

VITAMIN D3 (CHOLECALCIFEROL) CP 95% (26,26,26,27,27,27-D6, 98%) 100 UG/ML IN ETHANOL

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: 07/01/2019 Revision date: : Version: 1.0 DLM-10749-C

SECTION 1: Identification of the su	ibstance/mixture and of the company/undertaking	
I.1. Product identifier		
Product form	: Mixtures	
Product name	: VITAMIN D3 (CHOLECALCIFEROL) CP 95% (26,26,26,27,27,27-D6, 98%) 100 UG/ML IN ETHANOL	
Product code	: DLM-10749-C	
I.2. Relevant identified uses of the sul	bstance or mixture and uses advised against	
I.2.1. Relevant identified uses		
Main use category	: Professional use	
ndustrial/Professional use spec	: For professional use only	
I.2.2. Uses advised against		
No additional information available		
I.3. Details of the supplier of the safet	y data sheet	
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA		
JSA: 1-800-322-1174 Int: 1-978-749-8000 <u>ilsales@isotope.com</u> www.isotope.com		
Emergency telephone number		
Emergency numbers:		
Chemtrec: 1-800-424-9300 (24 hours) nternational: 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] Flam. Liq. 2 H225 Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335		
Full text of hazard classes and H-statements : see section 16		
Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] F; R11 Xi; R36/37/38		
Full text of R-phrases: see section 16		

GHS-US classification

Flam. Liq. 2 H225 Skin Irrit. 2 H315 Eye Irrit. 2A H319 STOT SE 3 H335 Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Nerves. heart. liver. Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

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2.2. Label elements	
Labeling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	HS02 GHS07
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H225 - Highly flammable liquid and vapor H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical, lighting, ventilating equipment P261 - Avoid breathing dust, fume, gas, mist, spray, vapors. P264 - Wash hands, forearms and face thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective clothing, protective gloves.
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS02 GHS07

- : Danger
- H225 Highly flammable liquid and vapor
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation
- P210 Keep away from heat, hot surfaces, open flames, sparks. No smoking.
 - P233 Keep container tightly closed.
 - P240 Ground/Bond container and receiving equipment
 - P241 Use explosion-proof electrical, lighting, ventilating equipment
 - P242 Use only non-sparking tools.
 - P243 Take precautionary measures against static discharge.
 - P261 Avoid breathing dust, fume, gas, mist, spray, vapors
 - P264 Wash hands, forearms and face thoroughly after handling.
 - P271 Use only outdoors or in a well-ventilated area.
 - P280 Wear protective clothing, protective gloves.

P302+P352 - If on skin: Wash with plenty of water

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

- P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P312 Call a doctor if you feel unwell
- P321 Specific treatment (see Hazardous component(s) for labeling on this label)
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.
- P370+P378 In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry extinguishing powder to extinguish.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- 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

Hazard statements (GHS-US)

Signal word (GHS-US)

Precautionary statements (GHS-US)

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2.3. Other hazards

PBT: not yet assessed

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

Name	Product identifier	%	Classification according to Directive 67/548/EEC
ETHANOL UNLABELED	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5 (REACH-no) 01-2119457610-43	99.987	F; R11 Xi; R36/37/38
VITAMIN D3 (CHOLECALCIFEROL) CP 95% (26,26,26,27,27,27-D6, 98%)	(CAS-No.) 67-97-0 (Unlabeled) (EC-No.) 200-673-2 (Unlabeled) (EC Index-No.) 603-180-00-4 (Unlabeled)	0.013	T+; R26 T; R48/24/25
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ETHANOL UNLABELED	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5 (REACH-no) 01-2119457610-43	99.987	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
VITAMIN D3 (CHOLECALCIFEROL) CP 95% (26,26,26,27,27,27-D6, 98%)	(CAS-No.) 67-97-0 (Unlabeled) (EC-No.) 200-673-2 (Unlabeled) (EC Index-No.) 603-180-00-4 (Unlabeled)	0.013	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 1 (Inhalation), H330 STOT RE 1, H372
Name	Product identifier	%	GHS-US classification
ETHANOL UNLABELED	(CAS-No.) 64-17-5	99.987	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
VITAMIN D3 (CHOLECALCIFEROL) CP 95% (26,26,26,27,27,27-D6, 98%)	(CAS-No.) 67-97-0 (Unlabeled)	0.013	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

