

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: 29/03/2019
 Revision date:
 :
 Version: 1.0

 ULM-10610

SECTION 1: Identification of the sub	ostance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Substance		
Substance name	: 24R,25-DIHYDROXYVITAMIN D3 UNLABELED 97% CHEMICAL PURITY		
CAS-No.	: 55721-11-4		
Product code	: ULM-10610		
Formula	: C27H44O3		
Synonyms	: (24R)-,24,25-Dihydroxycholecalciferol / Secalciferol		
1.2. Relevant identified uses of the sub	stance 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 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 r	nixture		
Classification according to Regulation (EC)	No. 1272/2008 [CLP]		
Acute Tox. 3 (Oral) H301			
Acute Tox. 3 (Dermal) H311			
Acute Tox. 1 (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; R48/24/25			
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. 1 (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

PURITY ULM-10610

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

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 through prolonged or repeated exposure : P260 - Do not breathe dust, fume, gas, mist, spray, vapors. Precautionary statements (CLP) P264 - Wash hands, forearms and face 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 gloves/protective clothing/eye protection/face protection. P284 - [In case of inadequate ventilation] wear Self contained breathing apparatus. P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. **GHS-US** labeling 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 through prolonged or repeated exposure : P260 - Do not breathe dust, fume, gas, mist, spray, vapors. Precautionary statements (GHS-US) P264 - Wash hands, forearms and face 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 gloves/protective clothing/eye protection/face protection. P284 - [In case of inadequate ventilation] wear - Respiratory protection. P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER 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 doctor, a POISON CENTER P312 - Call a doctor, a POISON CENTER if you feel unwell P314 - Get medical advice/attention if you feel unwell. P320 - Specific treatment is urgent (see Hazardous component(s) for labeling on this label) P321 - Specific treatment (see Hazardous component(s) for labeling on this label) P322 - Specific treatment (see Hazardous component(s) for labeling on this label) P330 - Rinse mouth. P361+P364 - Take off immediately all contaminated clothing and wash it before reuse. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation Other hazards 2.3.

No additional information available

1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
24R,25-DIHYDROXYVITAMIN D3 UNLABELED 97% CHEMICAL PURITY	(CAS-No.) 55721-11-4 (EC Index-No.)	100	T; R48/24/25 T+; R26

PURITY ULM-10610

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
24R,25-DIHYDROXYVITAMIN D3 UNLABELED 97% CHEMICAL PURITY	(CAS-No.) 55721-11-4 (EC Index-No.)	100	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 1 (Inhalation), H330 STOT RE 1, H372

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

Name	Product identifier	%	GHS-US classification
24R,25-DIHYDROXYVITAMIN D3 UNLABELED 97% CHEMICAL PURITY (Main constituent)	(CAS-No.) 55721-11-4	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 measure	S
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.
First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area. If not breathing give artificial respiration. Get medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. and soap. Get immediate medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.
4.2. Most important symptoms and o	effects, both acute and delayed
Symptoms/effects	: Causes damage to organs through prolonged or repeated exposure.
Symptoms/effects after inhalation	: Fatal if inhaled.
Symptoms/effects after skin contact	: Toxic in contact with skin.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: Toxic if swallowed.
4.3. Indication of any immediate me	dical attention and special treatment needed
No additional information available	

No additional information available

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.

PURITY ULM-10610

Safety Data Sheet

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6.3. Methods and material for containment and cleaning up For containment : Take up mechanically (sweeping, showeling) and collect in suitable container for disposed of in a safe way, and as per local leg 6.4. Reference to other sections For further information refer to section 13. Section 7.2 Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Provide adequate ventilation to minimize dust and/or vapor concentrations. Hygiene measures Conditions for safe storage, including any incompatibilities Technical measures Store in a weal-wentile table. Keep container tightly closed. Store in a weal-wentile table. Keep container tightly closed. Store in a weal-wentile table. Keep container tightly closed. Store in a weal-wentile table. Keep container tightly closed. Store in a weal-wentile table. Keep container tightly closed. Store in a weal-wentile table. Store in a weal-wentile table. <td cols<="" th=""><th></th></td>	<th></th>	
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H : No data available		
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leting 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)

