

**AERCHEM INC.**  
**320 North Walnut St.**  
**Bloomington, IN 47404**

Telephone: 812.334.9996

Fax: 812.334.1960

Emergency: 800.424.9300

---

**SECTION 1: IDENTIFICATION**

**Effective Date:** 1/15/97  
**Product Name:** Cholecalciferol  
**Common Name:** Vitamin D3

**Chemical Formula:** C<sub>27</sub>H<sub>44</sub>O  
**CAS No.:** 67-97-0

---

**SECTION 2: HAZARDOUS INGREDIENTS:**

Very dangerous in case of eye contact (irritant), of ingestion. Slightly dangerous to dangerous in case of inhalation. Sever over-exposure can result in death. Can be fatal if inhaled or ingested. Inflammation of eye is characterized by redness, watering, and itching.

---

**SECTION 3: PHYSICAL DATA**

**Physical Data:**

Appearance and Odor:	solid
Boiling point:(760 mm Hg)	decomposes
Vapor Pressure (mmHg):	n/a
Specific Gravity (Water=1):	n/a
Solubility in water:(by weight)	insoluble in cold water
Melting Point:	84.5 °C (184.1°F)
Volatility:	n/a
Vapor Density:	n/a

---

**SECTION 4: FIRE AND EXPLOSION DATA**

**Fire and Explosion Information:**

Flash point:	n/a
Flammable limit:	n/a
Extinguishing Media:	small fire: Use dry chemicals, CO <sub>2</sub> , water spray or foam large fire: Use water spray, fog or foam. Do not use
Unusual Fire and Explosion Hazards:	Material in powder form, capable of creating a dust explosion.

---

**SECTION 5: REACTIVITY DATA**

**Reactivity Data:**

Stable   X   Unstable           

<b>Conditions to Avoid:</b>	n/a
<b>Incompatibilities:</b>	n/a
<b>Hazardous Decomposition or byproducts:</b>	Products of combustion are carbon oxides.
<b>Hazardous Polymerization:</b>	no
<b>Corrosivity:</b>	Non-corrosive in presence of glass

---

**SECTION 6: HEALTH HAZARD DATA**

**Threshold Limit Value (TLV):** n/a  
**Permissible Exposure Limit:**  
**Toxicity:**  
**Oral LD50:** 42 mg/kg (rat); 42.5 mg/kg (mouse); 80 mg/kg (dog)  
**NTP:**  
**IARC Monographs:**

---

**AERCHEM INC.**  
**400 W. 7th Street, Suite 112**  
**Bloomington, IN 47404**

**Tel: 812.334.9996      Fax: 812.334.1960      Emergency: 800.424.9300**

---

**SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES****First Aid:**

**Eyes:** Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.  
**Skin:** No known effect on skin contact, rinse with water for a few minutes.  
**Inhalation:** Allow victim to rest in well ventilated area. Seek medical attention.  
**Ingestion:** Remove dentures if any. Watch for an obstruction in victim's mouth. Remove if possible what is causing obstruction but do not force fingers or hard object between victim's teeth. Have conscious person drink several glasses of water or milk. Induce vomiting by sticking finger in throat. Seek immediate medical attention.

**Spillage:**

**SMALL SPILL:** Use appropriate tools to put the spilled solid in a convenient waste disposal container. **LARGE SPILL:** Poisonous solid. Stop leak without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or all sources of ignition.

confined areas; dike if need. Eliminate

**Disposal:**

Recycle if possible. Consult your local or regional authorities.

---

**SECTION 8: PRECAUTION TO BE TAKEN IN HANDLING AND STORING**

**Other Precautions:** Keep locked up, dry, away from heat, in a cool ventilated place, and away from sources of ignition. Ground all equipment containing material. Empty containers pose a fire risk, evaporate the residue under a fume hood. Do not ingest or breathe dust. Avoid contact with eyes.

**Transport Info.:**

DOT class 6.1, poisonous material. Toxic solid, organic, n.o.s. (Cholecalciferol)  
UN2811 II. Requires DOT poison pictogram

---

**SECTION 9: SPECIAL PROTECTION INFORMATION**

**Ventilation:** Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits.  
**Eye Protection:** Splash goggles  
**Protective gear:** Lab coat  
**Respiratory Protection:** Dust respirator

