



MSDS - Dicalcium Phosphate

Issued August 29, 2007

Section 1. Product Information

Chemical Name and/or Synonym: Dicalcium Phosphate

Product Use: Feed Ingredient

Distributed by Pestell Minerals & Ingredients, New Hamburg, ON Canada

24 Hour Emergency Telephone (Canutec): 613-996-6666

Section 2. Hazardous Ingredients

Dicalcium Phosphate, Dihydrate: CAS Reg. No. 7758-23-8

Monocalcium Phosphate Monohydrate: CAS Reg. No. 7758-23-8

WHMIS Hazard: Based on current available data this product does not meet the regulatory definition of a hazardous substance. However, good industrial hygiene practices should be used in handling it.

Section 3. Physical Data

Material at normal conditions is solid

Appearance/Color/Odor: White/grey powder, solid, odorless

Boiling/Freezing Point: Not identified

Solubility in Water: Slightly soluble 1.80 wt/wt% at 100°C (212°F)

Specific Gravity (H₂O=1): 2.2 pH: 2.8 (10% slurry)

Melting Point: Loses water at 228°F

Bulk Density Loose: 57 to 60lbs/ft³

Section 4. Fire or Explosion Hazard

Conditions of Flammability: Non flammable

Hazardous Combustion Products: Not identified

Unusual Fire and Explosion Hazards: Not combustible

Fire Extinguishing Procedures: Use appropriate agent for surrounding fire. Monocalcium phosphate is a non flammable inorganic salt. It may release small amounts of toxic and/or irritating phosphorous oxides when heated to high temperatures as in a fire.

Special Fire Fighting Procedures: Firefighters should wear NIOSH/MSHA approved self contained breathing apparatus and full protective clothing.

Section 5. Reactivity Data

Stability: Stable under normal handling and storage conditions

Incompatibility: None

Hazardous Decomposition Products: Phosphorous oxides at very high temperatures

Hazardous Polymerization: Will not occur

Conditions to Avoid: High temperatures may cause release of phosphorous oxides.

Section 6. Toxicological Properties

Significant Routes of Exposure: Skin or eye contact, inhalation, ingestion

Inhalation: Low hazard for usual industrial or commercial handling

Ingestion: Not identified

Skin: Low hazard for usual industrial or commercial handling

Eyes: No specific hazard known. May cause transient irritation

Exposure Limits: Not established

Toxicity to Animals: Acute oral toxicity LD50 (rat): 17,500 mg/kg

Section 7. Preventive Measures

Personal Protective Equipment

Respiratory Protective Equipment: When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations above 15 mg/m³.

Eyes and Face: Tight fitting goggles should be worn in dusty industrial environments.

Hands, Arms, Body: If irritation occurs, impervious gloves and suitable long sleeved clothing should be worn.

Normal Handling

Ventilation: Local exhaust or other ventilation that will reduce dust concentrations to less than the recommended Permissible Exposure Limit.

Handling: Use appropriate personal protective equipment as specified in Section 8. Avoid contact with skin and eyes. Avoid inhalation and ingestion.

Storage: Store in ventilated area, away from fire hazards.

Engineering Controls: Local exhaust ventilation at the point of generation.

Environmental

Small Spill: Monocalcium phosphate is used as a feed ingredient. If uncontaminated, recover and reuse product. If contaminated with other materials, collect in suitable containers.

Large Spill: Monocalcium phosphate is used as a feed ingredient. Large spills, however, can kill vegetation. Prevent large quantities from contacting vegetation and waterways. If uncontaminated, recover and reuse product. If contaminated with other materials, collect in suitable containers.

Release Note: If spill could potentially enter any waterway, including intermittent dry creeks, contact local authorities. **If in the U.S. contact the US Coast Guard National Response Center toll free at 800-424-8802. In case of accident or road spill notify ChemTrec in USA at 800-424-9300; Canutec in Canada at 613-996-6666. ChemTrec in other countries at (International Code)+1-703-527-3887.**

Waste Disposal: Depending on the type and extent of contamination, if any, special disposal methods may be required. Consult state or federal environmental regulatory agencies for acceptable disposal procedures and locations.

Section 8. First Aid Measures

Eyes: Flush thoroughly with water, including under the eyelids. Get medical attention if irritation continues.

Skin: Wash thoroughly with soap and water

Ingestion: Do not induce vomiting. If conscious and large amount is ingested give several glasses of water to dilute stomach contents. Call a physician if a large amount of Monocalcium Phosphate is swallowed.

Inhalation: Remove to fresh air. Keep warm. Get medical attention if discomfort continues.

Disclaimer

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