corrosive

SKIN IRRITATION – RABBIT: 2.2/8.0 (24-hr. exp.); Slightly

Irritating

This product produced no mutagenic effects in standard assays using fruit flies.

This material has been defined as a hazardous chemical under the criteria of the OSHA Hazard Communication standard (29 CFR 1910.1200).

## Section 12 - Ecological Information

ENVIRONMENTAL TOXICITY: INVERTEBRATE: 50-hr EC50 Daphnia Magna: 177 mg/L; Practically Nontoxic

WARMWATER FISH: 96-hr LC50 Bluegill Sunfish: 220 mg/L; Practically Nontoxic

COLDWATER FISH: 96-hr LC50 Rainbow Trout: 120 mg/L; Practically Nontoxic

ENVIRONMENTAL FATE: Inorganic compounds in contact with the soil, sub-surface or surface waters may be taken up by plants and utilized as essential nutrients. Phosphates may also form precipitates, usually with calcium or magnesium. The resultant compounds are insoluble in water and become a part of the soil or sediment. The term biodegradability, as such, is not applicable to inorganic compounds.

## Section 13 - Disposal Considerations

EUROPEAN WASTE CATALOG NUMBER: Unknown

DISPOSAL CONSIDERATIONS: This material when discovered is not a hazardous waste as that term is defined by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261. Dry material may be land-filled or recycled in accordance with local, state and federal regulations. Consult your attorney or appropriate regulatory officials for information on such disposal.

## Section 14 - Transport Information

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

ROAD/RAIL, SEA AND AIR

IMDG/UN Environmentally Hazardous Substance, solid, n.o.s., UN 3077, Class 9, PG III

ICAO/IATA PASSENGER AIRCRAFT. Environmentally Hazardous Substance, solid, n.o.s. UN 3077, Class 9, PG III

RID/ADR Unknown

CANADIAN TDG Sodium Phosphate Tribasic, NA9148, Class 9.2, PG III+

US DOT Environmentally Hazardous Substance, solid, n.o.s. (contains Sodium Phosphate Tribasic), UN 3077, 9, PG III\*

+ Applies only to packages containing a Reportable Limit of 230 kg or more.

\* Applies only to packages containing a Reportable Quantity (RQ) of 5000 lb. or more.

## Section 15 - Regulations

CHEMICAL INVENTORY

USA TSCA: Listed CANADA DSL: Listed EC: Listed

WHMIS CLASSIFICATION: D2(B) Materials Causing Other Toxic Effects

SARA HAZARD NOTIFICATION

HAZARD CATEGORIES UNDER TITLE III RULES (40 CFR 370): Immediate

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: Not Applicable

SECTION 313 TOXIC CHEMICAL(S): Not Applicable

CERCLA REPORTABLE QUANTITY: 5,000 lb. of sodium phosphate, tribasic

## Section 16 - Other Information

NFPA RATING Health 3 Fire 0 Reactivity 0

HMIS RATING Health 3 Fire 0 Reactivity 0

*The information and recommendations in this Material Safety Data Sheet are based upon data believed to be correct and does not relate to its use in combination with any other material or process. Since use conditions vary, we assume no liability for failure to follow product use direction and safety precautions. As data, standards and regulations change; NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.*