



# 25-HYDROXYVITAMIN D3 UNLABELED

## Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 12/04/2013

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Supersedes: 12/04/2013

Version: 3.0

**ULM-9117**

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Substance  
Substance name : 25-HYDROXYVITAMIN D3 UNLABELED  
EC no : 242-990-9  
CAS No : 19356-17-3  
Product code : ULM-9117  
Formula : C<sub>27</sub>H<sub>44</sub>O<sub>2</sub>  
Synonyms : 25-Hydroxycholecalciferol

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
Industrial/Professional use spec : For professional use only

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.  
50 Frontage Road  
Andover, MA 01810  
USA

USA: 1-800-322-1174 Int: 1-978-749-8000  
[cilsales@isotope.com](mailto:cilsales@isotope.com) [www.isotope.com](http://www.isotope.com)

#### Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours)  
International: 1-703-741-5970 (24 hours)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 3 (Oral) H301  
Acute Tox. 3 (Dermal) H311  
Acute Tox. 2 (Inhalation) H330  
STOT RE 1 H372

Full text of H-statements: see section 16

##### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

T; R24  
T; R48/25  
T+; R26

Full text of R-phrases: see section 16

##### GHS-US classification

Acute Tox. 3 (Oral) H301  
Acute Tox. 3 (Dermal) H311  
Acute Tox. 2 (Inhalation) H330  
STOT RE 1 H372

##### Adverse physicochemical, human health and environmental effects

No additional information available

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### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS06

GHS08

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H301+H311 - Toxic if swallowed or in contact with skin  
H330 - Fatal if inhaled  
H372 - Causes damage to organs (respiratory system) through prolonged or repeated exposure (if inhaled, if swallowed, in contact with skin)

Precautionary statements (CLP) :

P260 - Do not breathe dust, fume, gas, mist, spray, vapours  
P264 - Wash hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P280 - Wear protective clothing, protective gloves  
P284 - Wear respiratory protection  
P301+P310 - IF SWALLOWED: Immediately call a doctor  
P302+P352 - IF ON SKIN: Wash with plenty of water

#### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS06

GHS08

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H301+H311 - Toxic if swallowed or in contact with skin  
H330 - Fatal if inhaled  
H372 - Causes damage to organs (Respiratory tract) through prolonged or repeated exposure (Dermal, Inhalation, oral)

Precautionary statements (GHS-US) :

P260 - Do not breathe dust, fume, gas, mist, spray, vapours  
P264 - Wash Both hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P280 - Wear protective clothing, protective gloves  
P284 - Wear respiratory protection  
P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing  
P310 - Immediately call a POISON CENTER or doctor/physician  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell  
P314 - Get medical advice and attention if you feel unwell  
P320 - Specific treatment is urgent (see Hazard pictograms (CLP) on this label)  
P321 - Specific treatment (see Hazard pictograms (CLP) on this label)  
P330 - If swallowed, rinse mouth  
P361 - Remove/Take off immediately all contaminated clothing  
P363 - Wash contaminated clothing before reuse  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
P405 - Store locked up  
P501 - Dispose of contents/container to Comply with applicable regulations

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

| Name   | Product identifier                       | %   | Classification according to Directive 67/548/EEC |
|--|--|-----|--|
| 25-HYDROXYVITAMIN D3 UNLABELED<br>(Main constituent) | (CAS No) 19356-17-3<br>(EC no) 242-990-9 | 100 | T; R24<br>T; R48/25<br>T+; R26                   |

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| Name   | Product identifier                       | %   | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|--|--|-----|--|
| 25-HYDROXYVITAMIN D3 UNLABELED<br>(Main constituent) | (CAS No) 19356-17-3<br>(EC no) 242-990-9 | 100 | Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 2 (Inhalation), H330<br>STOT RE 1, H372 |

Full text of R- and H-statements: see section 16

| Name   | Product identifier  | %   | GHS-US classification  |
|--|---------------------|-----|--|
| 25-HYDROXYVITAMIN D3 UNLABELED<br>(Main constituent) | (CAS No) 19356-17-3 | 100 | Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 2 (Inhalation), H330<br>STOT RE 1, H372 |

Full text of H-statements: see section 16

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Move out of dangerous area. Consult a physician and show this safety data sheet.
- First-aid measures after inhalation : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
- First-aid measures after skin contact : Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
- First-aid measures after eye contact : Flush eyes with water as a precaution.

### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : Fatal if inhaled. May cause respiratory irritation.
- Symptoms/injuries after skin contact : Toxic if absorbed through skin. May cause skin irritation.
- Symptoms/injuries after eye contact : Contact may cause eye irritation.
- Symptoms/injuries after ingestion : Toxic if swallowed.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

- Firefighting instructions : Wear self contained breathing apparatus for fire fighting if necessary.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3. Methods and material for containment and cleaning up

- For containment : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

No additional information available

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep container tightly closed in a dry and well-ventilated place.  
Storage conditions : Store in freezer (-20°C). Protect from light.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

Personal protective equipment : Gloves. Safety glasses. Protective clothing. Self-contained breathing apparatus.



Hand protection : protective gloves.  
Eye protection : Chemical goggles or safety glasses.  
Skin and body protection : Wear suitable protective clothing.  
Respiratory protection : Wear appropriate NIOSH/MSHA approved respirator.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid  
Appearance : Solid.  
Molecular mass : 400.64 g/mol  
Colour : White.  
Odour : No data available  
Odour threshold : No data available  
pH : No data available  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : No data available  
Freezing point : No data available  
Boiling point : No data available  
Flash point : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : No data available  
Vapour pressure : No data available  
Relative vapour density at 20 °C : No data available  
Relative density : No data available  
Solubility : No data available  
Log Pow : No data available  
Log Kow : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosive properties : No data available  
Oxidising properties : No data available  
Explosive limits : No data available

#### 9.2. Other information

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable if stored under recommended conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

Strong oxidizing agents, Acid chlorides, Acid anhydrides.

#### 10.6. Hazardous decomposition products

carbon oxides.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|   |  |
|---|--|
| Acute toxicity                                      | : Toxic if swallowed. Toxic in contact with skin. Fatal if inhaled.  |
| Skin corrosion/irritation                           | : Not classified   |
| Serious eye damage/irritation                       | : Not classified   |
| Respiratory or skin sensitisation                   | : Not classified   |
| Germ cell mutagenicity                              | : Not classified   |
| Carcinogenicity                                     | : Not classified   |
| Reproductive toxicity                               | : Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.  |
| Specific target organ toxicity (single exposure)    | : Not classified   |
| Specific target organ toxicity (repeated exposure)  | : Causes damage to organs (respiratory system) through prolonged or repeated exposure (if inhaled, if swallowed, in contact with skin).  |
| Aspiration hazard                                   | : Not classified   |
| Potential adverse human health effects and symptoms | : Nausea, Headache, Vomiting, Dizziness, Weakness. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence. |
| Symptoms/injuries after inhalation                  | : Fatal if inhaled. May cause respiratory irritation.  |
| Symptoms/injuries after skin contact                | : Toxic if absorbed through skin. May cause skin irritation.   |
| Symptoms/injuries after eye contact                 | : Contact may cause eye irritation.  |
| Symptoms/injuries after ingestion                   | : Toxic if swallowed.  |

### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.

