

Trade name: Dry Vitamin B12 0.1% GFP

Substance number: 781250

Version: 1 / CH

Date revised: 05.02.2024

Replaces Version: - / CH

Print date: 05.02.24

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

1.1. Product identifier

Dry Vitamin B12 0.1% GFP

Item No. 78125000

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

Voluntary product information following the Safety Data Sheet format

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.

2.3. Other hazards

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients

Further ingredients

Maltodextrin

CAS No. 9050-36-6

EINECS no. 232-940-4

Concentration >= 95 %

Advice: [4]

CAS No. 68-04-2

EINECS no. 200-675-3

Concentration >= 1 < 10 %

Advice: [4]

citric acid

CAS No. 77-92-9

EINECS no. 201-069-1

Registration no. 01-2119457026-42

Concentration < 1 %

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Advice: [4]

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

Eye Irrit. 2 H319

Cyanocobalamin

CAS No. 68-19-9

EINECS no. 200-680-0

Concentration < 1 %

Advice: [4]

Note

[4] Voluntary information

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

Wash contaminated clothing before re-use.

After inhalation

Remove the casualty into fresh air and keep him calm.

After skin contact

Wash off with soap and water.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.).

After ingestion

Rinse out mouth and give plenty of water to drink.

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

Symptomatic treatment (decontamination, vital functions), no specific antidote known.

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

Water spray jet, Carbon dioxide, Dry powder, Foam

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixtureIn the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); smoke**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

Other information

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

For small amounts: take up with appropriate instrument and dispose. For tall amounts: Take up mechanically and collect in suitable container for disposal. Avoid raising dust.

6.4. Reference to other sections

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

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

Avoid dust formation. Provide exhaust ventilation if dust is formed.

Advice on protection against fire and explosion

The product is capable of dust explosions. Avoid dust formation. Take action to prevent static discharges. Keep away from sources of ignition. Procure extinguisher. Use explosion-proof equipment/fittings and non-sparking tools.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep tightly closed in a dry and cool place.

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from light.

SECTION 8: Exposure controls/personal protection**8.2. Exposure controls****General protective and hygiene measures**

General industrial hygiene practice. Observe the usual precautions for handling chemicals.

Respiratory protection

Breathing apparatus in the event of aerosol. Breathing apparatus in the event of vapours. Particle filter P1; Particle filter half mask, filter FFP2 - Norm DIN EN 149

Hand protection

Hand protection must comply with EN 374.

Eye protection

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

Body protection

Protective clothing

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	pink
Odour	slight, original odour
Flammability	
Not ignitable	
Method	UN Test N.1 (ready combustible solids)
Flash point	
Value	°C
Remarks	Not applicable
Decomposition temperature	
Value	>= 180 °C
Method	DIN 51007
Vapour pressure	
Remarks	Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Do not use a full water jet – danger of dust explosion !

10.4. Conditions to avoid

Protect from light.

10.5. Incompatible materials

Reactions with damp air.

10.6. Hazardous decomposition products

No hazardous decomposition products known when handled according to prescribed instructions.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity (Components)

citric acid

Species	mouse	
LD50	5400	mg/kg
Method	OECD 401	

Acute dermal toxicity (Components)

citric acid

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 402	

Skin corrosion/irritation (Components)

citric acid

Species	rabbit
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evaluation	non-irritant
Method	OECD 404

citric acid

Species	rabbit
Duration of exposure	72 h
evaluation	slightly irritant

Serious eye damage/irritation (Components)**citric acid**

evaluation	irritant
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citric acid

Species	rabbit
Duration of exposure	72 h
evaluation	strongly irritant

Sensitization (Components)**citric acid**

Remarks	None
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Subacute, subchronic, chronic toxicity (Components)**citric acid**

Route of exposure	oral
Species	rat
NOAEL	1200 mg/kg
Long term	
Duration of exposure	2 y
Remarks	negative on animals

Mutagenicity (Components)**citric acid**

Species	Salmonella typhimurium
evaluation	No experimental information on genotoxicity in vitro available.

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity (Components)****citric acid**

Species	golden orfe (Leuciscus idus)
LC50	440 760 mg/l

citric acid

Species	golden orfe (Leuciscus idus)
LC50	440 mg/l
Method	OECD 203

Daphnia toxicity (Components)**citric acid**

Species	Daphnia
EC50	120 mg/l
Duration of exposure	72 h

citric acid

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Species	Daphnia magna		
LC50	1535		mg/l
Duration of exposure	24	h	

Bacteria toxicity (Components)**Citric acid, anhydrous**

EC50	>	100000	mg/l
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12.2. Persistence and degradability**Biodegradability (Components)****citric acid**

Value	97		%
Duration of test evaluation	28	d	
Method	Readily biodegradable		
	OECD 301 B		

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

The Substance does not meet PBT-criteria.

This substance does not meet the vPvB-criteria.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

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 (Germany)	WGK 1
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Remarks	Derivation of WGK according to Annex 1 No. 5.2 AwSV
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SECTION 16: Other information**Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

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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.