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.	
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.	
First-aid measures after skin contact	Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Gently wash with plenty of soap and water, Get immediate medical advice/attention. Get medical advice/attention. Specific treatment (see Hazard pictograms (CLP) on this label).	
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 effe	cts, both acute and delayed	
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.	
Symptoms/effects after skin contact	: Causes skin irritation.	
Symptoms/effects after eye contact	: Causes serious eye irritation.	
Symptoms/effects after ingestion	: May be harmful 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	: Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).	

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5.2. Special hazards arising from the su	
Fire hazard	: Highly flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
Reactivity	: Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.
5.3. Advice for firefighters	
Firefighting instructions	Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment.
Other information	: Use water spray to cool exposed surfaces.
SECTION 6: Accidental release mea	asures
6.1. Personal precautions, protective ed	quipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
6.1.1. For non-emergency personnel	
Emergency procedures	: Use personal protective equipment as required. Avoid breathing vapors, mist, gas. Ensure adequate air ventilation. Evacuate unnecessary personnel. No flames, no sparks. Eliminate all sources of ignition. Provide adequate ventilation to minimize dust and/or vapor concentrations. Special attention should be given to low areas/pits where flammable vapors can accumulate.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Do r	not allow to enter drains or water courses. Avoid release to the environment.
6.3. Methods and material for containm	ent and cleaning up
For containment	Collect spillage. Clean up any spills as soon as possible, using an absorbent material to collect it. Vacuum with an equipment that avoids ignition risk. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.
Methods for cleaning up Other information	: This material and its container must be disposed of in a safe way, and as per local legislation.: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	 Avoid all eye and skin contact and do not breathe vapor and mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing vapors, spray, mist, gas fume, dust. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands, forearms and face thoroughly after handling.
7.2. Conditions for safe storage, includ	ing any incompatibilities
Technical measures	: Keep container tightly closed in a cool, dry and well-ventilated place. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving
	equipment. Use explosion-proof Hazard pictograms (CLP) equipment.
Storage conditions	 Store in freezer (-20°C). Protect from light.
•	
Incompatible materials	: Store in freezer (-20°C). Protect from light.
Incompatible materials 7.3. Specific end use(s)	: Store in freezer (-20°C). Protect from light.
Incompatible materials 7.3. Specific end use(s) No additional information available	 Store in freezer (-20°C). Protect from light. Heat sources.
7.3. Specific end use(s)	 Store in freezer (-20°C). Protect from light. Heat sources.
Incompatible materials 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls/pers 8.1. Control parameters	 Store in freezer (-20°C). Protect from light. Heat sources.

Italy - Portugal - USA ACGIH ACGIH TWA (ppm)

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Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	1000 ppm
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Upper Respiratory Tract irritation. Confirmed animal carcinogen with unknown relevance to humans.
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	1900 mg/m³
USA NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
USA NIOSH	Remark (NIOSH)	Upper Respiratory Tract irritation. Confirmed animal carcinogen with unknown relevance to humans.
USA OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
USA OSHA	Remark (OSHA)	Upper Respiratory Tract irritation. Confirmed animal carcinogen with unknown relevance to humans. The value in mg/m3 is approximate.
ETHANOL UNLABELED (64-	17-5)	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	1000.0000000 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	1000 ppm
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Upper Respiratory Tract irritation. Confirmed animal carcinogen with unknown relevance to humans.
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	1900 mg/m³
USA NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
USA NIOSH	Remark (NIOSH)	Upper Respiratory Tract irritation. Confirmed animal carcinogen with unknown relevance to humans.
USA OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
USA OSHA	Remark (OSHA)	Upper Respiratory Tract irritation. Confirmed animal carcinogen with unknown relevance to humans. The

