



**ICL Performance  
Products LP**

## *Material Safety Data Sheet*

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Identification

Product Name: TRICALCIUM PHOSPHATE  
Reference Number: AST10061  
Date: April 21, 2006

#### Use of the substance or preparation

Food Ingredient, fertilizer ingredient, fire extinguisher compound

#### 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>% by weight</u>	<u>EINECS No.</u>	<u>Risk Phrase</u>
Tricalcium Phosphate	1306-06-5	100	231-840-8	R36/37/38

### 3. HAZARDS IDENTIFICATION

#### Classification of the substance/preparation

EC Classification: None  
Safety Phrase: S24/25

#### Human Health Effects

Contact with eyes or skin may cause irritation. Inhalation of dust may cause respiratory tract irritation. Irritation to the gastrointestinal tract may occur following ingestion. Nausea, vomiting and diarrhea may also occur.

#### 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**

May cause eye and skin irritation. May cause respiratory tract irritation. Ingestions of large amounts may cause gastrointestinal irritation, nausea, vomiting, cramps, and diarrhea. Treatment is symptomatic and supportive.

**Eye contact**

May cause eye irritation. In case of contact, immediately flush eyes plenty of water. Seek medical attention.

**Skin contact**

May cause skin irritation. In case of contact, immediately flush skin with plenty of water. Get medical attention if irritation develops.

**Inhalation**

Remove to fresh air immediately. If breathing is difficult, give oxygen. If not breathing, give artificial respiration

**Ingestion**

If conscious and alert, rinse mouth and give 2-4 cups of milk or water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting - Obtain medical attention.

**5. FIRE FIGHTING MEASURES**

**Extinguishing media**

Non-combustible  
No special requirement.  
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 environmental – See section 15

**Method for cleaning up**

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Sweep, scoop or vacuum spill material, contaminated soil and other contaminated material and place in clean, dry containers for removal. Residual material can be flushed with water.

### 7. HANDLING AND STORAGE

#### Handling:

Handle in accordance with good industrial hygiene and safety practices.

Avoid contact with eyes.

Wash hands immediately 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.

### 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.

#### 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. A dust respirator is recommended.

#### Hand/Skin protection

Wearing protective gloves to prevent skin exposure; wash hands and contaminated skin thoroughly after exposure to the product.

#### 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:	Ca <sub>5</sub> OH(PO <sub>4</sub> ) <sub>3</sub>
Form:	Powder
Color:	White
Odor:	Odorless

#### Important health, safety and environmental information

pH:	7.3 (as a 1% solution)
Density	3.14

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Solubility in Water: 0.002% practically insoluble

Melting Point 1670 °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. Store in a cool, dry place to maintain product performance.

#### Conditions to avoid

Dust generation.

#### Materials to avoid

Oxidizing agents.

#### Hazardous decomposition

Phosphine, oxides of phosphorus, calcium oxides.

### 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:	10,000 mg/kg; practically nontoxic
Dermal - rabbit LD50:	>7,940 mg/kg; practically nontoxic
Eye Irritation - rabbit:	3.7/110.0; slightly irritating
Skin Irritation - rabbit: 0.0/8.0 (24-hr. exp.);	nonirritating

### 12. ECOLOGICAL INFORMATION

#### Environmental toxicity

ICL Performance Products LP has not conducted any environmental toxicity studies with this material. No algal toxicity 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. The term biodegradability, as such, is not applicable to inorganic compounds.

### 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.

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**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 hazardous for transportation
ICAO/IATA passenger aircraft	Not hazardous for transportation
RID/ADR	Unknown
Canadian TDG	Not hazardous for transportation
US DOT	Not hazardous for transportation

**15. REGULATORY INFORMATION**

**EC Label**

Hazard symbol:	None
R36/37/38	Irritating to eyes, respiratory system and skin
S24/25	Avoid contact with skin/eyes

**Chemical Inventory**

USA TSCA:	Listed
Canada DSL:	Listed
EC:	Listed
Japan	Listed
Australia	Listed
Korea	Listed
Philippines	Listed
China	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 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>Reactivit</u>	<u>Additional Information</u>
Suggested NFPA Rating	0	0	$\frac{Y}{0}$	
Suggested HMIS Rating	0	0	0	E E = safety glasses, gloves, dust respirator.

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

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