

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 Revision date: 13/04/2020

Date of issue: 12/04/2013

Supersedes: 24/02/2016

ULM-9106

10121011	uale.	10/04/2020	

Version:	3.	0

		ibstance/mixture and of the company/undertaking
	Product identifier	· Substance
Product for Substance		: Substance : 1,25-DIHYDROXYVITAMIN D2 UNLABELED (CHEM. PURITY 95%)
CAS-No.	name	: 60133-18-8
Product co	do	: ULM-9106
Formula		: C28H44O3
Synonyms		: 1alpha,25-Dihydroxycalciferol
		bstance or mixture and uses advised against
	Relevant identified uses	
		: Professional use
Main use c	Professional use spec	: For professional use only
muustnai/i	Tolessional use spec	
1.2.2. l	Jses advised against	
No addition	nal information available	
1.3.	Details of the supplier of the safet	y data sheet
Cambridge 50 Frontag	e Isotope Laboratories, Inc. Je Road	
Andover, Ñ USA	<i>I</i> A 01810	
USA: 1-80	00-322-1174 Int: 1-978-749-8000 sotope.com www.isotope.com	
	·	
Emergency	Emergency telephone number	
• •	1-800-424-9300 (24 hours)	
	al: 1-703-741-5970 (24 hours)	
	N 2: Hazards identification	
2.1. (Classification of the substance or	mixture
Classifica	tion according to Regulation (EC)	No. 1272/2008 [CLP]
Acute Tox.		
	3 (Dermal) H311	
	2 (Inhalation:dust,mist) 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+; R26 T; R24 T; R48/25		
Full text of R-phrases: see section 16		
GHS-US c	lassification	
Acute Tox. Acute Tox.	3 (Oral) H301 3 (Dermal) H311 1 (Inhalation) H330	

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

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

Labeling according to Regulation (EC) No. 1272/2008 (CLP) Hazard pictograms (CLP) : With the second of the secon	2.2. Label elements	
Signal word (CLP) :: Banger Hazard statements (CLP) :: Hazard statements (CLP) Precautionary statements (CLP) :: Precautionary statements (CLP) Precautionary statements (CLP) :: Precautionary statements (CLP) CHS-US labeling :: :: Precautionary statements (CHP) Hazard pictograms (GHS-US) :: :: :: Signal word (GHS-US) :: :: :: :: Signal word (GHS-US) :: :: :: :: :: Hazard pictograms (GHS-US) ::<:: ::<::: ::<:	Labeling according to Regulation (EC) No	. 1272/2008 [CLP]
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 (Skin, respiratory system/digestive system) through prolonged or repeated exposure (in contact with skin, if inhaled, if swallowed) Precautionary statements (CLP) : P260 - Do not breathe dust, fume, gas, mist, spray, vapors. P264 - Wash Both hands thoroughly after handling. P277 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-wentilated 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. P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor. P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor. P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor. P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor. Signal word (GHS-US) : Danger Hazard statements (GHS-US) : Ha01+H311 - Toxic if swallowed or in contact with skin H330 - Fatal if inhaled H372 - Causes damage to organs (respiratory system/digestive system, Skin) through prolonged or repeated exposure (Dermal, Inhalation, call) Precautionary statements (GHS-US) : P260 - Do no the adt, dink or smoke when using this product. P271 - Use only outdoors or in a well-wentilated area. P280 - Wear protective clothing, protective gloves. P284 - [In case of inadequate wentilation] P272 - 128 - II no not adt, dink ken romody in a trans, stray, vapors. P284 - [In case of inadequate wentilation] P271 - Use only outdoors or in a well-we	Hazard pictograms (CLP)	
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Other hazards 2.3.

