

Vitamin D₂, 1 α -Hydroxy-: sc-205886



The Power to Question

MATERIAL SAFETY DATA SHEET

1. Identification of the substance/preparation and of the company/undertaking

Product name : Vitamin D₂, 1 α -Hydroxy-
Chemical formula : C₂₈H₄₄O₂
Synonym : 1 α -OH-D₂

Catalog # : sc-205886
Supplier : Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, California 95060
800.457.3801 or 831.457.3800
Emergency : ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255
(1-800-CHEMCALL) or call +613 9573 3112

2. Composition / information on ingredients

Substance/Preparation : Substance

Chemical name*	CAS No.	EC Number	Symbol	R-Phrases
1) Vitamin D ₂ , 1 α -Hydroxy-	54573-75-0	Not available.	T+	R28, R63

3. Hazards identification

Physical/chemical hazards : Not applicable.
Human health hazards : DANGER!
MAY BE FATAL IF SWALLOWED.
MAY CAUSE BIRTH DEFECTS BASED ON ANIMAL DATA.

4. First-aid measures

First-Aid measures

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion : If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Skin Contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Eye Contact : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Effects and symptoms

Ingestion : Extremely hazardous in case of ingestion. May be fatal if swallowed.

Aggravating conditions : Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

5. Fire-fighting measures

Flammability of the Product : May be combustible at high temperature.

Extinguishing Media

Suitable : SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Hazardous thermal (de)composition products : These products are carbon oxides (CO, CO₂).

Special fire-fighting procedures : Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Protection of fire-fighters : Be sure to use an approved/certified respirator or equivalent.

6. Accidental release measures

- Personal precautions** : Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
- Small Spill and Leak** : Use appropriate tools to put the spilled solid in a convenient waste disposal container.
- Large Spill and Leak** : Poisonous solid.
Stop leak if 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 confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.

7. Handling and storage

- Handling** : Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids, alkalis.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above -20°C (-4°F).
- Packaging materials**
- Recommended use** : Use original container.

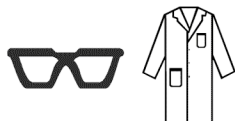
8. Exposure controls/personal protection

- Engineering measures** : Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
- Hygiene measures** : Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

<u>Ingredient Name</u>	<u>Occupational Exposure Limits</u>
1) Vitamin D ₂ , 1 α -Hydroxy-	Not available.

Personal protective equipment

- Respiratory system** : Wear appropriate respirator when ventilation is inadequate.
- Skin and body** : Lab coat.
- Eyes** : Safety glasses.
- Protective Clothing (Pictograms)** :



9. Physical and chemical properties

- Physical state** : Solid. (Crystalline solid.)
- Color** : White.
- Molecular Weight** : 412.7 g/mole
- Solubility** : Easily soluble in methanol.
- Flash point** : Not available.
- Explosive properties** : Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.

10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to avoid** :
- Materials to avoid** : Reactive with oxidizing agents, acids, alkalis.
- Hazardous Decomposition Products** : These products are carbon oxides (CO, CO₂).

11. Toxicological information

RTECS # : VS2950000

Local effects

Skin irritation : Not available.
Acute toxicity : Acute oral toxicity (LD50): 3.5 mg/kg [Rat].
Chronic toxicity : Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
Other Toxic Effects on Humans : Toxic for humans or animal life.
Extremely hazardous in case of ingestion.

May cause congenital malformations in the foetus.

Not available.

Specific effects

Carcinogenic effects : Not available.
Mutagenic effects : Not available.
Reproduction toxicity : Not available.
Teratogenic effects : Classified POSSIBLE for human.

12. Ecological information

Ecotoxicity : Not available.
Toxicity of the Products of Biodegradation : The products of degradation are less toxic than the product itself.

13. Disposal considerations

Methods of disposal; Waste of residues; Contaminated packaging : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information

International transport regulations

UN number : UN2811

Land - Road/Railway

Proper shipping name : Toxic solid, organic, n.o.s.*
ADR/RID Class : CLASS 6.1: Toxic substance.
Packing Group : I
ADR/RID label :



Sea

Proper shipping name : Toxic solid, organic, n.o.s.*
IMDG Class : CLASS 6.1: Toxic substance.
Packing Group : I
IMDG label :



Air

Proper shipping name : Toxic solid, organic, n.o.s.*
UN/ID Number : UN2811
IATA-DGR Class : CLASS 6.1: Toxic substance.
IATA label :



Special Provisions for Transport : Not available.

15. Regulatory information

EU Regulations

Hazard symbol(s)

:



Classification

: Very toxic

Risk Phrases

: R28- Very toxic if swallowed.
R63- Possible risk of harm to the unborn child.

Safety Phrases

: S22- Do not breathe dust.
S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Contains

: - Vitamin D₂, 1 α -Hydroxy-

U.S. Federal Regulations

: TSCA: No products were found.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

HCS Classification

: CLASS: Highly toxic.

State Regulations

:

WHMIS (Canada)

: CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).
No products were found.

16. Other information

Hazardous Material
Information System
(U.S.A.)

Health	4
Fire Hazard	1
Reactivity	0
Personal Protection	a

National Fire
Protection
Association (U.S.A.)



Notice to Reader

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.