



**ICL Performance
Products LP**

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification

Product Name: TRISODIUM PHOSPHATE (CRYSTALLINE)
Reference Number: AST10065
Date: April 21, 2006
Chemical Family: Phosphate Salts
Chemical Name: Trisodium Orthophosphate
Synonyms: Phosphoric Acid, Trisodium Salt Dodecahydrate, TSP Crystals, TSPC, TSP-X

Use of the ingredient or preparation

Food ingredient, cleaning compound

Company information

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

Emergency telephone: In USA call CHEMTREC: 1 800 424 9300
In Canada call CANUTEC: 1 613 996 6666

General Information: +1 800 244 6169 (Worldwide)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition

<u>Substance</u>	<u>CAS No.</u>	<u>%w/w</u>	<u>EINECS No.</u>	<u>Risk Phrase</u>
Trisodium Phosphate Dodecahydrate	10101-89-0	98	*231-509-8	None
Sodium Hydroxide	1310-73-2	1.8 – 2.0	215-185-5	R35

*Registration, classification, inventory and information found in Sections 2 through 16 for this product are based upon the hydrated form of Trisodium Phosphate, Anhydrous.

3. HAZARDS IDENTIFICATION

Classification of the substance/preparation

EC Classification None
Safety Phrase None

Human Health Effects

DANGER!
Causes eye burns
May cause skin irritation

ICL Performance Products LP Material Safety Data Sheet

Material: Trisodium Phosphate (Crystalline)

Reference No.: AST10065

Page 2 of 6
April 21, 2006

Eye Contact

This product causes eye burns based on toxicity studies. Injury may be permanent.

Skin contact

This product may cause pain, redness, swelling, and blisters. No more than slightly toxic based on toxicity studies.

Inhalation

Inhalation of heavy dust may severely irritate nose and throat.

Ingestion

No more than slightly toxic if swallowed based on toxicity studies. No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed.

Environmental Effects

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

4. FIRST AID MEASURES

General

Likely Routes of Exposure: Skin contact and inhalation

Eye Contact

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove any contact lenses. Get medical attention. Remove material from eyes, skin and clothing.

Skin contact

Immediately flush the area with plenty of water. Remove contaminated clothing. Get medical attention if irritation persists. Wash clothing and thoroughly clean shoes before reuse.

Inhalation

Immediate first aid is not likely to be required. However, if symptoms occur, remove to fresh air.

Ingestion

Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention. A Poison Control Center can be contacted for advice.

5. FIRE FIGHTING MEASURES

Extinguishing media

Non-combustible
No special requirement.
To extinguish fire use water, dry chemical, chemical foam, or alcohol-resistance foam.

Unsuitable extinguishable media

Non-combustible
No special requirement.

ICL Performance Products LP Material Safety Data Sheet

Material: Trisodium Phosphate (Crystalline)

Reference No.: AST10065

Page 3 of 6
April 21, 2006

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 environmental – See section 15

Method for cleaning up

In case of spill, sweep, scoop or vacuum and remove. Flush residual spill area with water.

7. HANDLING AND STORAGE

Handling:

Do not get in eyes, on skin, or on clothing.

Avoid breathing dust.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Engineering measures

Provide natural or mechanical ventilation to minimize exposure. The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment. Consult National Fire Protection Association (NFPA) Standard 91 for design of exhaust systems.

Storage

Emptied container retains product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed. Store in a cool, dry place to maintain product performance. Sealed containers should be kept free of water because of its corrosivity when wet.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure limit

ACGIH TLV 10 mg/m³ (inhalable) 8-hr TWA, 3 mg/m³ (respirable) 8-hr TWA

OSHA PEL 15 mg/m³ (total dust) 8-hr TWA, 5 mg/m³ (respirable) 8-hr TWA

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.

Components referred to herein may be regulated by specific Canadian provincial legislation. Please refer to exposure limits legislated for the province in which the substance will be used.

IMPORTANT: While Brenntag believes the information contained herein to be accurate, Brenntag makes no representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with the applicable federal, state, and local law. This MSDS shall not in any way limit or preclude the operation and effect of any of the provisions of Brenntag's terms and conditions of sale.