SECTION 3: Composition/Information on ingredients			
3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
1,25-DIHYDROXYVITAMIN D2 UNLABELED (CHEM. PURITY 95%)	(CAS-No.) 60133-18-8	100	T+; R26 T; R24 T; R48/25
17/04/2020 EN (Enalish US)		2/8

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,25-DIHYDROXYVITAMIN D2 UNLABELED (CHEM. PURITY 95%)	(CAS-No.) 60133-18-8	100	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation:dust,mist), H330 STOT RE 1, H372

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

Name	Product identifier	%	GHS-US classification
1,25-DIHYDROXYVITAMIN D2 UNLABELED (CHEM. PURITY 95%) (Main constituent)	(CAS-No.) 60133-18-8	100	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 1 (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	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
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.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2. Most important symptoms and eff	ects, both acute and delayed
Symptoms/effects	: Causes damage to organs (Skin, respiratory system) through prolonged or repeated exposure (in contact with skin, if inhaled, if swallowed).
Symptoms/effects after inhalation	: Fatal if inhaled.
Symptoms/effects after skin contact	: Toxic if absorbed through skin. May cause skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: Toxic if swallowed.
4.3. Indication of any immediate medic	cal 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 s	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 me	asures
6.1. Personal precautions, protective e	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	

Environmental precautions 6.2.

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

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0.0 Mathematical for an electronic la forma en electronic de la construction de la constr	
6.3. Methods and material for containm For containment	
	: Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
7.2. Conditions for safe storage, includ	ling any incompatibilities
Storage conditions	: Store in freezer (-20°C). Protect from light.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/per	sonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Wash hands and other exposed areas with mild soap and water before eating, drinking or
	smoking and when leaving work.
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear eye protection. Chemical goggles or face shield with safety glasses.
Skin and body protection	: Wear suitable protective clothing, gloves and eye/face protection.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Approved supplied air respirato
Environmental exposure controls	: Avoid release to the environment.
SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	
Physical state	: Solid
Appearance	: Crystalline
Molecular mass	: 428.65 g/mol
Color	: White
Odor	: No data available
Odor threshold	: No data available
PH	: 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
	. Na data available

Solubility

: No data available

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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
Explosion limits	: No data available

9.2. **Other information**

SECTION 10: Stability and read	stivity
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable if stored under recommended con	ditions.
10.3. Possibility of hazardous read	tions
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition pr	roducts
Formed under fire conditions: Carbon oxi	des.
SECTION 11: Toxicological inf	ormation
11.1. Information on toxicological	effects
Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:dust,mist: Fatal if inhaled.

1,25-DIHYDROXYVITAMIN D2 UNLABELED (CHEM. PURITY 95%) (60133-18-8)
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
ATE CLP (dust, mist)	0.050 mg/l/4h
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	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Causes damage to organs (Skin, respiratory system/digestive system) through prolonged or repeated exposure (in contact with skin, if inhaled, if swallowed).
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: 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.
Symptoms/effects after inhalation	: Fatal if inhaled.
Symptoms/effects after skin contact	: Toxic if absorbed through skin. May cause skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: Toxic if swallowed.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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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 assessme	nt
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	IS
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 / AI	
14.1. UN number	
UN-No.(DOT)	: 2811
DOT NA no.	UN2811
14.2. UN proper shipping name	The first set of a second second second
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
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
	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.

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Overlag differences of	
Overland transport	
Packing group (ADR)	: II : 6.1 - Toxic substances
Class (ADR) Hazard identification number (Kemler No.)	
Classification code (ADR)	: 60 : T2
	: 6.1 - Toxic substances
Hazard labels (ADR)	. 0.1 - 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	· 25 kg
(49 CFR 173.27)	. 20 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 Annex	II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory information	
15.1. US Federal regulations	
1,25-DIHYDROXYVITAMIN D2 UNLABELED (
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.

15.2. International regulations

CANADA

1,25-DIHYI	DROXYVI	TAMIN D2	UNLAB	ELEC) (CHEN	M. PURITY 95%) (60133-18-8)

Not listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

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

15.3. US State regulations					
1,25-DIHYDROXYVITAMIN D2 UNLABELED (CHEM. PURITY 95%)(60133-18-8)					
U.S California - Proposition 65 - Carcinogens List	No				
U.S California - Proposition 65 - Developmental Toxicity	No				
U.S California - Proposition 65 - Reproductive Toxicity - Female	No				
U.S California - Proposition 65 - Reproductive Toxicity - Male	No				
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List				

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.

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

Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) 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	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.	
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.	2 0
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.	
Hazard Rating		
Health	: 2 Moderate Hazard - Temporary or minor injury may occur	
Flammability	: 0 Minimal Hazard	
Physical	: 0 Minimal Hazard	

CIL Substance 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