

MATERIAL SAFETY DATA SHEET

Product: **Mono Calcium Phosphate**

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 23
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
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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

Potential Health Effects:

Eye Contact: Dust may irritate the eyes.

Skin contact: May be irritating after prolonged contact

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

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

Chronic Effects: n/a

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

4. First-aid measures

Eye contact	Immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing of eyes by separating eyelids with fingers.
Skin contact	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.
Inhalation	Remove to fresh air .If not breathing give artificial respiration. If breathing is difficult, give oxygen
Ingestion	Wash out mouth with water. Call a physician. Note: Do not give liquids to an unconscious person.

5. Fire - fighting measures

Extinguishing media	This product does not burn or support combustion. Use extinguishing media appropriate for surrounding fire.
Fire fighting procedure	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/m³ (inhalable) 8-hr TWA, 3 mg/m³ (respirable) 8-hr TWA

OSHA PEL 15 mg/m³ (total dust) 8-hr TWA, 5 mg/m³ (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

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stringent exposure limits applicable to dusts.

Personal protection equipment:

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

9. Physical and chemical properties

Appearance	White or offwhite powder or 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

Stability Stable

Materials to avoid Strong oxidizing agents.

Conditions to avoid Incompatible materials. High temperatures, moisture.

Hazardous reactions / decomposition products N/A

Hazardous polymerization

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 11th 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

Persistence/Degradability N/A

Bioaccumulation

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

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13. Disposal considerations

Waste disposal 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

Contaminated packaging 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

Inventory Status

Inventory	Status
UNITED STATES (TSCA)	Listed
CANADA (DSL)	Listed
EUROPE (EINECS/ELINCS)	Listed
AUSTRALIA (AICS)	Listed
JAPAN (MITI)	Listed
SOUTH KOREA (KECL)	Listed

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16. Other information