



## Material Safety Data Sheet

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MSDS No:

Version No:

Order No:

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Emergency Assistance

For emergency assistance involving chemicals call  
Chemtrec - (800) 424-9300



**ICL Performance  
 Products LP**

## *Material Safety Data Sheet*



**Responsible Care®**  
 Good Chemistry at Work

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Identification

Product Name: TRICALCIUM PHOSPHATE  
 Reference Number: AST10061  
 Date: March 2, 2009

#### 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	215-145-7	None

### 3. HAZARDS IDENTIFICATION

#### Classification of the substance/preparation

EC Classification 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 slightly toxic 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:** Is not 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.

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**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**

No significant hazards associated with this material.

**Eye contact**

Immediate first aid is not likely to be required. However this material can be removed with water. Immediately flush eyes with plenty of water.

**Skin contact**

Immediate first aid is not likely to be required. However this material can be removed with water. In case of contact, immediately flush skin with plenty of water. Wash contaminated clothing before reuse.

**Inhalation**

Immediate first aid is not likely to be required. If symptoms occur, remove to fresh air immediately. Remove material from eyes, skin and clothing.

**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.  
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**

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Small quantities: Avoid discharge into the environment

Large quantities: Avoid discharge into the environmental – 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. 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

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March 2, 2009**Important health, safety and environmental information**

pH:	7.3 (as a 1% solution)
Density	0.50 g/cc
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**

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:

Oral - rat LD <sub>50</sub> :	>10,000 mg/kg; practically nontoxic
Dermal - rabbit LD <sub>50</sub> :	>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.); practically 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



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**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 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

**Chemical Inventory**

USA TSCA:	Listed as hydroxylapatite
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>Reactivity</u>	<u>Additional Information</u>
Suggested NFPA Rating	0	0	0	
Suggested HMIS Rating	0	0	0	E E = safety glasses, gloves, dust respirator.



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Drafted in accordance with ECC Dir 2001/58/EC

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AST10061.2632.doc

For Additional Information contact MSDS Coordinator during business hours, Pacific time: (800)-4Laguna  
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