

# SAFETY DATA SHEET

# 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Cholecalciferol, USP Grade

PRODUCT NUMBER: V883

COMPANY INFO: PhytoTechnology Laboratories®

PO Box 12205, Shawnee, KS 66282-2205

Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442

www.phytotechlab.com

1-800-535-5053 - US Only EMERGENCY PHONE NUMBER:

1-352-323-3500 - International

**RECOMMENDED USE:** For Research Use Only

Products sold by PhytoTechnology Laboratories® are intended for research and laboratory use

RESTRICTIONS ON USE: only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or

pesticidal products, food additives, or as household chemicals.

### 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

**GHS** Classification:

H301 - Acute toxicity, Oral (Category 3)

H330 - Acute toxicity, Inhalation (Category 2)

H311 - Acute toxicity, Dermal (Category 3)

H372 - Specific target organ toxicity - repeated exposure, Oral (Category 1)

GHS Label elements, including hazard and precautionary statements:

Pictogram:





Signal Word: Danger

# Hazard Statements:

H301 + H311 - Toxic if swallowed or in contact with skin

H330 - Fatal if inhaled.

H372 - Causes damage to organs through prolonged or

repeated exposure if swallowed.

**Precautionary Statements:** 

P260 – Do not breathe dust.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P314 – Get medical advice/attention if you feel unwell.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: (3β,5Z,7E)-9,10-Secocholesta-5,7,10(19)-trien-3-ol; Vitamin D<sub>3</sub>

CAS No.: 67-97-0 Formula:  $C_{27}H_{44}O$ 

Molecular Weight: 384.65 g/mol 200-673-2 EC No.:

| Ingredient      | CAS Number | Percent | Hazardous                                       |  |
|-----------------|------------|---------|---|--|
| Cholecalciferol | 67-97-0    | >99 %   | No exposure limits established by OSHA or ACGIH |  |

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# 4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous

area.

**Route of Entry Symptoms First Aid Procedures** Ingestion May cause irritation if swallowed If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention. Inhalation May cause irritation to respiratory Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, tract ensure clear airway and give oxygen. Get medical attention. Eye Contact Direct contact may cause irritation. Flush immediately with large amounts of water for at least 15 May cause redness, tearing, or minutes. Evelids should be held away from the eyeball to blurred vision. ensure thorough rinsing. Get medical attention if irritation persists. Wash area thoroughly with soap and water. Remove and wash Skin Contact Irritating. May cause reddening, contaminated clothing. Get medical attention if irritation itching or inflammation. persists.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

#### 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use

extinguishing media suitable for surrounding fire.

Special Protective Equipment and

Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved selfcontained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: May emit toxic fumes under fire conditions.

Toxic Gases Produced: Carbon dioxide and carbon monoxide.

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and

Cleanup:

Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water. Do not let products enter drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid

incompatible substances. Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Incompatibilities: Strong oxidizing agents, acid chlorides, acid anhydrides

Recommended Storage Temperature: 2 to 6 °C

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

Threshold Limit Values (TLVs): No data available

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where

eye contact can occur.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: Appropriate respirator.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to off-white powder

pH: No data available Solubility: Soluble in DMSO

Melting Point: 83 - 86 °C (181 - 187 °F) - lit.

Vapor Density: No data available
Vapor Pressure: No data available
Odor: No data available
Odor Threshold: No data available
Viscosity: No data available
Relative Density: No data available

Evaporation Rate: No data available

Initial Boiling Point and

Boiling Range: No data available

Flammability (solid, gas): No data available

Partition coefficient:

n-octanol/water):

Auto-ignition Temperature:

No data available

Decomposition Temperature:

No data available

Flash Point (Closed Cup): No data available

Flammable Limits: Upper (%) – No data available Lower (%) – No data available

No data available

# 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use – material is oxidized and inactivated by moist

air in a matter of days

Possibility of Hazard Reactions: Will not occur

Conditions to Avoid: Moist air, light, dust generation

Incompatibles Materials: Strong oxidizing agents, acid chlorides, acid anhydrides

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide

# 11. TOXICOLOGICAL INFORMATION

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Toxicity:  $LD_{50}$  (Oral-Rat)(mg/Kg): 42

LD<sub>50</sub> (IP-Mouse)(mg/Kg): 136 LD<sub>50</sub> (Oral-Mouse)(mg/Kg): 42.5

Carcinogenicity: NTP: No

IARC: No Z List: No OSHA Reg: No

Reproductive Toxicity: Possible risk of congenital malformation in the fetus.

Symptoms Associated with

Overexposure:

Irritation, itching, gastrointestinal upset, nausea, vomiting, depression, irritability, anorexia,

reproductive effects, possible kidney impairment, changes in adrenal weight, cardiac

abnormalities, dizziness, in extreme cases death

Specific Target Organ

Toxicity:

Single Exposure: No data available

Repeated Exposure: Ingestion - Causes damage to organs through prolonged or repeated

exposure.

Target Organs: Kidneys, heart

**Medical Conditions** 

Pre-existing conditions

Aggravated By Exposure:

Routes of Entry: Ingestion, inhalation, skin and eye contact

NIOSH/RTECS NO: VS2900000

# The toxicological properties of this product have not been thoroughly investigated

# 12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available
Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: No data available

# 13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental

regulations.

EPA Hazardous Waste Number: No data available

# 14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: Toxic solids, organic, n.o.s. (Vitamin D3)

Hazard Class: 6.1 Packing group: II

UN: 2811
Marine pollutant: No
Poison inhalation hazard: No

International:

IMDG: Proper Shipping Name: Toxic solids, organic, n.o.s. (Vitamin D3)

Hazard Class: 6.1 Packing group: II EMS-No.: F-A, S-A

UN: 2811

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Marine pollutant: No

IATA: Proper Shipping Name: Toxic solids, organic, n.o.s. (Vitamin D3)

Hazard Class: 6.1 Packing group: II

UN: 2811

# 15. REGULATORY INFORMATION

TSCA: Yes

SARA TITLE III:

Section 302 (EHS) Ingredients: No
Section 313 Ingredients: No
Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components: CAS No.: 67-97-0 Vitamin D3

New Jersey Right to Know Components: CAS No.: 67-97-0 Vitamin D3

California Prop. 65 Components: This product does not contain any chemicals known to State of California to

cause cancer, birth defects, or any other reproductive harm.

#### 16. OTHER INFORMATION

**HMIS Rating:** 

**NFPA Rating:** 

| Health Hazard | Chronic Health Hazard | Flammability      | Physical Hazard |
|---------------|-----------------------|-------------------|-----------------|
| 4             | *                     | 0                 | 0               |
| Health Hazard | Fire Hazard           | Reactivity Hazard | Special Hazard  |
| 4             | 0                     | 0                 |                 |

<sup>\*</sup>Chronic Hazard: Chronic (long-term) health effects may result from repeated overexposure.

Phyto Technology Laboratories® provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. Phyto Technology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

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