

Trade name: Vitamin A- Propionate 2.5Mio IU/G BHT

Substance number: 068460

Version: 1 / CH

Date revised: 30.10.2023

Replaces Version: - / CH

Print date: 30.10.23

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

1.1. Product identifier

Vitamin A- Propionate 2.5Mio IU/G BHT

Item No. 06846000

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

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

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

Repr. 1B H360D

Aquatic Chronic 2 H411

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H360D May damage the unborn child.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medicinal advice/attention.

P391 Collect spillage.

P501.3 Disposal in compliance with local and national regulations.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

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contains Retinyl propionate

Supplemental information**Further supplemental information**

Restricted to professional users

Other information

Not for supply to the general public in Switzerland

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**Chemical characterization**

Vitamin A- Propionate 2.5Mio IU/G BHT

Hazardous ingredients**Retinyl propionate**

CAS No. 7069-42-3

EINECS no. 230-363-2

Concentration \geq 50 %

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

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Aquatic Chronic 4 H413

2,6-Di-tert-butyl-p-cresol

CAS No. 128-37-0

EINECS no. 204-881-4

Concentration \geq 2.5 < 10 %

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

Aquatic Chronic 1 H410

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

Aquatic Chronic M = 1

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

Adhere to personal protective measures when giving first aid. If the patient is likely to become unconscious, place and transport in stable sideways position. Remove contaminated clothing immediately and dispose of safely.

After inhalation

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water and rinse well. Take medical treatment.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). By continuous complaints consult a physician.

After ingestion

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Rinse mouth thoroughly with water. Drink water in small gulps. Take medical treatment.

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

Important or other important known symptoms and effects are described in the GHS labelling of the product (see section 2) and in section 11.

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, Foam, Dry powder, Carbon dioxide

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Avoid inhalation of smoke and vapours. In 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. Use personal protective clothing. Do not allow run-off from fire fighting to enter drains or water courses.

Other information

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Ensure adequate ventilation. Do not inhale vapours. Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. In case the product spills into sewage waters, immediately inform the authorities.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Prevent spread over a wide area (by containment with sand or earth). Pump off large amounts. Dispose of absorbed material in accordance with the regulations. Cleaning rags / adsorbents and silica gel can be self-igniting and must therefore be moistened with water and disposed of safely.

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

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Provide good ventilation of working area (local exhaust ventilation if necessary). Wear protective equipment. Avoid formation of aerosols. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Provide suitable exhaust ventilation at processing machines.

Advice on protection against fire and explosion

There is a risk of spontaneous combustion. Protect clothes, cleaning rags etc. which are contaminated with the product from auto-ignition (e.g. keep wet). Take action to prevent static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value	8	15	°C
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Requirements for storage rooms and vessels

Keep tightly closed in a dry and cool place. Protect from exposure to light. Store under nitrogen.

Hints on storage assembly

Do not store with oxidizing agents.

Storage classes

Storage class according to TRGS 510	6.1C	Combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects
Storage category (Switzerland)	6.1	Toxic substances

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

2,6-Di-tert-butyl-p-cresol

List	SUVA	
Type	MAK	
Value	10	mg/m ³
Short term exposure limit	40	mg/m ³
Pregnancy group: S; Remarks: SSc; KG, Leber		

Derived No/Minimal Effect Levels (DNEL/DMEL)

2,6-Di-tert-butyl-p-cresol

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	3.5	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0.5	mg/kg

Predicted No Effect Concentration (PNEC)

2,6-Di-tert-butyl-p-cresol

Type of value	PNEC	
Type	Freshwater	
Concentration	0.199	µg/l

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Type of value	PNEC		
Type	Saltwater		
Concentration	0.0199		µg/l
Type of value	PNEC		
Type	Water		
Conditions	Intermittend		
Concentration	1.99		µg/l
Type of value	PNEC		
Type	Sediment		
Concentration	0.0996		mg/kg
Type of value	PNEC		
Type	Marine sediment		
Concentration	0.0096		mg/kg
Type of value	PNEC		
Type	Soil		
Concentration	0.04769		mg/kg

8.2. Exposure controls

General protective and hygiene measures

It is essential for pregnant women to avoid inhaling the product and not to let it come in contact with the skin. At work do not eat, drink, smoke or take drugs. Wash hands and face after work. Store work clothing separately.

