

JUN 19 1985

F 8-28
JUN 8 5 RECD

(2)

Monsanto MATERIAL SAFETY DATA

Page 1 of 3

MONSANTO PRODUCT NAME
TRICALCIUM PHOSPHATE

MONSANTO COMPANY
 800 N. LINDBERGH BLVD.
 ST. LOUIS, MO 63167

Emergency Phone No.
 (Call Collect)
 314-694-1000

PRODUCT IDENTIFICATION

Synonyms: Calcium Phosphate Tribasic, Calcium hydroxy apatite

Chemical Formula: $Ca_{10}(OH)_2(PO_4)_6$

Cas No.: 1306-06-5

Dot Proper Shipping Name: Not Applicable

Dot Hazard Class/ I.D. No.: Not Applicable

Dot Label: None Required

Hazardous Substance(s)/ RQ(s): Not Applicable

U.S. Surface Freight Classification: Calcium Phosphate

WARNING AND FIRST AID STATEMENTS

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. THESE PRACTICES INCLUDE AVOIDING UNNECESSARY EXPOSURE AND REMOVAL OF THE MATERIAL FROM EYES, SKIN AND CLOTHING.

OCCUPATIONAL CONTROL PROCEDURES

Eye Protection: Tricalcium phosphate does not present significant eye irritation or eye toxicity requiring special protection.

Skin Protection: Wear protective gloves to minimize skin contact.

Respiratory Protection: Use NIOSH approved equipment when airborne exposure is excessive. Consult respirator manufacturer to determine appropriate type equipment for given application.

Ventilation: Provide ventilation to minimize exposure. Local exhaust ventilation preferred.

Airborne Exposure Limits: Product: Tricalcium Phosphate wt. % 100

Although no specific exposure limit has been established for this material, OSHA and ACGIH have established limits for nuisance dusts:

OSHA PEL/TWA: Total 15 mg/m³; Respirable 5 mg/m³
 ACGIH TLV/TWA: Total 10 mg/m³; Respirable 5 mg/m³

Keep exposure below these limits.

MATERIAL SAFETY DATA

TRICALCIUM PHOSPHATE

FIRE PROTECTION INFORMATION

This material is not combustible.

REACTIVITY DATA

Materials to Avoid: None.

Hazardous Decomposition Products: None.

Hazardous Polymerization: Does not occur.

PHYSIOLOGICAL EFFECTS SUMMARY

Oral LD₅₀ (Rat): >10,000 mg/kg, Practically Nontoxic
Dermal LD₅₀ (Rabbit): >7,940 mg/kg, Practically Nontoxic
Eye Irritation (Rabbit): 9.3 on a scale of 110.0, Slightly Irritating
Skin Irritation (Rabbit): 0.0 on a scale of 8.0, Nonirritating

On the basis of these tests, this material does not appear to possess any toxicologic properties which would require special handling other than the good industrial hygiene and safety practices employed with any industrial chemical.

PHYSICAL DATA

Appearance and Odor: White, odorless powder

Solubility: Practically insoluble in water but dissolves readily in dilute hydrochloric and nitric acids

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

SPILL, LEAK & DISPOSAL INFORMATION

Waste Disposal: Dispose of as a solid in a sanitary landfill in accordance with all local, state and federal regulations.

Spill or Leakage Procedures: Sweep up or shovel material into containers and remove to a sanitary landfill in accordance with all federal, state and local regulations.

DATE: 9/83

REVISED: X

SUPERSEDES: 10/71

MSDS NO.: 001306065

FOR ADDITIONAL NON-EMERGENCY INFORMATION, CONTACT:

Manager, Product Acceptability
Nutrition Chemicals Division
Monsanto Company
314-694-1000