VITAMIN D3 (CHOLECALCIFEROL) CP 95% (26,26,26,27,27,27-D6, 98%) 100 UG/ML IN ETHANOL		
DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation	1900 mg/m³	
Long-term - systemic effects, dermal	343 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	950 mg/m³	
DNEL/DMEL (additional information)		
Additional information	DNEL - Workers - Ingestion - Long-term systemic effects - 343 mg/kg BW/d	
PNEC (Water)		
PNEC aqua (freshwater)	0.96 mg/l	
PNEC aqua (marine water)	0.79 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	3.6 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0.63 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	580 mg/l	
8.2. Exposure controls		

: Wear suitable protective clothing and gloves.

Wear suitable protective clothing and gloves.

Appropriate engineering controls

 Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
 Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.

Wear eye protection. Chemical goggles or face shield with safety glasses.

: Wear suitable protective clothing, gloves and eye/face protection.

value in mg/m3 is approximate.

Personal protective equipment

:

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Respiratory protection	:	In case of inadequate ventilation wear respiratory protection. Approved supplied air 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
The properties listed below are for the solvent, the main compon	ent of this mixture.
Physical state	: Liquid
Appearance	: Liquid. clear
Molecular mass	: 46.07 g/mol (Labeled)
Color	: Colorless
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: -114 °C (-173 °F)
Freezing point	: No data available
Boiling point	: 78 °C (172 °F)
Flash point	: 14 °C (57.2 °F) - closed cup
Auto-ignition temperature	: 363 °C (685.4 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapor
Vapor pressure	: 59.5 hPa (44.6 mmHg) at 20 °C (68 °F)
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 0.789 g/ml at 25 °C (77 °F)
Solubility	: Water: completely soluble
Log Pow	: -0.349 at 24 °C (75 °F)
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	: 3.3 - 19 %
9.2. Other information	

9.2. Other information No additional information available

SECTI	N 10: Stability and reactivity				
10.1.	Reactivity				
Highly fla	lighly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.				
10.2.	Chemical stability				
See stor	See storage and expiration date on CoA.				
10.3.	Possibility of hazardous reactions				
Hygrosco	ic.				
10.4.	Conditions to avoid				
Heat. Op	n flame. Direct sunlight. Sparks.				
10.5.	ncompatible materials				
Alkali me	Alkali metals. ammonia. Oxidizing agent. Peroxides.				
10.6.	Hazardous decomposition products				
	ides (CO, CO2).				
SECTION 11: Toxicological information					
11.1.	nformation on toxicological effects				
Acute to:	: Not classified				

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VITAMIN D3 (CHOLECALCIFEROL) CP 95%	(26,26,26,27,27,27-D6, 98%) 100 UG/ML IN ETHANOL
LD50 oral rat	10470 mg/kg
LD50 dermal rat	15800 mg/kg
LC50 inhalation rat (mg/l)	30000 mg/l
ATE CLP (oral)	10470.000 mg/kg body weight
ATE CLP (dermal)	15800.000 mg/kg body weight
ATE CLP (vapors)	30000.000 mg/l/4h
ATE CLP (dust, mist)	30000.000 mg/l/4h
VITAMIN D3 (CHOLECALCIFEROL) CP 95%	(26,26,26,27,27,27-D6, 98%) (67-97-0 (Unlabeled))
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
ATE CLP (gases)	10.000 ppmV/4h
ATE CLP (vapors)	0.050 mg/l/4h
ATE CLP (dust, mist)	0.005 mg/l/4h
ETHANOL UNLABELED (64-17-5)	
LD50 oral rat	10470 mg/kg
LD50 dermal rat	15800 mg/kg
LC50 inhalation rat (mg/l)	30000 mg/l
ATE CLP (oral)	10470.000 mg/kg body weight
ATE CLP (dermal)	15800.000 mg/kg body weight
ATE CLP (vapors)	30000.000 mg/l/4h
ATE CLP (dust, mist)	30000.000 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	rabbit No skin irritation (OECD 404 method) : Causes serious eye irritation. Eyes rabbit moderate eye irritation
	(OECD 404 method)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	: Carcinogenicity - Mouse - Oral Tumorigenic: Equivical tumorigenic agent by RTECS criteria. Liver: Tumors. Blood: Lymphomas including Hodgkin's disease.
Reproductive toxicity	: Reproductive toxicity. oral. human. female. Effects on Newborn: Other neonatal measures or effects.
	Reproductive toxicity Oral - human - female - Effects on Newborn: Apgar score (human only). Effects on Newborn: Drug dependence.
Specific target organ toxicity – single exposure	: May cause respiratory irritation.
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: CNS depression. Narcosis. Risk of serious damage. to. heart. 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. Stomach - Irregularities - Based on Human Evidence.
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation. May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
	-

