

GARDENA, CA
NEW BRUNSWICK, NJ

Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
		See Section 15.

Section 1. Chemical Product and Company Identification		Page Number: 1
Common Name/ Trade Name	Calcium phosphate dibasic	
Manufacturer	ProChem, Inc. 826 Roosevelt Rd Rockford, IL 61109	CAS# 7757-93-9
Commercial Name(s)	Not available.	RTECS Not available.
Synonym	Dicalcium Orthophosphate; Dicalcium phosphate; Calcium hydrogen orthophosphate Calcium Hydrogen Phosphate; Calcium monohydrogen phosphaste	TSCA TSCA 8(b) inventory: Calcium phosphate dibasic
Chemical Name	Phosphoric acid, calcium salt (1:1)	CI# Not available.
Chemical Family	Not available.	IN CASE OF EMERGENCY CHEMTREC (24hr) 800-424-9300 CALL 815-398-1788
Chemical Formula	CaHPO4	
Supplier		

Section 2. Composition and Information on Ingredients					
Name	CAS #	Exposure Limits			% by Weight
		TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	
1) Calcium phosphate dibasic	7757-93-9				100
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.
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.
Exposure Limits	For Particulates Not Otherwise Classified (Nuisance dust): TWA: 10 (mg/m ³) from ACGIH (TLV) [United States] Inhalation Total. TWA: 3 (mg/m ³) from ACGIH (TLV) [United States] Inhalation Respirable. TWA: 15 (mg/m ³) from OSHA (PEL) [United States] Inhalation Total. TWA: 5 (mg/m ³) 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.
Molecular Weight	136.06 g/mole	Taste	Tasteless.
pH (1% soln/water)	6 - 7.4 (25% solution)	Color	White.
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.
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.
Special Remarks on other Toxic Effects on Humans	<p>Acute Potential Health Effects:</p> <p>Skin: Causes skin irritation. May cause dermatitis</p> <p>Eyes: Causes eye irritation.</p> <p>Inhalation: May cause respiratory tract irritation with coughing and sneezing.</p> <p>Ingestion: 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 an mouthful) are swallowed. If ingested in large amounts, Calcium salts may affect cardiovascular system (hypertension, atrial fibrillation, vasodilation), behavior/nervous sytem (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.</p> <p>Chronic Potential Health Effects:</p> <p>Skin: Repeated or prolonged contact may cause drying and chapping of the skin.</p> <p>The toxicological properties of this substance have not been fully investigated.</p>


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

DOT Classification	Not a DOT controlled material (United States).
Identification	Not applicable.
Special Provisions for Transport	Not applicable.
DOT (Pictograms)	

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations	TSCA 8(b) inventory: Calcium phosphate dibasic																			
California Proposition 65 Warnings																				
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.)	<table border="1" style="display: inline-table;"> <tr> <td style="background-color: black; color: white;">1</td> <td rowspan="3" style="vertical-align: middle;"> National Fire Protection Association (U.S.A.) </td> </tr> <tr> <td style="background-color: black; color: white;">0</td> </tr> <tr> <td style="background-color: black; color: white;">0</td> </tr> <tr> <td>Reactivity</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Personal Protection</td> <td style="text-align: center;">E</td> </tr> </table>	1	National Fire Protection Association (U.S.A.)	0	0	Reactivity	0	Personal Protection	E	<table border="1" style="display: inline-table;"> <tr> <td style="background-color: black; color: white;">0</td> <td rowspan="3" style="vertical-align: middle;"> Health </td> </tr> <tr> <td style="background-color: black; color: white;">0</td> </tr> <tr> <td style="background-color: black; color: white;">0</td> </tr> <tr> <td>Flammability</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Reactivity</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Specific hazard</td> <td style="text-align: center;">0</td> </tr> </table>	0	Health	0	0	Flammability	0	Reactivity	0	Specific hazard	0
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WHMIS (Canada)
(Pictograms)



DSCL (Europe)
(Pictograms)



TDG (Canada)
(Pictograms)



ADR (Europe)
(Pictograms)



Protective Equipment



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent.



Safety glasses.

Section 16. Other Information

References Not available.

Other Special Considerations Not available.

PREPARATION DATE: NOV 2005

Notice to Reader

Calcium phosphate dibasic

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All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, ProChem Chemicals Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.