



**ICL Performance  
Products LP**

## *Material Safety Data Sheet*



**RESPONSIBLE CARE**  
OUR COMMITMENT TO SUSTAINABILITY

### **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

#### Identification

Product Name: TRISODIUM PHOSPHATE ANHYDROUS  
Reference Number: AST10064  
Date: April 20, 2012

#### Use of the substance or preparation

Industrial and household cleaners, water conditioner, photograph developer bath ingredient, paint remover, denture cleaners, emulsifier and pH control agent for foods. May be used to treat drinking water.

#### Company/Undertaking Identification

**ICL PERFORMANCE PRODUCTS LP**  
622 Emerson Road - Suite 500  
St. Louis, Missouri 63141

#### Emergency telephone

In USA call CHEMTREC: 1 800 424 9300

Outside the USA, including ships at sea, call CHEMTREC's international and maritime telephone number (collect calls accepted): +1 (703) 527-3887

In Canada call CANUTEC: 1 613 996 6666

General Information: +1 800 244 6169 (Worldwide)

### **2. HAZARDS IDENTIFICATION**

#### **Classification of the substance/preparation**

GHS



**Warning**

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

#### **Prevention:**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.

*Product manufactured and packaged after December 1, 2010 has GHS hazard identification and classification labels reflecting results from recent eye irritation tests, however there may still be product on the market with the former classification on the packaging.*

**Former EU classification:**

Xi - Irritant  
R34 Causes burns  
R37/38 Irritating to respiratory system and skin  
R41 Risk of serious damage to eyes  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical attention  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Composition**

<u>Substance</u>	<u>CAS No.</u>	<u>%w/w</u>	<u>EINECS No.</u>
Trisodium Phosphate Anhydrous	7601-54-9	100	231-509-8

**4. FIRST AID MEASURES****General**

Treatment is symptomatic and supportive.

**Eye contact**

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

**Skin contact**

Immediately remove this material 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**

If victim is conscious and alert, 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. Swallowing this product may cause severe nausea, vomiting, abdominal discomfort, and burning sensation.

**5. FIRE FIGHTING MEASURES****Extinguishing media**

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Non-combustible. No special requirement. To extinguish fire use water spray, dry chemical, carbon dioxide, or appropriate foam.

**Unsuitable extinguishable media**

Non-combustible. No special requirement.

**Exposure hazards**

No special considerations.

**Protective equipment**

As a general precaution, firefighters and others exposed, wear self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

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

**Environmental precautions**

Small quantities: Avoid discharge into the environment

Large quantities: Avoid discharge into the environment – See section 15

**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.

**7. HANDLING AND STORAGE**

**Handling**

Do not get in eyes, 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 corrosivity.

**8. EXPOSURE CONTROLS/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) 8-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



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**Respiratory protection**

Avoid breathing dust. In case of insufficient ventilation, use approved respiratory protective equipment as described in OSHA 29 CFR 1910.134 or European Standard EN149.

**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 as described in OSHA eye and face regulation in 29 CFR 1910.133 or European Standard EN166.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**General Information**

Chemical Formula:	$\text{Na}_3\text{PO}_4$
Form:	Free-flowing granular product
Color:	White
Odor:	Odorless

**Important health, safety and environmental information**

pH:	11.5 – 12.0 (as a 1% solution)
Specific Gravity	2.54
Melting Point	1340 °C
Bulk Density:	49-63 lbs./cu. ft.
Solubility in Water:	(g./100 g. $\text{H}_2\text{O}$ ): 5.4 @ 0 °C 14.5 @ 25 °C 23.3 @ 40 °C 54.3 @ 60 °C 94.6 @ 100 °C

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

**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 to decomposition

**11. TOXICOLOGICAL INFORMATION**

**Laboratory data**

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Data from ICL Performance Products LP single-dose (acute) animal studies with this material are given below:

Oral - rat LD <sub>50</sub> :	4,150 mg/kg; slightly toxic
Dermal - rabbit LD <sub>50</sub> :	>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).

**12. ECOLOGICAL INFORMATION****Environmental toxicity**

The following data have been classified using the criteria adopted by the European Economic Community (EEC) for aquatic organism toxicity.

Invertebrate: 50-hr EC <sub>50</sub> Daphnia magna:	177 mg/L; Practically Nontoxic
Warmwater fish: 96-hr LC <sub>50</sub> Bluegill sunfish:	220 mg/L; Practically Nontoxic
Coldwater fish: 96-hr LC <sub>50</sub> Rainbow trout:	120 mg/L; Practically Nontoxic

No definitive algal data was available for this material.

**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.

**13. DISPOSAL CONSIDERATIONS****European waste catalog number**

16 03 03 inorganic wastes containing dangerous substances

**Disposal Considerations**

This material when discarded 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 landfilled or recycled in accordance with local, state and federal regulations. Consult your attorney or appropriate regulatory officials for information on such disposal.

**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. (contains sodium phosphate, tribasic), UN 3077, 9, PG  
III\*

ICAO/IATA passenger aircraft

UN 3077, Environmentally hazardous substance, solid, n.o.s.  
(contains sodium phosphate, tribasic), 9, PG III\*

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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 a package containing a Reportable Quantity (RQ) of 5000 lbs or more.

## 15. REGULATORY INFORMATION

### EC Label

Hazard symbol: Xi - Irritant  
 R34 Causes burns  
 R37/38 Irritating to respiratory system and skin  
 R41 Risk of serious damage to eyes  
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical attention  
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

### Chemical Inventory

USA TSCA:	Listed	Australia	Listed
Canada DSL:	Listed	Korea	Listed
EC:	Listed	Philippines	Listed
Japan	Listed	China	Listed

### Other Information

Germany: WGK = 1

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. RQ of sodium phosphate, tribasic

Release of more than 5000 pounds of sodium phosphate, tribasic to the environment in a 24-hour period requires notification to the National Response Center (800-424-8802 or 202-426-2675).

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation and the MSDS contain all the information required by the Canadian Controlled Products Regulation.

## 16. OTHER INFORMATION

	<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>Additional Information</u>
Suggested NFPA Rating	3	0	0	
Suggested HMIS Rating	3	0	0	E E = safety glasses, gloves, dust respirator

Reason for revision: Revised section 1, 8, 16, 13, 2010

Supersedes MSDS dated: December



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