



American International Chemical, Inc.

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MATERIAL SAFETY DATA SHEET

VITAMIN D3 400m IU (Cholecalciferol)

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

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

Date: June 2008

Synonyms: Cholecalciferol; Vitamin D3; Activated 7- Dehydrodcholesterol

CAS #: 67-97-0

DOT Hazard Class: Toxic, Solids, Organic, N.O. S.
(Cholecalciferol)
UN 2811
Class 6.1
Packing Group II
Toxic

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Vitamin D3 – 100% - 400m IU

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: A white to creamy crystalline powder that **is highly toxic**, should not be swallowed, in contact with skin or inhaled. Capable of causing dust explosions.

SECTION 4 - FIRST AID MEASURES

POTENTIAL HEALTH EFFECTS:

Skin: Immediately remove contaminated clothing. Wash with large amount of soap and water for several minutes.

SECTION 4 - FIRST AID MEASURES Continued:

Eyes: Remove contacts if applicable. Wash eyes (under eyelids) with water for 15 minutes. Seek a physician.

Inhalation: Move to fresh air. Administer oxygen if necessary. Call a physician.

Ingestion: Wash out the mouth with water if possible. Call a physician.

On All Of The Above: Consult a physician if symptoms persist

CARCINOGENICITY: No available

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Not Applicable

Flammable Limits: Not Applicable

Extinguishing Media: Water, carbon dioxide, foam or dry chemical suitable for 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. Capable of creating a dust explosion.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

Wear self-containing breathing apparatus and appropriate personal protection. 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

Handle very carefully. Do not breath dust. Do not get in eyes, on skin or clothing. Handle under a laboratory hood. Store at 2-8 °C, and keep tightly closed and away from moisture, light and heat. Store in a secure area.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: laboratory fume hood or an appropriate respirator should be used.

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

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION Continued:

SKIN AND EYE PROTECTION: Use a full face respirator and work under a laboratory fumed hood. Protective gloves are required. An eye wash should be available, wear lab coat or protective clothing with long sleeves.

WORK, HYGIENIC PRACTICES:
Wash hands and arms thoroughly after handling this material, clean up spills immediately.

EXPOSURE LIMITS: Not Available

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not Determined.

Vapor Pressure (MM Hg): Not Available

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H₂O=1): Not Available

Percent Volatile by Volume (%): Not Applicable

Melting Point: ~ 84.5 °C (~184 °F)

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Water dispersible. Insoluble in water (<0.01mg/l @ 20 °C).

pH: Not Available

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: When exposed to light and heat, potency will deteriorate.

HAZARDOUS POLYMERIZATION: Not determined nor anticipated under normal handling and storage conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide.

KEEP AWAY FROM: Moisture, direct sunlight, heat, conditions that might generate heat. Also strong oxidizing agents, acid chlorides and acid anhydrides.

INCOMPATIBILITIES: Strong oxidizing agents.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral rat LD50 35-47mg/kg

Dermal Rat LD50 61-185mg/kg

Inhalation Rat LC50 0.13 to 0.38g/m3, 4 hours

Local Effect

Eye: non irritant [rabbit]

Skin: non irritant [rabbit]

Chronic Toxicity

Subcutaneous route, after repeated exposure, rat, >mg/kg, foetotoxic effect.

Oral route, after repeated exposure, rat, target organ: kidney, 625ppb, observed effect.

Oral route, after repeated exposure, rabbit, target organ: cardiovascular system, 625ppb, observed

No mutagenic effect

Reproduction Toxicity

May lead to malformations at dose levels that cause maternal toxicity.

SECTION 12 - ECOLOGICAL INFORMATION

Biologic Degradation

No data

Ecotoxic effect

Fishes, Brachydanio rerio, LC50 96 hours, >100ml:[saturated solution]

Further Ecological Data

Do not allow product to enter sewage system, waterways or soil.

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: VITAMIN D3
Toxic, Solids, Organic, N.O. S.
(Cholecalciferol)
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SECTION 15 - REGULATORY INFORMATION

Vitamin D3 400m IU Cholecalciferol

OSHA STATUS: Hazardous

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: Poison

SECTION 16 - OTHER INFORMATION

HMIS: Health Hazard - 3 Fire Hazard - 1 Reactivity - 0

Reason for Issue: New Product

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