

SAFETY DATA SHEET

# Vitamin D3 99 +% extra pure, USP

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Trade name: Product no.: Other means of identification: Vitamin D3 99 +% extra pure, USP VIF34

Index No.: 603-180-00-4 EC No.: 200-673-2 CAS No.: 67-97-0

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

Relevant identified uses of the substance or mixture:Industrial purposes, Laboratory useUses advised against :None known.

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

Company and address:

Laboratoriumdiscounter Zandvoortstraat 75 1976BN Ijmuiden Netherlands Tel: +31 255 700 210 www.laboratoriumdiscounter.nl/en/ info@laboratoriumdiscounter.nl 23/02/2023

1.0

#### **1.4.** Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

# **SECTION 2: HAZARDS IDENTIFICATION**

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

Acute Tox. 2; H300, Fatal if swallowed. Acute Tox. 2; H310, Fatal in contact with skin. Acute Tox. 2; H330, Fatal if inhaled. STOT RE 1; H372, Causes damage to organs through prolonged or repeated exposure.

# 2.2. Label elements

E-mail:

Revision:

SDS Version:

Hazard pictogram(s):

Signal word: Hazard statement(s):



Danger Fatal if swallowed, in contact with skin or if inhaled. (H300+H310+H330)



	Causes damage to organs through prolonged or repeated exposure. (H372)
Safety statement(s):	
General:	If medical advice is needed, have product container or label at hand. (P101) Keep out of reach of children. (P102)
Prevention:	Use only outdoors or in a well-ventilated area. (P271) [In case of inadequate ventilation] wear respiratory protection. (P284)
Response:	IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304+P340) Immediately call a POISON CENTER/doctor. (P310)
Storage:	Store locked up. (P405)
Disposal:	Dispose of contents/container in accordance with local regulation. (P501)
Hazardous substances:	colecalciferol; cholecalciferol; Vitamin D3
Additional labelling:	Not applicable.
Other hazards	
Additional warnings:	This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB. The substance(s) shown below are considered to be endocrine disruptors according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. colecalciferol; cholecalciferol; Vitamin D3

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1. Substances

2.3.

Product/substance	Identifiers	% w/w	Classification	Note
colecalciferol; cholecalciferol; Vitamin D3	CAS No.: 67-97-0 EC No.: 200-673-2 UK-REACH: Index No.: 603-180-00-4	95-100%	Acute Tox. 2, H300 Acute Tox. 2, H310 Acute Tox. 2, H330 STOT RE 1, H372 (SCL: 3.00 %)	[4]
			STOT RE 2, H373 (SCL: 0.30 %)	

# 3.2. Mixtures

Not applicable. This product is a substance.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if



these are available.

#### Other information

[4] Substance is listed in Annex I of the Prior Informed Consent Regulation (PIC, Regulation (EU) 649/2012).

# **SECTION 4: FIRST AID MEASURES**

4.1.	Description of first aid measures			
	General information:	In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.		
	Inhalation:	Upon breathing difficulties or irritation of the respiratory tract: Bring the injured person into fresh air. Make sure the injured person is continuously monitored. Prevent shock by keeping the injured person warm and calm. If breathing ceases, give mouth-to-mouth resuscitation. If unconscious, roll the injured person into recovery position. Call an ambulance.		
	Skin contact:	Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.		
	Eye contact:	Upon irritation of the eye: Remove contact lenses and open eyes widely. Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Seek medical assistance and continue flushing during transport.		
	Ingestion:	In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit returning mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.		
	Burns:	Not applicable.		
4.2.	Most important symptoms and effects, both None known.	n acute and delayed		



# **4.3.** Indication of any immediate medical attention and special treatment needed IF exposed or concerned:

Get immediate medical advice/attention. Information to medics:

Bring this safety data sheet or the label from this product.

# SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist. Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

**5.2. Special hazards arising from the substance or mixture** Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice. Hazchem Code: 2X

# SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures** Avoid direct contact with spilled substances.

#### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

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

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Minor spills are collected with a cloth. Collection and disposal of the material shall be done with minimum creation of dust. Sweep and collect. Shall be contained in suitable and tightly closed disposal containers.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

#### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste. See section 8 "Exposure controls/personal protection" for protective measures.

#### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Avoid direct contact with the product. Smoking, drinking and consumption of food is not allowed in the work area. See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Recommended storage material:

Keep only in original packaging.



Storage temperature:

*Incompatible materials:* 

Room temperature 15 to 25°C Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

# 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

#### DNEL

No data available.

# PNEC

No data available.

#### 8.2. Exposure controls

Control is unnecessary if the product is used as intended.

General recommendations:	Smoking, drinking and consumption of food is not allowed in the work area.
Exposure scenarios:	There are no exposure scenarios implemented for this product.
Exposure limits:	Occupational exposure limits have not been defined for the substances in this product.
Appropriate technical measures:	Apply standard precautions during use of the product. Avoid inhalation of gas or dust.
Hygiene measures:	In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.
Measures to avoid environmental exposure:	Keep damming materials near the workplace. If possible, collect spillage during work.

#### 8.3. Individual protection measures, such as personal protective equipment

Generally:

Use only UKCA marked protective equipment.