ICL Performance Products LP Material Safety Data Sheet

Material: Trisodium Phosphate (Crystalline)

Reference No.: AST10065

Page 4 of 6

April 21, 2006

Respiratory protection

Avoid breathing dust. In case of insufficient ventilation, use approved respiratory protective equipment as described in OSHA 29 CFR 1910.133 or European Standard EN 149.

Hand/Skin protection

Wear appropriate protective clothing and chemical resistant gloves to prevent skin contact. Consult the glove/clothing manufacturer to determine the appropriate type glove/clothing for a given application. Wash immediately if skin is contaminated. Launder contaminated clothing and clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash thoroughly after handling.

Eye protection

Wear appropriate protective eyeglasses or chemical safety goggles as described in OSHA 29 CFR 1910.133 or European Standard EN166.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Form: Crystalline, free-flowing granules or powder
Color: White
Odor: None

Important health, safety and environmental information

pH: 12.0 (as a 1% solution @ 25 degrees C)
Solubility: 21g / 100g saturated solution @ 25 degrees 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

None known.

Materials to avoid

This material could be corrosive to aluminum surfaces because of high pH.

Hazardous decomposition

None known.

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:	6,500 mg/kg; practically nontoxic
Dermal - rabbit LD50:	> 7,940 mg/kg; practically nontoxic
Eye Irritation - rabbit (4-hr exp.):	corrosive
Skin Irritation - rabbit:	3.3/8.0; moderately irritating

ICL Performance Products LP Material Safety Data Sheet

Material: Trisodium Phosphate (Crystalline)

Reference No.: AST10065

Page 5 of 6
April 21, 2006

The anhydrous form of this material 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: 48-hr EC50 Daphnia magna: >1000 mg/L; Practically Nontoxic
Warmwater Fish: 96-hr LC50 Bluegill sunfish: 440 mg/L; Practically Nontoxic
Coldwater Fish: 96-hr LC50 Rainbow trout: 260 mg/L; Practically Nontoxic

No definitive algal toxicity data was available for this material.

Environmental fate

No definitive biodegradation data was available for this material.

13. DISPOSAL CONSIDERATIONS

European waste catalog number

The data provided in this section is for information only. Please apply the appropriate classification for your waste.

06 03 07 Waste from inorganic chemical processes, waste salts and their solutions, phosphates and related solid salts

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. (sodium phosphate, tribasic), 9, UN3077, III

ICAO/IATA:
Environmentally hazardous substance, solid, n.o.s. (sodium phosphate, tribasic), 9, UN3077, III

RID/ADR:
Environmentally hazardous substance, solid, n.o.s. (sodium phosphate, tribasic), 9, UN3077, III

Canadian TDG:
*Environmentally hazardous substance, solid, n.o.s. (sodium phosphate, tribasic), 9, UN 3077, III

*Applies only when intended for disposal.

ICL Performance Products LP Material Safety Data Sheet

Material: Trisodium Phosphate (Crystalline)

Page 6 of 6

Reference No.: AST10065

April 21, 2006

US DOT:

Environmentally hazardous substance, solid, n.o.s. (sodium phosphate, tribasic**), 9, UN3077, III

**Applies only to packages of 5000 lb or more containing a reportable quantity of sodium phosphate, tribasic.

14. REGULATORY INFORMATION

EC Label

None

Chemical Inventory

TSCA Inventory: Listed

DSL Inventory: 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 RQ of Trisodium Phosphate Crystalline

Release of more than 5,000 pounds of this product to the environment in a 24-hour period requires notification to the National Response Center (800-424-8802 or 202-426-2675).

Refer to Section 11 for OSHA Hazardous Chemical(s) and Section 13 for RCRA classification

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>	
Suggested NFPA Rating	3	0	0	
Suggested HMIS Rating	3	0	0	J

J = splash goggles, gloves, synthetic apron, dust & vapor respirator

Reason for revision: Revised section 1. Supersedes MSDS dated: November 1, 2005
Drafted in accordance with ECC Dir 2001/58/EC

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, ICL Performance Products LP makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ICL Performance Products LP be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS

AST10065.1410.doc

IMPORTANT: While Brenntag believes the information contained herein to be accurate, Brenntag makes no representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with the applicable federal, state, and local law. This MSDS shall not in any way limit or preclude the operation and effect of any of the provisions of Brenntag's terms and conditions of sale.