



# *Material Safety Data Sheet*

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Identification

Product Name: Mag-nificent™ Dimagnesium Phosphate Trihydrate  
Reference Number: AST10017  
Date: November 1, 2005  
Chemical Family: Phosphate Salts  
Chemical Name: Phosphoric Acid, Magnesium Salt, Trihydrate

### Use of the substance

Food 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: + 32 (0)3 568 5123  
1 800 244 6169 (Worldwide)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>
Dimagnesium Phosphate Trihydrate	7782-75-4

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Appearance and Odor: White powder with no odor

NO SIGNIFICANT HAZARDS ASSOCIATED WITH THIS MATERIAL

### POTENTIAL HEALTH EFFECTS

Likely Routes of Exposure: Skin contact and inhalation

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

## ICL Performance Products LP Material Safety Data Sheet

Material: Mag-nificent™ Dimagnesium Phosphate Trihydrate

Page 2 of 5

Reference No.: AST10017

November 1, 2005

SKIN CONTACT: No more than slightly toxic or slightly irritating based on toxicity studies on a closely related material. 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 on a closely related material. No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed.

Refer to Section 11 for toxicological information.

### 4. FIRST AID MEASURES

IF IN EYES OR ON SKIN, 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.

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

IF SWALLOWED, immediate first aid is not likely to be required. A physician or Poison Control Center can be contacted for advice.

### 5. FIRE FIGHTING MEASURES

FLASH POINT: Not combustible

HAZARDOUS PRODUCTS OF COMBUSTION: Not applicable

EXTINGUISHING MEDIA: Not applicable

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

### 6. ACCIDENTAL RELEASE MEASURES

In case of spill, sweep, scoop or vacuum and remove. Flush residual spill area with water. Refer to Section 13 for disposal information and Sections 14 and 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.

STORAGE: Store in a cool, dry place to maintain product performance.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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.

RESPIRATORY PROTECTION: This product is not likely to present an airborne exposure concern under normal use. Use NIOSH/MSHA approved respiratory protection equipment if needed for dust exposure during unusual handling conditions. Consult the respirator

## ICL Performance Products LP Material Safety Data Sheet

Material: Mag-nificent™ Dimagnesium Phosphate Trihydrate

Page 3 of 5

Reference No.: AST10017

November 1, 2005

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.

**VENTILATION:** 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.

**AIRBORNE EXPOSURE LIMITS:** 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.

### OSHA PEL

15 mg/m<sup>3</sup> (total dust) 8-hr. TWA

5 mg/m<sup>3</sup> (respirable) 8-hr. TWA

### ACGIH TLV

10 mg/m<sup>3</sup> (inhalable) 8-hr. TWA

3 mg/m<sup>3</sup> (respirable) 8-hr. TWA

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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Formula:	MgHPO <sub>4</sub> .3H <sub>2</sub> O
Appearance:	White powder
Odor:	None
Solubility in Water:	Negligible solubility
Solubility in Other Solvents:	Soluble in dilute acids

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

**STABILITY:** Product is stable under normal conditions of storage and handling.

**MATERIALS TO AVOID:** None known

**HAZARDOUS DECOMPOSITION PRODUCTS:** None

**HAZARDOUS POLYMERIZATION:** Will not occur

## 11. TOXICOLOGICAL INFORMATION

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.

This product has not been tested. Data from laboratory studies conducted by ICL Performance Products LP and from the scientific literature with a closely related material are summarized 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: 0.4/110.0 (4-hr exp.); practically nonirritating  
Skin Irritation - rabbit: 0.2/8.0 (4-hr exp.); practically nonirritating

No adverse genetic changes were reported in standard tests using material and yeast cells. No birth defects were reported in mice, rats or rabbits given this material during pregnancy.

## 12. ECOLOGICAL INFORMATION

**ICL Performance Products LP Material Safety Data Sheet**

Material: Mag-nificent™ Dimagnesium Phosphate Trihydrate

Page 4 of 5

Reference No.: AST10017

November 1, 2005

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

No data was retrieved in a search of the available scientific literature.

**13. 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.

US DOT

Not regulated for transport

Canadian TDG

Not regulated for transport

**15. REGULATORY INFORMATION**

TSCA Inventory: Listed  
DSL Inventory: Listed  
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 contains all the information required by the Canadian Controlled Products Regulation.

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

**16. OTHER INFORMATION**

	Health	Fire	Reactivity	Additional Information
Suggested NFPA Rating	0	0	0	
Suggested HMIS Rating	0	0	0	E E = Safety glasses, gloves and dust respirator

Reason for revision: New Company  
Product Use: Food Ingredient

Supersedes MSDS dated: April 01, 2002

**ICL Performance Products LP Material Safety Data Sheet**

Material: Mag-nificent™ Dimagnesium Phosphate Trihydrate

Reference No.: AST10017

Page 5 of 5

November 1, 2005

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

AST10017.1700.doc