

Trade name: Adeps marmottae conservatus

Substance number: 260250

Version: 2 / CH

Date revised: 06.02.2023

Replaces Version: 1 / CH

Print date: 06.02.23

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

1.1. Product identifier

Adeps marmottae conservatus

Item No. 26025000

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

Use of the substance/preparation

Active pharmaceutical substance, Manufacture of pharmaceutical products

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 ***

MARMOT OIL

CAS No. 225234-13-9

Concentration >= 95 %

Advice: [4]

Propane-1,2-diol

CAS No. 57-55-6

EINECS no. 200-338-0

Registration no. 01-2119456809-23

Concentration < 1 %

Advice: [4]

Trade name: Adeps marmottae conservatus

Substance number: 260250

Version: 2 / CH

Date revised: 06.02.2023

Replaces Version: 1 / CH

Print date: 06.02.23

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

CAS No. 128-37-0

EINECS no. 204-881-4

Concentration < 1 %
[4]

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

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

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

Aquatic Acute 1 M = 1

Aquatic Chronic 1 M = 1

1

6-O-palmitoylascorbic acid

CAS No. 137-66-6

EINECS no. 205-305-4

Concentration < 1 %
Advice: [4]

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

Eye Irrit. 2 H319

CAS No. 31566-31-1

EINECS no. 250-705-4

Concentration < 1 %
Advice: [4]

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

Acute Tox. 4 H302

Citric acid, anhydrous

CAS No. 77-92-9

EINECS no. 201-069-1

Concentration < 1 %
Advice: [4]

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

Eye Irrit. 2 H319

Note

[4] Voluntary information

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Remove the casualty into fresh air and keep him calm.

After skin contact

In general the product isn't skin irritating. Wash off with soap and water.

After eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

After ingestion

By continuous complaints consult a physician.

SECTION 5: Firefighting measures

Trade name: Adeps marmottae conservatus

Substance number: 260250

Version: 2 / CH

Date revised: 06.02.2023

Replaces Version: 1 / CH

Print date: 06.02.23

5.1. Extinguishing media**Suitable extinguishing media**

Carbon dioxide, Dry chemical extinguisher, Foam

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixtureCarbon monoxide (CO); Carbon dioxide (CO₂)**SECTION 6: Accidental release measures****6.3. Methods and material for containment and cleaning up**

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). Allow to set, pick up mechanically. High risk of slipping due to leakage/spillage of product.

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

Observe the usual precautions for handling chemicals.

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

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

Propane-1,2-diol

Type of value	Derived No Effect Level (DNEL)
Reference group	General Population

Trade name: Adeps marmottae conservatus

Substance number: 260250

Version: 2 / CH

Date revised: 06.02.2023

Replaces Version: 1 / CH

Print date: 06.02.23

Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	50	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Concentration	168	mg/m ³

Predicted No Effect Concentration (PNEC)**Citric acid, anhydrous**

Type of value	PNEC	
Type	Freshwater	
Concentration	0.44	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0.044	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	1000	mg/l
Type of value	PNEC	
Type	Sediment	
Concentration	34.6	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	3.46	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	33.1	mg/kg

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

Type of value	PNEC	
Type	Freshwater	
Concentration	0.199	µg/l
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	

Trade name: Adeps marmottae conservatus

Substance number: 260250

Version: 2 / CH

Date revised: 06.02.2023

Replaces Version: 1 / CH

Print date: 06.02.23

Type	Marine sediment	
Concentration	0.0096	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0.04769	mg/kg
Propane-1,2-diol		
Type of value	PNEC	
Type	Soil	
Concentration	50	mg/kg
Type of value	PNEC	
Type	Saltwater	
Concentration	26	mg/l

8.2. Exposure controls**Respiratory protection**

Not necessary.

Hand protection

Protective gloves

Eye protection

Not necessary.

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

Physical state	liquid
Colour	yellowish to brownish
Melting point	
Value	0 to 10 °C
Remarks	Information refers to the main component.
Flash point	
Value	290 °C
Remarks	Information refers to the main component.
Vapour pressure	
Remarks	Not applicable
Density and/or relative density	
Value	appr. 0.9 g/cm ³
Remarks	Relative Density according specification

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

None known

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

Trade name: Adeps marmottae conservatus

Substance number: 260250

Version: 2 / CH

Date revised: 06.02.2023

Replaces Version: 1 / CH

Print date: 06.02.23

10.4. Conditions to avoid

No hazardous reactions known.

10.5. Incompatible materials

No decomposition if stored and applied as directed.

