



**ICL Performance  
Products LP**

# *Material Safety Data Sheet*

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Identification

Product Name: POTASSIUM TRIPOLYPHOSPHATE ANHYDROUS  
Reference Number: AST10079  
Date: November 1, 2005  
Chemical Family: Phosphate Salts  
Chemical Name: Triphosphoric Acid, Pentapotassium Salt  
Synonyms: KTPP

### Use of substance or preparation

Food ingredient, detergent builder, sequestrant, dispersant

### 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>
Potassium Tripolyphosphate Anhydrous	13845-36-8	85	237-574-9	none
Tetrapotassium Pyrophosphate Anhydrous	7320-34-5	10	230-785-7	R36/37/38
Dipotassium Phosphate Anhydrous	7758-11-4	2	231-834-5	R36/37/38
Water	7732-18-5	3	231-791-2	none

## 3. HAZARDS IDENTIFICATION

### Classification of the substance/preparation

EC Classifications none  
Safety Phrase S 26 S 36

### Human Health Effects

EYE CONTACT: Mildly irritating based on toxicity studies. The dry material may cause foreign body irritation in some individuals.

SKIN CONTACT: Non-irritating based on toxicity studies with a similar material. Prolonged

contact with the dry material may cause drying or chapping of the skin.

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

**INGESTION:** No more than slightly toxic if swallowed based on toxicity studies with a similar material. No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed. Large doses may cause nausea, vomiting and diarrhea.

Refer to Section 11 for toxicological information.

### **Environmental Effects**

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

### **WARNING STATEMENTS:**

NO SIGNIFICANT HAZARDS ASSOCIATED WITH THIS MATERIAL.

## **4. FIRST AID MEASURES**

### **General**

Wash heavily contaminated clothing before reuse.

### **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.

### **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.

### **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**

Not combustible.

No special requirement.

To extinguish fire use water spray, dry chemical, carbon dioxide, or appropriate foam

### **Unsuitable extinguishable media**

Not 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: Note methods for cleaning up in the next section.

### **Method for cleaning up**

Sweep, scoop or vacuum and remove. Flush residual spill area with water.

Refer to Section 13 for disposal information and Section 15 for reportable quantity information.

## **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 control exposure levels below airborne exposure limits (see below). The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.

### **Storage**

Store in a cool, dry place to maintain product quality.

## **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 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 is excessive. 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 or European Standard EN 149.

### **Hand/Skin protection**

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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:	$K_5P_3O_{10}$
Form:	Powder
Colour:	White
Odor:	Odorless

### Important health, safety and environmental information

pH:	9.6 (as a 1% solution @ 25 degrees C)
Solubility in Water:	66% @ 25 degrees C
Density:	0.94

### Other information

Melting Point:	620-640 degrees C
Flash Point:	not available
Lower and upper explosion limits (UEL/LEL)	not available
Specific Gravity:	0.95g/ml

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

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

Eye Irritation - rabbit: mildly irritating (unwashed eyes)  
Eye Irritation - rabbit: nonirritating (washed eyes)

## 12. ECOLOGICAL INFORMATION

**Environmental Toxicity**

ICL Performance Products LP has not conducted any ecological studies with this material.

**Environmental Fate**

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

**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	Not classified
ICAO/IATA	Not classified
RID/ADR	Not classified
Canadian TDG	Not classified
US DOT	Not classified

**15. REGULATORY INFORMATION**

**EC Label**

Hazard Symbol:	none
Risk Phrase	R36/37/38 – irritating to eyes, respiratory system and skin
Safety Phrase	S26 – In case of contact with eyes, immediately flush with plenty of water and seek medical attention. S36/37-Wear suitable protective clothing and gloves.

**Chemical Inventory**

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

**Additional Information**

WHMIS Classification: Not controlled

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SARA Hazard Notification

Hazard Categories Under Title III Rules (40 CFR 370): None  
Section 302 Extremely Hazardous Substances: None  
Section 313 Toxic Chemical(s): None

CERCLA Reportable Quantity: Not applicable

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

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

**16. OTHER INFORMATION**

	Health	Fire	Reactivity	Additional Information
Suggested NFPA Rating	1	0	0	
Suggested HMIS Rating	1	0	0	F F = safety glasses, gloves, synthetic apron, dust respirator

Reason for revision: New Company Supersedes MSDS dated: 27 April 2004  
Drafted in accordance with ECC Dir 2001/58/EC

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