



**ICL Performance  
Products LP**

# *Material Safety Data Sheet*

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Identification

Product Name: SODIUM TRIMETAPHOSPHATE ANHYDROUS  
Reference Number: AST10055  
Date: April 21, 2006

### Use of the substance or preparation

Water treatment, Mold Release Agent, Food Ingredient, Cleaning Ingredient

### 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  
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>
Sodium Trimetaphosphate Anhydrous	7785-84-4		232-088-3	None

## 3. HAZARDS IDENTIFICATION

### Classification of the substance/preparation

EC Classification: None  
Safety Phrase: None

### Human Health Effects

Likely Routes of Exposure: Skin contact and inhalation

EYE CONTACT: No more than slightly irritating based on toxicity studies. The dry powder may cause foreign body irritation in some individuals.

SKIN CONTACT: No more than or slightly irritating based on toxicity studies. Prolonged contact with the dry powder may cause drying or chapping of the skin.

INHALATION: Inhalation of the dust may cause coughing and sneezing.

INGESTION: Not toxic if swallowed based on toxicity studies. No significant adverse health effects are expected if only small amounts (less than a mouthful) are swallowed.

Refer to Section 11 for toxicological information.

### **Environmental Effects**

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

## **4. FIRST AID MEASURES**

### **General**

Treatment is symptomatic and supportive.

### **Eye contact**

Immediate first aid is not likely to be required. However, this material can be removed with water. Remove material from eyes, skin and clothing. Wash heavily contaminated clothing before reuse.

### **Skin contact**

Immediate first aid is not likely to be required. However, this material can be removed with water. Remove material from eyes, skin and clothing. Wash heavily contaminated clothing before reuse.

### **Inhalation**

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

### **Ingestion**

Immediate first aid is not likely to be required. A physician or Poison Control Center can be contacted for advice.

## **5. FIRE FIGHTING MEASURES**

### **Extinguishing media**

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: See below

Large quantities: See below

### **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:**

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin, and clothing.

### **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**

Store in cool, dry place to maintain product performance. Product is very hygroscopic and should be stored in a dry area in poly or vapor barrier bags to prevent moisture pickup and caking.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Occupational Exposure limit**

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

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.

### **Respiratory protection**

Avoid breathing dust. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure limits are exceeded. Consult the respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 C.F.R. 1910.134 and or European Standard EN149.

### **Hand/Skin protection**

Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

**Eye protection**

This product does not cause significant eye irritation or eye toxicity requiring special protection. Use good industrial practice to avoid eye contact.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**General Information**

Chemical Formula:  $\text{Na}_3(\text{PO}_3)_3$   
Form: Fine, crystalline powder  
Color: White  
Odor: Odorless

**Important health, safety and environmental information**

pH: 6.0 - 8.0 (as a 1% solution @ 25 degrees C)  
Melting Point: Begins to melt incongruently at 420 degrees C; completely melted 625 degrees C  
Bulk Density: 64 - 70 ( lbs./cu. ft.)  
Solubility in Water: 20 (g/100g H<sub>2</sub>O) @ 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**

None known.

**Hazardous decomposition**

None known.

**11. TOXICOLOGICAL INFORMATION**

**Laboratory data**

The dry powder may cause foreign body irritation in some individuals. Prolonged contact with the dry powder may cause drying or chapping of the skin. Excessive inhalation of dust may be annoying and can mechanically impede respiration.

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

Oral - rat LD50: > 10,600 mg/kg; practically nontoxic  
Eye Irritation - rabbit: 8.3/110.0; slightly irritating  
Skin Irritation - rabbit (24-hr exp.): 0.0/8.0; practically nonirritating

Rats fed this material in their diet for one month showed decreased growth, increased kidney-to-body weights and slight kidney changes. Rats fed this material for two years also showed decreased weight gain, as well as blood changes and increased mortality. No increase in tumors was reported. No adverse effects in reproductive capacity were reported in a multigeneration study using rats fed this material.

## 12. ECOLOGICAL INFORMATION

### Environmental toxicity

ICL Performance Products LP has not conducted environmental toxicity studies with this product.

### Environmental fate

ICL Performance Products LP has not conducted biodegradation studies with this product since when dissolved / hydrolyzed in water it yields completely mineralized materials.

## 13. DISPOSAL CONSIDERATIONS

### European waste catalog number

Unknown

### 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	Not regulated.
ICAO/IATA	Not regulated.
RID/ADR	Not regulated.
Canadian TDG	Not regulated.
US DOT	Not regulated.

## 15. REGULATORY INFORMATION

### EC Label

Hazard symbol: none

### Chemical Inventory

USA TSCA:	Listed
Canada DSL:	Listed
EC:	Listed

### Other information

WHMIS Classification: Not controlled.

SARA Hazard Notification

Hazard Categories Under Title III Rules (40 CFR 370):	Not applicable
Section 302 Extremely Hazardous Substances:	Not applicable
Section 313 Toxic Chemical(s):	Not applicable

CERCLA Reportable Quantity: Not applicable

This product has been classified in accordance with the hazard criteria of the Canadian

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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	1	0	0	
Suggested HMIS Rating	1	0	0	E E = safety glasses, gloves, dust respirator

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

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