Respiratory protection

If vapours occur, use filter type A (= against vapours of organic compounds) according to EN 14387.

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

Breakthrough time > 480 min

Hand protection must comply with EN 374.

Appropriate Material Butyl rubber - Butyl

Material thickness 0.7 mm

Breakthrough time > 480 min

Hand protection must comply with EN 374.

Eye protection

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

Body protection

Personnel should wear protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	yellow
Odour	nut-like

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Melting point

Value < 20 °C

Flammability

Not relevant

Flash point

Value 161.0 °C

Method DIN EN 22719 / ISO 2719

Ignition temperature

Value 291 °C

Vapour pressure

Value < 1 hPa

Temperature 20 °C

Density and/or relative densityValue 0.94 g/cm³

Temperature 20 °C

9.2. Other information**Solubility in water**

Remarks Difficult to dissolve

Auto-ignition temperature

Value >= 165 °C

Explosive properties

evaluation The product is not liable to cause dust explosions.

Oxidising properties

evaluation Not oxidising

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

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

When finely distributed, self-ignition is possible.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong oxidising agents

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)****2,6-Di-tert-butyl-p-cresol**

Species Rats (male/female)

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LD50 > 6000 mg/kg
Method OECD 401

Retinyl propionate

Species Rats (male/female)
LD50 > 2000 mg/kg

Acute dermal toxicity (Components)**2,6-Di-tert-butyl-p-cresol**

Species Rats (male/female)
LD50 > 2000 mg/kg
Method OECD 402

Retinyl propionate

Remarks No data available.

Acute inhalative toxicity (Components)**2,6-Di-tert-butyl-p-cresol**

Remarks No data available.

Retinyl propionate

Remarks No data available.

Skin corrosion/irritation (Components)**2,6-Di-tert-butyl-p-cresol**

Species rabbit
Duration of exposure 4 h
evaluation non-irritant
Method OECD 404

Retinyl propionate

Remarks No data available.

Serious eye damage/irritation (Components)**2,6-Di-tert-butyl-p-cresol**

Species rabbit
evaluation non-irritant
Method OECD 405

Retinyl propionate

Species rabbit
evaluation non-irritant
Method OECD 405

Sensitization (Components)**2,6-Di-tert-butyl-p-cresol**

evaluation non-sensitizing
Method in vitro
Source ECHA

Retinyl propionate

Species guinea pig
evaluation non-sensitizing
Method OECD 406

Subacute, subchronic, chronic toxicity (Components)**2,6-Di-tert-butyl-p-cresol**

Remarks No data available

Mutagenicity (Components)**2,6-Di-tert-butyl-p-cresol**

Species Salmonella typhimurium
evaluation No mutagenicity in the Ames-test.

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Remarks negative

2,6-Di-tert-butyl-p-cresol
Route of exposure intraperitoneal
Species mouse
evaluation No mutagenicity in the micronucleus test.

2,6-Di-tert-butyl-p-cresol
Route of exposure oral
Species rat (male)
Remarks negative

Retinyl propionate
Species Salmonella typhimurium
evaluation No mutagenicity in the Ames-test.
Method OECD 471

Retinyl propionate
Route of exposure intraperitoneal
Species mouse
evaluation No mutagenicity in the micronucleus test.

Reproduction toxicity (Components)

2,6-Di-tert-butyl-p-cresol
Remarks No data available.

Retinyl propionate
evaluation May damage fertility or the unborn child.

Carcinogenicity (Components)

2,6-Di-tert-butyl-p-cresol
Remarks No evidence available on carcinogenicity.

Retinyl propionate
Remarks No data available.

Specific Target Organ Toxicity (STOT) (Components)

2,6-Di-tert-butyl-p-cresol
Remarks No data available.

Retinyl propionate
Remarks No data available.