Vapor pressure

: No data available

: No data available

: No data available

PURITY ULM-10610

Safety Data Sheet

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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
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.	
10.2 Describility of benerdays reactions	
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 anhy	rdrides.
10.6. Hazardous decomposition products	
Carbon oxides (CO, CO2).	
SECTION 11: Toxicological information	
11.1. Information on toxicological effects	- Orde Table V and Brand Table is a strategically disclosed of the data of the state of the state of the state
Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Fatal if inhaled.
24R,25-DIHYDROXYVITAMIN D3 UNLABELED	
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
ATE CLP (gases) ATE CLP (vapors)	10.000 ppmV/4h 0.050 mg/l/4h
	0.005 mg//4h
ATE CLP (dust, mist)	
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	: Possible risk of congenital malformation in the fetus. May cause reproductive disorders.
Reproductive toxicity Specific target organ toxicity – single exposure	Possible risk of congenital malformation in the fetus. May cause reproductive disorders.Not classified
Specific target organ toxicity - single exposure	
Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure	 Not classified Ingestion - Causes damage to organs through prolonged or repeated exposure.
Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure Aspiration hazard Potential Adverse human health effects and	 Not classified Ingestion - Causes damage to organs through prolonged or repeated exposure. Not classified This information is based on our current knowledge and is intended to describe the product for
Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure Aspiration hazard Potential Adverse human health effects and symptoms	 Not classified Ingestion - Causes damage to organs through prolonged or repeated exposure. Not classified 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.
Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure Aspiration hazard Potential Adverse human health effects and symptoms Symptoms/effects after inhalation	 Not classified Ingestion - Causes damage to organs through prolonged or repeated exposure. Not classified 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. Fatal if inhaled.
Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure Aspiration hazard Potential Adverse human health effects and symptoms Symptoms/effects after inhalation Symptoms/effects after skin contact	 Not classified Ingestion - Causes damage to organs through prolonged or repeated exposure. Not classified 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. Fatal if inhaled. Toxic in contact with skin.
Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure Aspiration hazard Potential Adverse human health effects and symptoms Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact	 Not classified Ingestion - Causes damage to organs through prolonged or repeated exposure. Not classified 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. Fatal if inhaled. Toxic in contact with skin. May cause eye irritation.
Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure Aspiration hazard Potential Adverse human health effects and symptoms Symptoms/effects after inhalation Symptoms/effects after skin contact	 Not classified Ingestion - Causes damage to organs through prolonged or repeated exposure. Not classified 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. Fatal if inhaled. Toxic in contact with skin.

PURITY ULM-10610

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

6, 2012 / Rules and Regulations	
SECTION 12: Ecological information	1
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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	ent
No additional information available	
12.6. Other adverse effects No additional information available	
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods Regional legislation (waste) Image: Comparison of the second	: 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 14.1. UN number	NDN
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) Hazard labels (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
	: 6.1 - Poison
DOT Symbols Packing group (DOT)	: G - Identifies PSN requiring a technical name : 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

PURITY ULM-10610

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

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	
Emergency Response Guide (ERG) Number	: 154
Other information	: No supplementary information available.
Overland transport	
Packing group (ADR)	: 11
Class (ADR)	: 6.1 - Toxic substances
Hazard identification number (Kemler No.)	: 60
Classification code (ADR)	: T2
Hazard labels (ADR)	: 6.1 - Toxic substances
Orange plates	5
	<u>60</u> 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" or 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)	9 : 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	
	ex II of MARPOL 73/78 and the IBC Code
14.6. Transport in bulk according to Anne	

Not applicable

SECTION 15: Regulatory information		
15.1. US Federal regulations		
24R,25-DIHYDROXYVITAMIN D3 UNLABELE	D 97% CHEMICAL PURITY (55721-11-4)	
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	Delayed (chronic) health hazard Immediate (acute) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.	
20/02/2010		7/0

PURITY ULM-10610

Safety Data Sheet

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15.2. International regulations

CANADA

24R,25-DIHYDROXYVITAMIN D3 UNLABELED 97% CHEMICAL PURITY (55721-11-4)

Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

24R,25-DIHYDROXYVITAMIN D3 UNLABELED 97% CHEMICAL PURITY(55721-11-4)		
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. 1 (Inhalation)	Acute toxicity (inhalation) Category 1
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
R26	Very toxic by inhalation
R48/24/25	Toxic: danger of serious damage to health by prolonged exposure in contact with skin and 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
Physical	: 0 Minimal Hazard

CIL Substance SDS

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