**Respiratory Equipment:** 

Туре	Class	Colour	Standards	
SL	P3	White	EN149	

#### Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	R

Hand protection:



Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0,2	> 480	EN374-2, EN374-3, EN388	

#### *Eye protection:*

Туре	Standards	
Safety glasses with side shields.	EN166	$\bigcirc$

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1. Information on basic physical and chemical properties

	Physical state:	Crystalline
	Colour:	White
	Odour / Odour threshold:	None
	pH:	Testing not relevant or not possible due to the nature of the product.
	Density (g/cm³):	Testing not relevant or not possible due to the nature of the product.
	Kinematic viscosity:	Does not apply to solids.
	Particle characteristics:	Testing not relevant or not possible due to the nature of the product.
Phase	e changes	
	Melting point/Freezing point (°C):	83 – 86 °C
	Softening point/range (waxes and pastes) (°C):	Does not apply to solids.
	Boiling point (°C):	Does not apply to solids.
	Vapour pressure:	Testing not relevant or not possible due to the nature of the product.
	Relative vapour density:	Does not apply to solids.
	Decomposition temperature (°C):	Testing not relevant or not possible due to the nature of the product.
Data	on fire and explosion hazards	
	Flash point (°C):	this material is flammable, but will not catch fire easily
	Flammability (°C):	Testing not relevant or not possible due to the nature of the product.
	Auto-ignition temperature (°C):	Testing not relevant or not possible due to the nature of the product.
	Lower and upper explosion limit (% v/v):	Does not apply to solids.
Solub	ility	
	Solubility in water:	Testing not relevant or not possible due to



*n-octanol/water coefficient:* 

Solubility in fat (g/L):

#### 9.2. Other information

Other physical and chemical parameters:

#### **SECTION 10: STABILITY AND REACTIVITY**

- **10.1. Reactivity** No data available.
- **10.2.** Chemical stability The product is stable under the conditions, noted in section 7 "Handling and storage".
- **10.3.** Possibility of hazardous reactions None known.
- **10.4.** Conditions to avoid None known.
- **10.5. Incompatible materials** Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.
- **10.6.** Hazardous decomposition products The product is not degraded when used as specified in section 1.

#### SECTION 11: TOXICOLOGICAL INFORMATION

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

#### **Acute toxicity**

Fatal if swallowed. Fatal in contact with skin. Fatal if inhaled.

#### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

#### Serious eye damage/irritation

Based on available data, the classification criteria are not met.

#### **Respiratory sensitisation**

Based on available data, the classification criteria are not met.

#### Skin sensitisation

Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### **Reproductive toxicity**

Based on available data, the classification criteria are not met.

No data available.

the nature of the product.

the nature of the product.

the nature of the product.

Testing not relevant or not possible due to

Testing not relevant or not possible due to



#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### **11.2.** Information on other hazards

# Long term effects

None known.

#### **Endocrine disrupting properties**

colecalciferol; cholecalciferol; Vitamin D3 is identified as endocrine disruptor by EU (List I)

#### **Other information**

None known.

#### **SECTION 12: ECOLOGICAL INFORMATION**

- **12.1. Toxicity** No data available.
- **12.2.** Persistence and degradability No data available.
- **12.3. Bioaccumulative potential** No data available.
- **12.4.** Mobility in soil No data available.

# **12.5. Results of PBT and vPvB assessment** This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

- **12.6.** Endocrine disrupting properties colecalciferol; cholecalciferol; Vitamin D3 is identified as endocrine disruptor by EU (List I)
- **12.7.** Other adverse effects None known.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Product is covered by the regulations on hazardous waste. HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity HP 6 - Acute toxicity Dispose of contents/container to an approved waste disposal plant. Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

#### **EWC code**



Not applicable.

# Specific labelling

Not applicable.

#### **Contaminated packing**

Packaging containing residues of the product must be disposed of similarly to the product.

# SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	UN2811	TOXIC SOLID, ORGANIC, N.O.S.	Class: 6.1 Labels: 6.1 Classification code: T2	II	No	Limited quantities: 500 g Tunnel restriction code: (D/E) See below for additional information.
IMDG	UN2811	TOXIC SOLID, ORGANIC, N.O.S.	Class: 6.1 Labels: 6.1 Classification code: T2	II	No	Limited quantities: 500 g EmS: F-A S-A See below for additional information.
IATA	UN2811	TOXIC SOLID, ORGANIC, N.O.S.	Class: 6.1 Labels: 6.1 Classification code: T2	Ш	No	See below for additional information.

\* Packing group

\*\* Environmental hazards

#### Additional information

ADR / See Table A, Section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport. IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in

connection with transport. IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods. Hazchem Code: 2X

- **14.6.** Special precautions for user Not applicable.
- **14.7.** Maritime transport in bulk according to IMO instruments No data available.



# **SECTION 15: REGULATORY INFORMATION**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application:	People under the age of 18 shall not be exposed to this product. Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.
Demands for specific education:	No specific requirements.
SEVESO - Categories / dangerous substances:	H2 - ACUTE TOXIC, Qualifying quantity (lower- tier): 50 tonnes / (upper-tier): 200 tonnes
Additional information:	Tactile warning. If this product is sold in retail, it must be delivered with child-resistant fastening.
Sources:	The Management of Health and Safety at Work Regulations 1999. The Health and Safety at Work etc. Act 1974 Regulations 2013. Control of Major Accident Hazards (COMAH) Regulations 2015. Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals as retained and amended in UK law. Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law. Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

# **15.2.** Chemical safety assessment

No

# **SECTION 16: OTHER INFORMATION**

#### Full text of H-phrases as mentioned in section 3

- H300, Fatal if swallowed.
- H310, Fatal in contact with skin.
- H330, Fatal if inhaled.
- H372, Causes damage to organs through prolonged or repeated exposure.
- H373, May cause damage to organs through prolonged or repeated exposure.



#### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

#### Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

# The safety data sheet is validated by

Laboratoriumdiscounter

#### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.



Country-language: GB-en