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans****Vitamin A- Propionate 2.5Mio IU/G BHT**

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

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

2,6-Di-tert-butyl-p-cresol
Species Oryzias latipes
NOEC 0.053 mg/l
Duration of exposure 30 d
Method OECD 210

2,6-Di-tert-butyl-p-cresol
Species zebra fish (Brachydanio rerio)
LC50 >= 0.57 mg/l
Duration of exposure 96 h

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2,6-Di-tert-butyl-p-cresol

Species	Micropterus dolomieu
NOEC	> 23.8
Duration of exposure	70 d
Source	ECHA

Retinyl propionate

Species	golden orfe (Leuciscus idus)	
LC50	> 10000	mg/l
Duration of exposure	96 h	

Daphnia toxicity (Components)**2,6-Di-tert-butyl-p-cresol**

EC50	0.48	mg/l
Duration of exposure	48 h	
Method	OECD 202	

2,6-Di-tert-butyl-p-cresol

NOEC	0.15	mg/l
Duration of exposure	48 h	

2,6-Di-tert-butyl-p-cresol

Species	Daphnia magna	
EC50	0.48	mg/l
Duration of exposure	48 h	
Method	OECD 211	

2,6-Di-tert-butyl-p-cresol

Species	Daphnia magna	
EC50	0.096	mg/l
Duration of exposure	21 d	
Method	OECD 211	

Algae toxicity (Components)**2,6-Di-tert-butyl-p-cresol**

Species	Desmodesmus subspicatus	
ErC50	> 0.4	mg/l
Duration of exposure	72 h	
Method	Regulation (EC) No. 440/2008, Annex, C.3	

2,6-Di-tert-butyl-p-cresol

Species	Desmodesmus subspicatus	
EC10	0.4	mg/l
Duration of exposure	72 h	

2,6-Di-tert-butyl-p-cresol

ErC50	> 0.24	mg/l
Duration of exposure	72 h	
Method	OECD 201	

Bacteria toxicity (Components)**2,6-Di-tert-butyl-p-cresol**

EC50	1.7	mg/l
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2,6-Di-tert-butyl-p-cresol

Species	activated sludge	
EC50	> 10000	mg/l
Duration of exposure	3 h	
Method	OECD 209	

12.2. Persistence and degradability**Physico-chemical eliminability (Components)**

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2,6-Di-tert-butyl-p-cresol

Remarks No data available.

Biodegradability (Components)**2,6-Di-tert-butyl-p-cresol**

Value	<	10		%
Duration of test evaluation		20	d	
Method		not readily degradable OECD 301D		

Retinyl propionate

Value		40	to	50	%
Duration of test evaluation		28	d		
Method		not readily degradable OECD 301 B			

Ready degradability (Components)**2,6-Di-tert-butyl-p-cresol**

Remarks Not readily biodegradable.

12.3. Bioaccumulative potential**Octanol/water partition coefficient (log Pow) (Components)****2,6-Di-tert-butyl-p-cresol**

log Pow	5.1
Remarks	Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.

12.4. Mobility in soil**Mobility in soil (Components)****2,6-Di-tert-butyl-p-cresol**

The product is insoluble and sinks in water.

2,6-Di-tert-butyl-p-cresol

Adsorbs on soil.

2,6-Di-tert-butyl-p-cresol

Immobile

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment****Vitamin A- Propionate 2.5Mio IU/G BHT**

The Substance does not meet PBT-criteria.

Vitamin A- Propionate 2.5Mio IU/G BHT

This substance does not meet the vPvB-criteria.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment****Vitamin A- Propionate 2.5Mio IU/G BHT**

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

SECTION 13: Disposal considerations**SECTION 14: Transport information**

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	-		
14.1. UN number	3077	3077	3077
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,6-Di-tert-butyl-p-cresol)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,6-Di-tert-butyl-p-cresol)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,6-Di-tert-butyl-p-cresol)
14.3. Transport hazard class(es)	9	9	9
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 kg		
Transport category	3		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	 ENVIRONMENTALLY HAZARDOUS

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 2

Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

SECTION 16: Other information

Hazard statements listed in Chapter 3

H360D

May damage the unborn child.

H410

Very toxic to aquatic life with long lasting effects.

H411

Toxic to aquatic life with long lasting effects.

H413

May cause long lasting harmful effects to aquatic life.

CLP categories listed in Chapter 3

Aquatic Chronic 1

Hazardous to the aquatic environment, chronic, Category 1

Aquatic Chronic 2

Hazardous to the aquatic environment, chronic, Category 2

Aquatic Chronic 4

Hazardous to the aquatic environment, chronic, Category 4

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Repr. 1B

Reproductive toxicity, Category 1B

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.