

Trade name: Vitamin D3 100 GFP

Substance number: 781101

Version: 1 / CH

Date revised: 03.02.2025

Replaces Version: - / CH

Print date: 03.02.25

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Vitamin D3 100 GFP

Item No. 78110105

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

Use of the substance/preparation

Vitamin

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

The product does not require a hazard warning label in accordance with Regulation (EC) No 1272/2008.

Supplemental information

EUH210

Safety data sheet available on request.

2.3. Other hazards

The product contains substances that have endocrine disrupting properties with respect to humans. See SECTION 3 of this safety data sheet. The product contains substances that have endocrine disrupting properties with respect to non-target organisms. See SECTION 3 of this safety data sheet.

The product contains no PBT substances. The product contains no vPvB substances.

SECTION 3: Composition/information on ingredients

Hazardous ingredients

colecalfiferol

CAS No. 67-97-0

EINECS no. 200-673-2

Concentration >= 0.1 < 0.3 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 2 H300

Acute Tox. 2 H310

Acute Tox. 2 H330

STOT RE 1 H372

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Concentration limits (Regulation (EC) No. 1272/2008)

	STOT RE 1	H372	≥ 3 %	
	STOT RE 2	H373	≥ 0.3 < 3 %	
ATE	oral	35	mg/kg	
ATE	dermal	50	mg/kg	
cATpE	inhalative, Dust/Mist	0.05	mg/l	

Further ingredients**Starch**

CAS No.	9005-25-8				
EINECS no.	232-679-6				
Concentration	≥	25	<	50	%
Advice: [4]					

Note

[4] Voluntary information

Other information

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated clothing immediately and dispose of safely.

After inhalation

Remove to fresh air, keep patient warm and at rest.

After skin contact

Wash off immediately with soap and water and rinse well.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

After ingestion

Rinse out mouth and give plenty of water to drink.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / hazards**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Foam, Dry powder, Water spray jet

Non suitable extinguishing media

Full water jet

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5.2. Special hazards arising from the substance or mixture

Forms explosive mixture with air are possible.

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid dust formation.

6.2. Environmental precautions

Do not allow to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. Clean contaminated floors and objects thoroughly, observing environmental regulations.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Avoid the formation and deposition of dust. Provide exhaust ventilation if dust is formed.

Advice on protection against fire and explosion

Avoid dust formation. Take action to prevent static discharges. Keep away from sources of ignition. Use explosion-proof equipment/fittings and non-sparking tools.

7.2. Conditions for safe storage, including any incompatibilities**Recommended storage temperature**

Value < 25 °C

Requirements for storage rooms and vessels

Keep container tightly closed and dry.

Hints on storage assembly

Do not store together with foodstuffs.

Storage classes

Storage class according to TRGS 510

13

Non- combustible solids

Storage category (Switzerland)

NG

Other solid hazardous substances without classification/labelling hazardous

Further information on storage conditions

Protect from light.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limit values**

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List	SUVA	
Type	MAK	
Value	3	mg/m ³
Remarks:	Haut	

Other information

Contains no substances with occupational exposure limit values.

8.2. Exposure controls**General protective and hygiene measures**

Observe the usual precautions for handling chemicals.

Respiratory protection

Breathing apparatus in the event of aerosol. Particle filter P1; EN 143; FFP1 (EN 149)

Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material	nitrile rubber - NBR	
Material thickness	0.4	mm
Appropriate Material	Butyl rubber	
Material thickness	0.7	mm

Hand protection must comply with EN 374.

Eye protection

Safety glasses with side protection shield; Eye protection must comply with EN 166.

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	solid
Colour	white
Odour	odourless
Physical state	Powder
Melting point	
Remarks	not determined

Freezing point	
Remarks	not determined

Boiling point or initial boiling point and boiling range	
Remarks	not determined

Flammability	
	not determined

Upper and lower explosive limits	
Remarks	not determined

Flash point	
Value	°C
Remarks	Not applicable

Ignition temperature	
Remarks	not determined

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Decomposition temperature

Value	>=	155	°C
Method		DIN 51007	

pH value

Value	6	to	7
Concentration/H ₂ O	5	%	
Temperature	20	°C	
Remarks	Dispersion in water		

Viscosity

Remarks	not determined
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Solubility(ies)

Remarks	not determined
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Partition coefficient n-octanol/water (log value)

