



American International Chemical, Inc.

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MATERIAL SAFETY DATA SHEET

VITAMIN D3 (Cholecalciferol)

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
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Date: April 2010

Synonymes: Activate 7-Dehydrocholesterol

CAS #: 67-97-0

DOT Hazard Class: Toxic Solids, Organic, N.O.S.
(Vitamin D 3Cholecalciferol)
UN 2811, Class 6.1, PG II

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Vitamin D3 -100%

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: White to off white, crystalline powder, insoluble in water, which is **highly toxic** and can cause a dust explosion.

POTENTIAL HEALTH EFFECTS:

Skin: May cause skin irritation.

Eyes: May cause irritation or burning.

Inhalation: May cause irritation to the respiratory tract.

Ingestion: Is a toxic hazard do not ingest or breath dusts.

CARCINOGENICITY: Not Identifiable

SECTION 4 - FIRST AID MEASURES

Skin: Immediately wash skin with soap and water for at least 15 minutes.

Eyes: Immediately flush with plenty of water for at least 15 minutes, holding eye lids apart.

Inhalation: Remove to the fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: Wash out mouth with water.

On All Of The Above: Consult a physician

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Non Combustible

Flammable Limits: Non Combustible

Extinguishing Media: Use media that is appropriate to treat surrounding fire.

Special Fire Fighting Procedures:

Use fire fighting procedure that is appropriate to treat surrounding fire. All firefighters should use self-contained breathing apparatus and full fire-fighting turn-out gear.

Unusual Fire Explosion Hazard: During a fire, irritating and highly toxic gasses may be generated by thermal decomposition or combustion. **Danger of dust explosion.**

Auto Ignition Temperature: Not Available

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unnecessary or unprotected personnel.

Contain spill, sweep up, collect and place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways.

SECTION 7 - HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Use with adequate ventilation and handle small quantities under a hood. Avoid breathing dust. Store in cool dry area away from light, heat and other incompatible materials. Store between +2° and +8°C. Upon opening, the contents should be used immediately.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use a NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate dust from the work area and maintain concentrations below the limit.

SKIN AND EYE PROTECTION: Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin and eyes from dust.

WORK, HYGIENIC PRACTICES:

As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: Not Available

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

VITAMIN D3
(Cholecalciferol)

Boiling Point: Not Available

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H₂O=1): Not Available

Percent Volatile by Volume (%): Not Applicable

Melting Point: 83 – 86 °C

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Insoluble

pH: Not Available

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides.

KEEP AWAY FROM: Heat, light, humidity, oxidizers, acids and atmosphere.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity:

- LD 50 35-47mg/kg (oral rat)
- LD 50 61 mg/kg (dermal rat)
- LC 50 0.13 to 0.38 g/m³, 4 hr (inhalation rat)

SECTION 12 - ECOLOGICAL INFORMATION

Not Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

SECTION 14 - TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Toxic Solids, Organic, N.O.S.
(Vitamin D3 Cholecalciferol)
UN 2811, Class 6.1, PG II

SECTION 15 - REGULATORY INFORMATION

OSHA STATUS: Target Organ Effect, Toxic by inhalation, Highly toxic by ingestion, by skin absorption; Teratogen; Reproductive hazard.

TSCA STATUS: Listed

CERCLA REPORTABLE REQUIREMENTS: (RQ) None

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance Not listed

Section 313 Toxic Chemicals: Not listed

Section 311/312 Hazard Category: Acute Health Hazard: Immediate
Chronic Health Hazard: Delayed

SECTION 16 - OTHER INFORMATION

NFPA Rating:

- Health hazard: 4
- Fire: 0
- Reactivity: 0

Reason for Issue: New Product

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