SECTION 12: Ecological information

12.1.	Toxicity		
Ecology	- general	:	The product is not considered harr

The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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LC50 fish 1	14200 mg/l Pimephales promelas (fathead minnow) - 96 h			
EC50 Daphnia 1	5012 mg/l Ceriodaphnia dubia (Water flea) - 48 h			
EC50 other aquatic organisms 1	275 mg/l Chlorella vulgaris (Fresh water algae) - 72 h (OECD method 201)			
NOEC (acute)	9.6 mg/l Daphnia magna (Water flea) - 9 d			
ETHANOL UNLABELED (64-17-5)				
LC50 fish 1	14200 mg/l Pimephales promelas (fathead minnow) - 96 h			
EC50 Daphnia 1	5012 mg/l Ceriodaphnia dubia (Water flea) - 48 h			
EC50 other aquatic organisms 1	275 mg/l Chlorella vulgaris (Fresh water algae) - 72 h (OECD method 201)			
NOEC (acute)	9.6 mg/l Daphnia magna (Water flea) - 9 d			

12.2. Persistence and degradability				
VITAMIN D3 (CHOLECALCIFEROL) CP 95% (26,26,26,27,27,27-D6, 98%) 100 UG/ML IN ETHANOL				
Persistence and degradability Readily biodegradable.				
BOD (% of ThOD)	95 % ThOD			
ETHANOL UNLABELED (64-17-5)				
Persistence and degradability	Readily biodegradable.			
BOD (% of ThOD)	95 % ThOD			
12.3. Bioaccumulative potential				
VITAMIN D3 (CHOLECALCIFEROL) CP 95% (2	6,26,26,27,27,27-D6, 98%) 100 UG/ML IN ETHANOL			
Log Pow	-0.349 at 24 °C (75 °F)			
Bioaccumulative potential	Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.			
ETHANOL UNLABELED (64-17-5)				
Log Pow -0.349 at 24 °C (75 °F)				
Bioaccumulative potential Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expect				
12.4. Mobility in soil				

No additional information available

12.5. Results of PBT and vPvB assessment

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PBT: not yet assessed		
ETHANOL UNLABELED (64-17-5)		
PBT: not yet assessed		
12.6.	Other adverse effects	

No additional information available

SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.				
: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.				
: Handle empty containers with care because residual vapors are flammable.				
: Dispose of as unused product.				

SECTION 14: Transport information				
In accordance with ADR / RID / IMDG / IATA / ADN				
14.1. UN number				
UN-No.(DOT)	: 1170			
DOT NA no.	UN1170			
14.2. UN proper shipping name				
Proper Shipping Name (DOT) Class (DOT)	: Ethanol : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120			

