

# MATERIAL SAFETY DATA SHEET

Product:

## Mono Calcium Phosphate Powder

According to Directives: 91/155/EEC & 2001/58/EC

Date of Issue: 22.04.2008 Revision: 1

### 1. Identification of the substance and the company

#### 1.1. Identification of the substance/preparation

**Product name** hi-phos 22  
**Chemical name** Mono Calcium Phosphate  
**Synonyms:** Mono Calcium Phosphate  
**Chemical formula**  $\text{Ca}(\text{H}_2\text{PO}_4)_2\text{H}_2\text{O}$   
**CAS number** 7758-23-8  
**Chemical family** Chemical salts  
**Type of product end use** Feed Phosphate

#### 1.2. Identification of the Company:

**Manufacturer Address:** Rotem Kimyevi Maddeler San. Tic. A.Ş.  
Çanakkale Yolu 12. km Bandırma  
**Contact for information:** +90 266 727 20 21  
**Emergency telephone numbers:** +90 266 727 25 46  
**Fax number:**  
**e-mail:** rotemplant@superonline.com

### 2. Composition / information on ingredients

Components	CAS No.	EC No.	Classification	Notes
Mono Calcium Phosphate	7758-23-8	231-837-1	Chemical salts	

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### 3. Hazards identification

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#### Potential Health Effects:

**Eye Contact:** Dust may irritate the eyes.

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**Skin contact:** May be irritating after prolonged contact

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**Inhalation :** Breathing dust may irritate the nose and throat and cause chest discomfort

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**Ingestion:** Ingestion of large quantities may cause abdominal cramps, nausea, vomiting and diarrhea

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**Chronic Effects:** n/a

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**Fire and thermal decomposition products** Thermal decomposition may produce toxic fumes of phosphorous oxides and/or phosphine.

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### 4. First-aid measures

<b>Eye contact</b>	Immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing of eyes by separating eyelids with fingers.
<b>Skin contact</b>	Immediately flush skin with soap and copious amounts of water at least 15 minutes while removing contaminated clothing and shoes .Remove and wash contaminated clothing before reuse.
<b>Inhalation</b>	Remove to fresh air .If not breathing give artificial respiration. If breathing is difficult, give oxygen
<b>Ingestion</b>	Wash out mouth with water. Call a physician. Note: Do not give liquids to an unconscious person.

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### 5. Fire - fighting measures

<b>Extinguishing media</b>	This product does not burn or support combustion. Use extinguishing media appropriate for surrounding fire.
<b>Fire fighting procedure</b>	This product is non-flammable

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**Special protective equipment for fire-fighters** Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment

**Unusual fire and explosion hazards** None known

### 6. Accidental release measures

**Personal precautions** Wear protective equipment to prevent skin and eye contamination and inhalation of dust

**Environmental precautions** Prevent entry to sewers or streams and other water bodies.

**After spillage / leakage** Use appropriate tools to out the spilled material into a sealed container and hold for reuse or disposal.

### 7. Handling and Storage

**Handling** Keep packages closed when not being used. Use adequate ventilation. No smoking, eating and drinking water at workplace. Avoid prolonged and repeated exposure.

**Precautions**

**Safe handling advice**

**Storage** Store in dry place. Keep away from moisture and avoid physical damages.

**Storage conditions**

### 8. Exposure controls / personal protection

#### *Exposure limits:*

**Threshold limit value (TLV)** Not considered toxic. N/A US N/A UK

**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

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particulates not otherwise classified (PNOC) which are the least stringent exposure limits applicable to dusts.

### Personal protection equipment:

<b>Respiratory protection</b>	Dustproof respirators
<b>Hand protection</b>	Protective gloves
<b>Eye protection</b>	Safety glasses
<b>Skin and body protection</b>	Resistant protective clothes
<b>Specific hygiene measures</b>	No smoking, eating and drinking water at workplace. Washing hands before eating. Taking bath after work.
<b>Engineering measures to reduce exposures:</b>	Use adequate exhaust ventilation to keep airborne concentrations below the allowed exposure limits.

### 9. Physical and chemical properties

Appearance	White or offwhite powder and granule
Odor	Odourless
pH (1% w/w water solution)	4 - 5
Melting point/range	N/A
Boiling point/range	N/A
Vapor pressure (25°)	N/A
Vapor density (air=1)	N/A
Relative vapor density (air=1)	N/A
Flash point	N/A
Flammable/Explosion limits	No explosion property
Auto-ignition temperature	N/A
Specific gravity	900 mg/ml
Solubility in water	Slightly soluble in water
Thermal decomposition	230 °C

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### 10. Stability and reactivity

<b>Stability</b>	Stable
<b>Materials to avoid</b>	Strong oxidizing agents.
<b>Conditions to avoid</b>	Incompatible materials. High temperatures, moisture.
<b>Hazardous reactions / decomposition products</b>	N/A
<b>Hazardous polymerization</b>	

### 11. Toxicological information

Component	RTECS Number	Acute Toxicity Data
Mono Calcium Phosphate		Oral - rat LD50: 7,100 mg/kg; practically nontoxic  Dermal - rabbit LD50: >7,940 mg/kg; practically nontoxic

**Chronic Toxicity/Carcinogenicity**  
**IARC**  
**NTP 11<sup>th</sup> Report on Carcinogens**  
**OSHA**

Not listed as a carcinogen by NTP, IARC,  
ACIGH or OSHA

### 12. Ecological information

**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.

**Mobility**

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**Persistence/Degradability** N/A

**Bioaccumulation**

**Ecotoxicity** Ecotoxicity in water (LC 50):>485 mg/l 48 hours [Daphnia (daphnia)]

### 13. Disposal considerations

<b>Waste disposal</b>	Dispose of according to all applicable governments' regulations. 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
<b>Contaminated packaging</b>	Empty packaging should be recycled or disposed of through an approved waste management facility.

### 14. Transportation information

UN No.	not hazardous for transportation
IMO-IMDG code	N/A
ICAO/IATA	not hazardous for transportation
RID/ADR	Unknown
US DOT	not a DOT controlled material in US

### 15. Regulatory information

Hazard Symbol	None
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### Inventory Status

Inventory	Status
UNITED STATES (TSCA)	Listed
CANADA (DSL)	Listed

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EUROPE (EINECS/ELINCS)	Listed
AUSTRALIA (AICS)	Listed
JAPAN (MITI)	Listed
SOUTH KOREA (KECL)	Listed

### 16. Other information