



# Material Safety Data Sheet

Catalog Number: 101224  
Revision date: 24-Apr-2006

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 101224

Product name: VITAMIN D3

Synonyms: Cholecalciferol

Supplier:

MP Biomedicals, LLC  
29525 Fountain Parkway  
Solon, OH 44139  
tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA Exposure Limits:
VITAMIN D3	67-97-0	90 - 100%	None	None

## 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Toxic if swallowed. May be toxic by inhalation or skin contact.

**Category of Danger:**

Toxic

**Principle routes of exposure:** Skin

**Inhalation:** Harmful by inhalation.

**Ingestion:** Toxic if swallowed.

**Skin contact:** Harmful in contact with skin.

**Eye contact:** Risk of serious damage to eyes

**Statements of hazard** Toxic if swallowed

**Statement of Spill or Leak - ANSI Label** Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

**Statement of First Aid** (Insert POISON with Skull & Crossbones)

Call a physician immediately. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**Precautions - ANSI Label** Do not taste or swallow. Wash thoroughly after handling.

## 4. FIRST AID MEASURES

**General advice:** In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Inhalation:** Move to fresh air. Call a physician immediately.

**Skin contact:** Rinse immediately with plenty of water and seek medical advice

**Ingestion:** Call a physician immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

**Eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Protection of first-aiders:** No information available

**Medical conditions aggravated by exposure:** None known

## 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:**

Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam

**Specific hazards:**

Burning produces irritant fumes.

**Unusual hazards:**

None known

**Special protective equipment for firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**Specific methods:**

Water mist may be used to cool closed containers.

**Flash point:**

Not determined

**Autoignition temperature:**

Not determined

**NFPA rating:**

NFPA Health: 3

NFPA Flammability: 0

NFPA Reactivity: 0

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Use personal protective equipment.

**Environmental precautions:**

Prevent product from entering drains.

**Methods for cleaning up:**

Sweep up and shovel into suitable containers for disposal.

## 7. HANDLING AND STORAGE

**Storage:**

+4°C

**Handling:**

Use only in area provided with appropriate exhaust ventilation.

**Safe handling advice:**

Wear personal protective equipment.

**Technical measures/storage conditions:**

Keep containers tightly closed in a cool, well-ventilated place.

**Incompatible products:**

Oxidising and spontaneously flammable products

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures:** Ensure adequate ventilation.

### PERSONAL PROTECTIVE EQUIPMENT

**Respiratory protection:** Breathing apparatus only if aerosol or dust is formed.

**Hand protection:** Pvc or other plastic material gloves

**Skin and body protection:** Usual safety precautions while handling the product will provide adequate protection against this potential effect.

**Eye protection:** Safety glasses with side-shields

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Powder
Formula:	C27H44O
Molecular weight:	384.6
Melting point/range:	85 - 87°C
Boiling point/range:	No Data available at this time.
Density:	No data available
Vapor pressure:	No data available
Evaporation rate:	No data available
Vapor density:	No data available
Solubility (in water):	Insoluble
Flash point:	Not determined
Autoignition temperature:	Not determined

## 10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Polymerization:	None under normal processing.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapours such as carbon oxides.
Materials to avoid:	Strong oxidising agents
Conditions to avoid:	Exposure to air or moisture over prolonged periods.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

#### Acute toxicity

##### Components

VITAMIN D3

#### RTECS Number:

VS2900000

#### Selected LD50s and LC50s

Oral LD50 Rat : 42 mg/kg

Oral LD50 Mouse : 42500 ug/kg

Chronic toxicity:	Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.
Local effects:	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Specific effects:	May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.
Primary irritation:	No data is available on the product itself.
Carcinogenic effects:	No data is available on the product itself.
Mutagenic effects:	No data is available on the product itself.
Reproductive toxicity:	No data is available on the product itself.

## 12. ECOLOGICAL INFORMATION

Mobility:	No data available
Bioaccumulation:	No data available
Ecotoxicity effects:	No data available
Aquatic toxicity:	May cause long-term adverse effects in the aquatic environment.

#### Components

VITAMIN D3

**U.S. DOT - Appendix B -  
Marine Pollutan**  
Not Listed

**U.S. DOT - Appendix B -  
Severe Marine Pollutants**  
Not Listed

**United Kingdom - The Red  
List:**  
Not Listed

<b>Components</b>	<b>Germany VCI (WGK)</b>	<b>World Health Organization (WHO) - Drinking Water</b>	<b>Ecotoxicity - Fish Species Data</b>
VITAMIN D3	Not Listed	Not Listed	Not Listed
<b>Components</b>	<b>Ecotoxicity - Freshwater Algae Data</b>	<b>Ecotoxicity - Microtox Data</b>	<b>Ecotoxicity - Water Flea Data</b>
VITAMIN D3	Not Listed	Not Listed	Not Listed
<b>Components</b>	<b>EPA - ATSDR Priority List</b>	<b>EPA - HPV Challenge Program Chemical List</b>	<b>California - Priority Toxic Pollutants</b>
VITAMIN D3	Not Listed	Not Listed	Not Listed
<b>Components</b>	<b>California - Priority Toxic Pollutants</b>	<b>California - Priority Toxic Pollutants</b>	
VITAMIN D3	Not Listed	Not Listed	

### 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products:**

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

**Contaminated packaging:**

Do not re-use empty containers

### 14. TRANSPORT INFORMATION

**UN/Id No:** 2811

**DOT:**

**Proper shipping name:** Toxic solid, organic, n.o.s.  
**IATA Hazard Label(s):** Toxic  
**Hazard Class:** 6.1 -  
 Toxic substances - oral  
**Packing group:** II

**Emergency Response Guide Number (ERG):** 154

**Components** **U.S. DOT - Appendix A Table 1 - Reportable Quantities**  
 VITAMIN D3 Not Listed

**TDG (Canada):**

**WHMIS hazard class:** D1a very toxic materials


**IMDG/IMO**

**Proper shipping name:** Toxic solid, organic, n.o.s.

**IMDG - Hazard Classifications** Not Applicable

## Components

U.S. DOT - Appendix B - Marine Pollutants	U.S. DOT - Appendix B - Severe Marine Pollutants
VITAMIN D3	Not Listed

## IMO-labels:

## 15. REGULATORY INFORMATION

## International Inventories

## Components

VITAMIN D3

## Inventory - United States TSCA - Sect. 8(b)

Present

## Canada DSL Inventory List -

Present

## Australia (AICS):

Present

## Inventory - China:

Present

## EU EINECS List -

200-673-2; C27H44O

## Inventory - Japan:

9-1054

## Korean KECL:

KE-30911

## Philippines PICCS:

Present

## U.S. regulations:

## Components

VITAMIN D3

## California Proposition 65

Not Listed

## Massachusetts Right to

## Know List:

Not Listed

## New Jersey Right to

## Know List:

Not Listed

## Pennsylvania Right to Know

## List:

Not Listed

## Components

VITAMIN D3

## Florida substance List:

Not Listed

## Rhode Island Right to

## Know List:

Not Listed

## Illinois - Toxic Air

## Contaminants

Not Listed

## Connecticut - Hazardous Air

## Pollutants

Not Listed

## Components

VITAMIN D3

SARA 313 Emission  
reporting/Toxic Release  
of Chemicals

Not Listed

CERCLA/SARA - Section NTP:  
302 Extremely Haz

Not Listed

None

## IARC:

None

## SARA 313 Notification:

The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).

## State Notification:

The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.

## 16. OTHER INFORMATION

Prepared by: Health &amp; Safety

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**End of Safety Data Sheet**