Remarks	not determined
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Vapour pressure

Remarks	Not relevant
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Density and/or relative density

Remarks	not determined
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Relative vapour density

Remarks	not determined
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9.2. Other information**Odour threshold**

Remarks	not determined
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Evaporation rate (ether = 1) :

Remarks	not determined
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Solubility in water

Remarks	not determined
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Explosive properties

evaluation	The product is capable of dust explosions.
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Oxidising properties

evaluation	Not oxidising
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Bulk density

Value	appr.	600	kg/m ³
Temperature		20	°C

SECTION 10: Stability and reactivity**10.1. Reactivity**

No dangerous reactions known.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Dust can form explosive mixtures with air.

10.4. Conditions to avoid

Stable under recommended storage and handling conditions (see section 7). Avoid dust formation.

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10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE	>	10'000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

Acute oral toxicity (Components)**colecalfiferol**

ATE	35	mg/kg
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Starch

LD50	>	2000	mg/kg
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Acute dermal toxicity

ATE	>	10'000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

Acute dermal toxicity (Components)**colecalfiferol**

ATE	50	mg/kg
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colecalfiferol

Species	rat	
LD50	61	mg/kg

Acute inhalational toxicity

ATE	16.6722	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute inhalative toxicity (Components)**colecalfiferol**

ATE	0.05	mg/l
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colecalfiferol

Species	rat	
LC50	appr. 0.14	mg/l
Duration of exposure	4	h

Skin corrosion/irritation

Remarks	not determined
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Skin corrosion/irritation (Components)**colecalfiferol**

evaluation	non-irritant
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Starch

evaluation	non-irritant
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Serious eye damage/irritation

Remarks	not determined
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Serious eye damage/irritation (Components)**colecalfiferol**

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evaluation slightly irritant

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evaluation irritant effect possible

Sensitization

Remarks not determined

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

Remarks not determined

Mutagenicity (Components)**colecalfiferol**

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

Reproductive toxicity

Remarks not determined

Reproduction toxicity (Components)**colecalfiferol**

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

Carcinogenicity

Remarks not determined

Carcinogenicity (Components)**colecalfiferol**

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

Specific Target Organ Toxicity (STOT) (Components)**colecalfiferol****Single exposure**

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

colecalfiferol**Repeated exposure**Route of exposure oral
Organs: Kidneys**colecalfiferol****Repeated exposure**Route of exposure oral
Organs: blood vessel**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

The product contains substances that have endocrine disrupting properties with respect to humans.

Other information

No toxicological data are available.

SECTION 12: Ecological information**12.1. Toxicity****General information**

not determined

Fish toxicity (Components)

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colecalfiferol

Species	zebra fish (<i>Brachydanio rerio</i>)	
LC50	> 100	mg/l
Method	OECD 203	
Remarks	The product is slightly soluble in the test medium. An aqueous dispersion was tested.	

Daphnia toxicity (Components)**colecalfiferol**

Species	Daphnia magna	
EC50	> 100	mg/l
Method	OECD 202	
Remarks	The product is slightly soluble in the test medium. An eluate was tested.	

Algae toxicity (Components)**colecalfiferol**

Species	Raphidocelis subcapitata	
EC50	> 100	mg/l
Method	OECD 201	
Remarks	The product is slightly soluble in the test medium. An eluate was tested.	
Source	BM000629 SDS BTC 20220301	

Bacteria toxicity (Components)**colecalfiferol**

Species	activated sludge	
EC20	> 1000	mg/l
Duration of exposure	0.5	h
Method	OECD 209	

12.2. Persistence and degradability**General information**

not determined

Biodegradability (Components)**colecalfiferol**

Value	< 10	%
Duration of test	28	d
Method	OECD 301F	

12.3. Bioaccumulative potential**General information**

not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

12.4. Mobility in soil**General information**

not determined

Mobility in soil (Components)**colecalfiferol**

Adsorbs on soil.

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

The product contains no PBT substances

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The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

The product contains substances that have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

General information

not determined

General information / ecology

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Disposal in compliance with local and national regulations.

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.

SECTION 15: Regulatory information

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

Water Hazard Class (Germany)

Water Hazard Class WGK 2

(Germany)

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 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.

CLP categories listed in Chapter 3

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Acute Tox. 2
STOT RE 1

Acute toxicity, Category 2
Specific target organ toxicity - repeated exposure, Category 1

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.