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Hazard labels (DOT)	: 3 - Flammable liquid
	FLAMMABLE LIQUID
Packing group (DOT)	: II - Medium Danger
DOT Special Provisions (49 CFR 172.102)	 in Interland Darger 24 - Alcoholic beverages containing more than 70 percent alcohol by volume must be transported as materials in Packing Group II. Alcoholic beverages containing more than 24 percent but not more than 70 percent alcohol by volume must be transported as materials in Packing Group III. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 4b;150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
Marine pollutant	: No
14.3. Additional information	
Other information	: No supplementary information available.
Overland transport	
Packing group (ADR)	
Class (ADR)	: 3 - Flammable liquid
Hazard identification number (Kemler No.)	: 33
Classification code (ADR) Hazard labels (ADR)	:F1 :3 - Flammable liquids
Orange plates	33 1170
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	11
EAC	: •2YE
Excepted quantities (ADR)	: E2
Transport by sea	· - · · · · · · · · · · · · · · · · · ·
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
MFAG-No	: 127
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	1 60 L

98%) 100 UG/ML IN ETHANOL DLM-10749-C

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

 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					
VITAMIN D3 (CHOLECALCIFEROL) CP 95% (26,26,26,27,27,27-D6, 98%) 100 UG/ML IN ETHANOL					
SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 30					
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard				
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313				
VITAMIN D3 (CHOLECALCIFEROL) CP 95%	(26,26,26,27,27,27-D6, 98%) (67-97-0 (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 Delayed (chronic) health hazard				
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.				
ETHANOL UNLABELED (64-17-5)					
SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ)					
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard 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

VITAMIN D3 (CHOLECALCIFEROL) CP 95% (26,26,26,27,27,27-D6, 98%) 100 UG/ML IN ETHANOL Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

VITAMIN D3 (CHOLECALC	IFEROL) CP 95% (26,26,26	,27,27,27-D6, 98%) 100 UG/ML	IN ETHANOL ()		
U.S California - Proposition	n 65 - Carcinogens List	No			
U.S California - Proposition Toxicity	n 65 - Developmental	No			
U.S California - Proposition Toxicity - Female	n 65 - Reproductive	No			
U.S California - Proposition 65 - Reproductive Toxicity - Male		No			
State or local regulations		U.S Massachusetts - Right To U.S Pennsylvania - RTK (Rigl U.S New Jersey - Right to Kn	ht to Know) List		
VITAMIN D3 (CHOLECALCIFEROL) CP 95% (26,26,26,27,27,27-D6, 98%) (67-97-0 (Unlabeled))					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	
No	No	No	No		

98%) 100 UG/ML IN ETHANOL DLM-10749-C

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ETHANOL UNLABELED (64-17-5)						
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)		
No	No	No	No			
VITAMIN D3 (CHOLECALC	VITAMIN D3 (CHOLECALCIFEROL) CP 95% (26,26,26,27,27,27-D6, 98%) (67-97-0 (Unlabeled))					
State or local regulations						
U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List						
ETHANOL UNLABELED (64-17-5)						
State or local regulations						
U.S Massachusetts - Right To Know List 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:

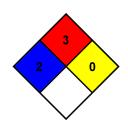
Acute Tox. 1 (Inhalation)	Acute toxicity (inhalation) Category 1
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Skin Irrit, 2	Skin corrosion/irritation Category 2
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H301	Toxic if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H330	Fatal if inhaled
H335	May cause respiratory irritation
H372	Causes damage to organs through prolonged or repeated exposure
R11	Highly flammable
R26	Very toxic by inhalation
R36/37/38	Irritating to eyes, respiratory system and skin
R48/24/25	Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed
F	Highly flammable
Т	Toxic
T+	Very toxic
Xi	Irritant

NFPA health hazard

NFPA fire hazard

NFPA reactivity

- : 2 Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
- 3 Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
 0 Material that in themselves are normally stable, even
 - 0 Material that in themselves are normally stable, even under fire conditions.



VITAMIN D3 (CHOLECALCIFEROL) CP 95% (26,26,26,27,27,27-D6, 98%) 100 UG/ML IN ETHANOL DLM-10749-C

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Hazard Rating

Health Flammability Physical

- : 2 Moderate Hazard Temporary or minor injury may occur
- : 3 Serious Hazard
- : 0 Minimal Hazard

CIL 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