10.6. Hazardous decomposition products

None known

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

Species	rat		
LD50		3000	mg/kg

6-O-palmitoylascorbic acid

Species	rat		
LD50	>	10000	mg/kg

6-O-palmitoylascorbic acid

Species	mouse		
LD50		25000	mg/kg
Species	rat		
LD50	>	5000	mg/kg

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

Species	Rats (male/female)		
LD50	>	6000	mg/kg
Method	OECD 401		

Propane-1,2-diol

Species	rat		
LD50		20000	mg/kg

Propane-1,2-diol

Species	rat		
LD50		6660	mg/kg
Remarks	intraperitoneal		

Propane-1,2-diol

Species	mouse		
LD50		9718	mg/kg
Remarks	intraperitoneal		

Acute dermal toxicity (Components)**Citric acid, anhydrous**

Remarks	No data available		
---------	-------------------	--	--

6-O-palmitoylascorbic acid

Species	guinea pig		
LD50	>	3000	mg/kg
Species	Human		
Duration of exposure	24	h	
Remarks	Based on available data, the classification criteria are not met.		

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

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

Trade name: Adeps marmottae conservatus

Substance number: 260250

Version: 2 / CH

Date revised: 06.02.2023

Replaces Version: 1 / CH

Print date: 06.02.23

Propane-1,2-diol

Species	rabbit	20800	mg/kg
---------	--------	-------	-------

Acute inhalative toxicity (Components)**Citric acid, anhydrous**

Remarks	Harmful by inhalation.
---------	------------------------

6-O-palmitoylascorbic acid

Remarks	No data available.
---------	--------------------

Species	Human
---------	-------

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

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

Remarks	No data available.
---------	--------------------

Propane-1,2-diol

Remarks	No data available.
---------	--------------------

Skin corrosion/irritation (Components)**Citric acid, anhydrous**

Species	rabbit
evaluation	slightly irritant
Method	OECD 404

6-O-palmitoylascorbic acid

Species	rabbit
evaluation	slightly irritant
Species	guinea pig
Remarks	No effect of irritation known.

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

evaluation	non-irritant
------------	--------------

Propane-1,2-diol

Duration of exposure	7	d
evaluation	slightly irritant	

Serious eye damage/irritation (Components)**Citric acid, anhydrous**

Species	rabbit
evaluation	irritant - risk of serious damage to eyes
Method	OECD 405

6-O-palmitoylascorbic acid

Species	rabbit
evaluation	non-irritant
Method	Draize method
Species	mammal, species unspecified
Remarks	slightly irritating (Eye)

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

Species	rabbit
evaluation	non-irritant

Propane-1,2-diol

Species	rabbit
evaluation	slightly irritant

Sensitization (Components)**Citric acid, anhydrous**

Remarks	No data available.
---------	--------------------

6-O-palmitoylascorbic acid

evaluation	non-sensitizing
------------	-----------------

Trade name: Adeps marmottae conservatus

Substance number: 260250

Version: 2 / CH

Date revised: 06.02.2023

Replaces Version: 1 / CH

Print date: 06.02.23

Remarks No sensitisation effect known.
Remarks No sensitisation effect known.

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

Species Human
evaluation non-sensitizing

Propane-1,2-diol

Remarks No data available.

Subacute, subchronic, chronic toxicity (Components)**6-O-palmitoylascorbic acid**

Remarks Not applicable
Remarks Not applicable

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

Remarks No data available

Propane-1,2-diol

Remarks No data available.

Mutagenicity (Components)**Citric acid, anhydrous**

evaluation No mutagenicity in the Ames-test.
Method in vitro
Remarks negative

6-O-palmitoylascorbic acid

Remarks negative
Remarks No data available.

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

evaluation No mutagenicity according to various in vitro tests.

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

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

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

Route of exposure oral
Species rat (male)
Remarks negative

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

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

Propane-1,2-diol

Remarks No data available.

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

Remarks Indications of toxic effects are available from reproduction studies in animals.

6-O-palmitoylascorbic acid

evaluation No negative effects
Species rat
Remarks Indications of toxic effects are available from reproduction studies in animals.

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

Remarks No data available.

Propane-1,2-diol

Trade name: Adeps marmottae conservatus

Substance number: 260250

Version: 2 / CH

Date revised: 06.02.2023

Replaces Version: 1 / CH

Print date: 06.02.23

Remarks No data available.

Carcinogenicity (Components)**Citric acid, anhydrous**

Remarks No data available.

6-O-palmitoylascorbic acid

Remarks negative

Species rat

Remarks negative

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

Remarks No evidence available on carcinogenicity.

Propane-1,2-diol

Remarks No data available.

