

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/03/2014 Revision date: 22/01/2020 Supersedes: 20/01/2017

DLM-9116

Version: 2.1

SECTION 1: Identification of the	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: 25-HYDROXYVITAMIN D3 (6,19,19-D3,97%)
EC-No.	: 242-990-9 (Unlabeled)
CAS-No.	: 140710-94-7
Product code	: DLM-9116
Formula	: C27H41D3O2
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 sa	afety data sheet
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA	
USA: 1-800-322-1174 Int: 1-978-749-80 cilsales@isotope.com 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 identificati	on
2.1. Classification of the substance	e 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 hazard classes and 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

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements	
Labeling 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, vapors. 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 - [In case of inadequate ventilation] wear respiratory protection. P301+P310 - IF SWALLOWED: Immediately call a doctor. P302+P352 - IF ON SKIN: Wash with plenty of water.
GHS-US labeling	
Hazard pictograms (GHS-US)	HS06 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, vapors. 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 - [In case of inadequate ventilation] wear respiratory protection. P301+P310 - If swallowed: Immediately call a poison center or doctor P302+P352 - If on skin: Wash with plenty of water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P310 - Immediately call a poison center or doctor P312 - Call a poison center or doctor if you feel unwell P314 - Get medical advice/attention if you feel unwell. P320 - Specific treatment is urgent (see Hazard pictograms (CLP) on this label) P330 - Rinse mouth. P361 - 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. Substances				
Name	Product identifier	%	Classification according to Directive 67/548/EEC	
25-HYDROXYVITAMIN D3 (6,19,19-D3,97%)	(CAS-No.) 140710-94-7 (EC-No.) 242-990-9 (Unlabeled)	100	T; R24 T; R48/25 T+; R26	

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
25-HYDROXYVITAMIN D3 (6,19,19-D3,97%)	(CAS-No.) 140710-94-7 (EC-No.) 242-990-9 (Unlabeled)	100	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 STOT RE 1, H372

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

Name	Product identifier	%	GHS-US classification
25-HYDROXYVITAMIN D3 (6,19,19-D3,97%) (Main constituent)	(CAS-No.) 140710-94-7	100	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 STOT RE 1, H372

Full text of H-phrases: see section 16

3.2. Mixtures				
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 effe	cts, both acute and delayed			
Symptoms/effects after inhalation	: Fatal if inhaled. May cause respiratory irritation.			
Symptoms/effects after skin contact	: Toxic if absorbed through skin. May cause skin irritation.			
Symptoms/effects after eye contact	: Contact may cause eye irritation.			
Symptoms/effects after ingestion	: Toxic if swallowed.			
4.3. Indication of any immediate medica	al 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 su No additional information available	Ibstance or mixture			
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 mea	isures			
6.1. Personal precautions, protective ed	quipment 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				
	so. Do not let product enter drains. Discharge into the environment must be avoided.			
6.3. Methods and material for containm	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				

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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, includi	ng 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/pers	onal protection			
8.1. Control parameters				
No additional information available				
8.2. Exposure controls				
Appropriate engineering controls	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.			
Personal protective equipment	: Gloves. Safety glasses. Protective clothing. Self-contained breathing apparatus.			
Materials for protective clothing	: Wear suitable protective clothing and gloves.			
Hand protection	: Wear suitable protective clothing and gloves.			
Eye protection	: Where excessive dust may result, wear goggles.			
Skin and body protection	: Wear suitable protective clothing.			
Respiratory protection	: Wear appropriate NIOSH/MSHA approved respirator.			
Environmental exposure controls	: Avoid release to the environment.			
SECTION 9: Physical and chemical properties				
9.1. Information on basic physical and c	hemical properties			
Physical state	: Solid			
Appearance	: Solid			
Molecular mass	: 403.66 g/mol (Labeled)			
Color	: White			

Odor	:	No data available
Odor threshold	:	No data available
рН	:	No data available
Relative evaporation rate (butyl acetate=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
Vapor pressure	:	No data available
Relative vapor 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
Oxidizing properties	:	No data available

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Explosion limits : No data available					
9.2. Other information					
No additional information available					
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 anh	nydrides.				
10.6. Hazardous decomposition products					
carbon oxides.					
SECTION 11: Toxicological informat	ion				
11.1. Information on toxicological effects					
Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Fatal if inhaled.				
Skin corrosion/irritation	: Not classified				
Serious eye damage/irritation	: Not classified				
Respiratory or skin sensitization	: 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. 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.				
	-F				
Symptoms/effects after inhalation	: Fatal if inhaled. May cause respiratory irritation.				
Symptoms/effects after inhalation Symptoms/effects after skin contact					
	: Fatal if inhaled. May cause respiratory irritation.				

SECTIO	DN 12: Ecological information
12.1.	Toxicity
No additio	onal information available
12.2.	Persistence and degradability
No additio	onal information available
12.3.	Bioaccumulative potential
No additio	onal information available
12.4.	Mobility in soil
No additio	onal information available
12.5.	Results of PBT and vPvB assessment
No additio	onal information available

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12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	ns
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.
Product/Packaging 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 / A	DN
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.
Class (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Hazard labels (DOT)	: 6.1 - Poison
	POISON 6
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
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)	: 11
Class (ADR)	: 6.1 - Toxic substances
Hazard identification number (Kemler No.)	: 60 . To
Classification code (ADR)	: T2

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Hazard labels (ADR)	: 6.1 - Toxic substances
	6
Orange plates	60 2811
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	500g
EAC	: 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
14.4. Environmental hazards	
Other information	: No supplementary information available.
14.5. Special precautions for user	
14.6. Transport in bulk according to Anne	ex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information		
15.1. US Federal regulations		
25-HYDROXYVITAMIN D3 (6,19,19-D3,97%) (140710-94-7)		
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 Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporing 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 (6,19,19-D3,97%) (140710-94-7)	
Not listed on the Canadian IDL (Ingredient Disclosure List)	

15.3. US State regulations

25-HYDROXYVITAMIN D3 (6,19,19-D3,97%)(140710-94-7)		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental	No	

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25-HYDROXYVITAMIN D3 (6,19,19-D3,97%)(140710-94-7)	
Toxicity	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Other information
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: 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.

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

Acute Tox. 2 (Inhalation)	Acute toxicity (inhalation) 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
Т	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 fire 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.
Hazard Rating	
Health	: 4 Severe Hazard - Life-threatening, major or permanent damage may result from single or repeated overexposures
Flammability	: 0 Minimal Hazard

CIL Substance SDS

Physical

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

: 0 Minimal Hazard