

MATERIAL SAFETY DATA SHEET

CALCIUM PHOSPHATE DIBASIC 98%

(Anhydrous)

(Calcium Hydrogen Phosphate)

MSDS CAS: 7757-93-9

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: Calcium phosphate dibasic, Anhydrous

CAS#: 7757-93-9

Synonym: Dicalcium Orthophosphate; Dicalcium phosphate; Calcium hydrogen orthophosphate Calcium Hydrogen Phosphate; Calcium monohydrogen phosphaste

Chemical Name: Phosphoric acid, calcium salt (1:1)

Chemical Formula: CaHPO₄

Brand : OXFORD

Details Of The Supplier Of The Safety Data Sheet :

Company identification: **OXFORD LAB FINE CHEM LLP**
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
Navghar, Vasai (East). Palghar - 401 210.
Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Calcium phosphate dibasic, Anhydrous	7757-93-9	100

Section 2: Composition and Information on Ingredients (Continued)

Toxicological Data on Ingredients:

Calcium phosphate dibasic: ORAL (LD50): Acute: >10000 mg/kg [Rat]. DERMAL (LD50): Acute: >7940 mg/kg [Rabbit].

Section 3: Hazards Identification

Potential Acute Health Effects:

Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact:

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Section 4: First Aid Measures (Continued)

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:

Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage:

Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 8: Exposure Controls/Personal Protection (Continued)

Exposure Limits:

For Particulates Not Otherwise Classified (Nuisance dust): TWA: 10 (mg/m³) from ACGIH (TLV) [United States] Inhalation Total. TWA: 3 (mg/m³) from ACGIH (TLV) [United States] Inhalation Respirable. TWA: 15 (mg/m³) from OSHA (PEL) [United States] Inhalation Total. TWA: 5 (mg/m³) from OSHA (PEL) [United States] Inhalation Respirable. Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Powdered solid.)

Odor : Odorless.

Taste : Tasteless.

Molecular Weight : 136.06 g/mole

Color : White.

pH (1% soln/water) : 6 - 7.4 (25% solution)

Boiling Point : Not available.

Melting Point : Decomposition temperature: 230°C (446°F)

Critical Temperature : Not available.

Specific Gravity : Density: 2.89 (Water = 1)

Vapor Pressure : Not applicable.

Vapor Density : Not available.

Volatility : Not available.

Odor Threshold : Not available.

Water/Oil Dist. Coeff. : Not available.

Ionicity (in Water) : Not available.

Dispersion Properties : Not available.

Solubility : Insoluble in cold water, hot water. Soluble in diluted hydrochloric, nitric, and acetic acids. Solubility in Water: 0.0316 g/100 ml @ 38 deg. C and 0.075 g/100 ml @ 100 deg. C

Section 10: Stability and Reactivity Data

Stability: The product is stable.

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ISO 9001-2008 Certified Company

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Section 10: Stability and Reactivity Data (Continued)

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials, dust generation.

Incompatibility with various substances : Reactive with oxidizing agents.

Corrosivity : Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available

Special Remarks on Corrosivity : Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): >10000 mg/kg [Rat]. Acute dermal toxicity (LD50): >7940 mg/kg [Rabbit].

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Section 11: Toxicological Information (Continued)

Special Remarks on other Toxic Effects on Humans

Acute Potential Health Effects: **Skin:** Causes skin irritation. May cause dermatitis **Eyes:** Causes eye irritation. **Inhalation:** May cause respiratory tract irritation with coughing and sneezing. **Ingestion:** May cause mild gastrointestinal tract irritation (distress), flatulence, cramps, nausea, vomiting, constipation or diarrhea. No adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed. If ingested in large amounts, Calcium salts may affect cardiovascular system (hypertension, atrial fibrillation, vasodilation), behavior/nervous system (confusion, somnolence, coma, decreased tendon reflexes, depression, fatigue, hallucinations, lethargy, weakness, stupor), kidneys (abnormal renal function, renal calculas) depending on the amount and duration of ingestion. May also cause acidosis or alkalosis, hypercalcemia. **Skin:** Repeated or prolonged contact may cause drying and chapping of the skin.

Section 12: Ecological Information

Ecotoxicity: Ecotoxicity in water (LC50): >1000 mg/l 96 hours [Daphnia (daphnia)].

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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Section 14: Transport Information

Land transport (ADR-RID)

General information : Not regulated.

Sea transport (IMDG) [English only]

General information : Not regulated.

Air transport (ICAO-IATA) [English only]

General information : Not regulated.

Section 15: Other Regulatory Information

Federal and State Regulations :

TSCA 8(b) inventory: Calcium phosphate dibasic.

Other Regulations:

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):

Not controlled under WHMIS (Canada).

DSCL (EEC):

R36/38- Irritating to eyes and skin. S24/25- Avoid contact with skin and eyes. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36- Wear suitable protective clothing.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

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Section 15: Other Regulatory Information (Continued)

Flammability: 0
Reactivity: 0
Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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