Specific Target Organ Toxicity (STOT) (Components)**Citric acid, anhydrous**

Remarks Not applicable

6-O-palmitoylascorbic acid

Remarks Not applicable

Remarks Not applicable

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

Organs: Liver

Species rat

NOAEL 25 mg/kg

Duration of exposure 1 d

Method Value taken from the literature

Propane-1,2-diol

Remarks Not applicable

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, anhydrous**Species golden orfe (*Leuciscus idus*)

LC50 440 to 760 mg/l

Duration of exposure 96 h

6-O-palmitoylascorbic acidSpecies *Salmo gairdneri*

LC50 51 mg/l

Duration of exposure 96 h

Remarks No data available.

2,6-Di-tert-butyl-p-cresolSpecies *Oryzias latipes*

LC50 5.3 mg/l

Propane-1,2-diolSpecies Fathead minnow (*Pimephales promelas*)

NOEC 52930 mg/l

Duration of exposure 96 h

Trade name: Adeps marmottae conservatus

Substance number: 260250

Version: 2 / CH

Date revised: 06.02.2023

Replaces Version: 1 / CH

Print date: 06.02.23

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

EC5	485		mg/l
Source	Entosiphon sulcatum (Literaturwert)		

Citric acid, anhydrous

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

6-O-palmitoylascorbic acid

Remarks	No data available.		
Remarks	No data available.		

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

EC50	0.48		mg/l
Duration of exposure	48	h	
Method	OECD 201		

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

NOEC	0.15		mg/l
Duration of exposure	48	h	

Propane-1,2-diol

Species	Daphnia		
NOEC	13020		mg/l

Propane-1,2-diol

Species	Daphnia magna		
EC50	> 10000		mg/l
Duration of exposure	48	h	

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

Species	Scenedesmus quadricauda		
IC5	640		mg/l
Duration of exposure	7	d	

Citric acid, anhydrous

Species	Microcystis aeruginosa (blue alge)		
IC5	80		mg/l

6-O-palmitoylascorbic acid

Remarks	No data available.		
Remarks	No data available.		

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

EC50	> 0.4		mg/l
Duration of exposure	72	h	

Propane-1,2-diol

Remarks	No data available.		
---------	--------------------	--	--

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

EC5	> 10000		mg/l
Duration of exposure	16	h	

6-O-palmitoylascorbic acid

Remarks	No data available.		
Remarks	No data available.		

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

EC50	1.7		mg/l
------	-----	--	------

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

Trade name: Adeps marmottae conservatus

Substance number: 260250

Version: 2 / CH

Date revised: 06.02.2023

Replaces Version: 1 / CH

Print date: 06.02.23

EC0	500	mg/l
Duration of exposure	30 min	

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

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

Propane-1,2-diol

Remarks No data available.

12.2. Persistence and degradability**Physico-chemical eliminability (Components)****Citric acid, anhydrous**

Remarks No data available.

6-O-palmitoylascorbic acid

Remarks No data available.

Remarks No data available.

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

Remarks No data available.

Propane-1,2-diol

Remarks No data available.

Biodegradability (Components)**Citric acid, anhydrous**

Value	98	%
Duration of test evaluation	2 d	
	Readily eliminable from water	

6-O-palmitoylascorbic acid

Value	48	%
Duration of test evaluation	28 d	
	not readily degradable	
Method	OECD 302B/ISO 9888/EEC 88/302,C	
Remarks	No data available.	

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

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

Propane-1,2-diol

Remarks No data available.

Ready degradability (Components)**Citric acid, anhydrous**

Value	98	%
Duration of test	2 d	
Method	OECD 302B/ISO 9888/EEC 88/302,C	

6-O-palmitoylascorbic acid

Method	OECD 302B/ISO 9888/EEC 88/302,C
Remarks	Not readily biodegradable.
Remarks	No data available.

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

Remarks Not readily biodegradable.

Propane-1,2-diol

Remarks No data available.

Trade name: Adeps marmottae conservatus

Substance number: 260250

Version: 2 / CH

Date revised: 06.02.2023

Replaces Version: 1 / CH

Print date: 06.02.23

Chemical oxygen demand (COD) (Components)**Citric acid, anhydrous**

Value	728	mg/g
-------	-----	------

Biochemical oxygen demand (BOD5) (Components)**Citric acid, anhydrous**

Value	526	mg/g
Duration of test	5	d

12.3. Bioaccumulative potential**Octanol/water partition coefficient (log Pow) (Components)****Citric acid, anhydrous**

log Pow	-1.72	
Temperature	20	°C

6-O-palmitoylascorbic acid

log Pow	6.0	
Method	calculated	

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 *****

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**

May be reused after working up the product.

Disposal recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

SECTION 14: Transport information

Trade name: Adeps marmottae conservatus

Substance number: 260250

Version: 2 / CH

Date revised: 06.02.2023

Replaces Version: 1 / CH

Print date: 06.02.23

	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) Not water hazardous

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

SECTION 16: Other information

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.