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- Waste disposal recommendations : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
- Ecology - waste materials : Dispose of as unused product.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

- UN-No.(DOT) : 2811  
DOT NA no. UN2811

#### 14.2. UN proper shipping name

- Proper Shipping Name (DOT) : Toxic solids, organic, n.o.s.  
Transport hazard class(es) (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132  
Hazard labels (DOT) : 6.1 - Poison inhalation hazard



- DOT Symbols : G - Identifies PSN requiring a technical name  
Packing group (DOT) : II - Medium Danger  
DOT Special Provisions (49 CFR 172.102) : IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).  
IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle.  
IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner.  
T3 - 2.65 178.274(d)(2) Normal..... 178.275(d)(2)  
TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.  
DOT Packaging Exceptions (49 CFR 173.xxx) : 153  
DOT Packaging Non Bulk (49 CFR 173.xxx) : 212  
DOT Packaging Bulk (49 CFR 173.xxx) : 242

#### 14.3. Additional information

- Other information : No supplementary information available.

#### Overland transport

- Packing group (ADR) : II  
Class (ADR) : 6.1 - Toxic substances  
Hazard identification number (Kemler No.) : 60  
Classification code (ADR) : T2  
Danger labels (ADR) : 6.1 - Toxic substances



- Orange plates : 

- Tunnel restriction code : D/E

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Limited quantities (ADR) : 500g  
EAC code : 2X  
Excepted quantities (ADR) : E4

### Transport by sea

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.  
MFAG-No : 154

### Air transport

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 25 kg  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 100 kg  
Civil Aeronautics Law : Toxic and infectious substances/Toxic substances(Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)

### 14.4. Environmental hazards

Other information : No supplementary information available.

### 14.5. Special precautions for user

### 14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| 25-HYDROXYVITAMIN D3 UNLABELED (19356-17-3)        |   |
|--|---|
| SARA Section 302 Threshold Planning Quantity (TPQ) | SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. |
| SARA Section 311/312 Hazard Classes                | Immediate (acute) health hazard<br>Delayed (chronic) health hazard  |
| SARA Section 313 - Emission Reporting              | Not subject to reporting requirements of the United States SARA Section 313                                       |

### 15.2. International regulations

#### CANADA

No additional information available

#### 15.2.1. National regulations

| 25-HYDROXYVITAMIN D3 UNLABELED (19356-17-3)                 |
|---|
| Not listed on the Canadian IDL (Ingredient Disclosure List) |

### 15.3. US State regulations

| 25-HYDROXYVITAMIN D3 UNLABELED(19356-17-3) |  |
|--|--|
| State or local regulations                 | U.S. - New Jersey - Right to Know Hazardous Substance List<br>U.S. - Pennsylvania - RTK (Right to Know) List<br>This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. |

## SECTION 16: Other information

Other information : This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

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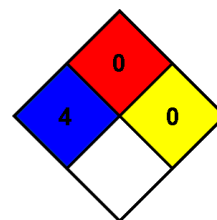
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Full text of R-, H- and EUH-statements:

|                           |  |
|---------------------------|--|
| Acute Tox. 2 (Inhalation) | Acute toxicity (inhal.), Category 2  |
| Acute Tox. 3 (Dermal)     | Acute toxicity (dermal), Category 3  |
| Acute Tox. 3 (Oral)       | Acute toxicity (oral), Category 3  |
| STOT RE 1                 | Specific target organ toxicity — Repeated exposure, Category 1               |
| H301                      | Toxic if swallowed   |
| H311                      | Toxic in contact with skin   |
| H330                      | Fatal if inhaled   |
| H372                      | Causes damage to organs through prolonged or repeated exposure               |
| R24                       | Toxic in contact with skin   |
| R26                       | Very toxic by inhalation   |
| R48/25                    | Toxic: danger of serious damage to health by prolonged exposure if swallowed |
| T                         | Toxic  |
| T+                        | Very toxic   |

- NFPA health hazard : 4 - Materials that, under emergency conditions, can be lethal.
- NFPA fire hazard : 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
- NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



### HMIS III Rating

- Health : 4 Severe Hazard - Life-threatening, major or permanent damage may result from single or repeated overexposures
- Flammability : 0 Minimal Hazard
- Physical : 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*