

Trade name: Bardanae oleum coctum

Substance number: 263121

Version: 3 / CH

Date revised: 06.02.2023

Replaces Version: 2 / CH

Print date: 06.02.23

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

1.1. Product identifier

Bardanae oleum coctum

Item No. 26312100

Substance / product identification

INCI ARCTIUM LAPPA ROOT EXTRACT

CAS-No. 84012-13-5

EINECS-No. 281-658-8

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

Use of the substance/preparation

Pharmaceutical excipient, Manufacture of cosmetics

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

No special hazards have to be mentioned.

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 ***

plant extract

Further ingredients ***

Arachis hypogaea oil

CAS No. 8002-03-7

EINECS no. 232-296-4

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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]

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

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

Other information

The product is an article within the meaning of Article 3 No. 3 of the REACH Regulation and thus not to be labelled according to the CLP regulation. The compilation of the Safety Data sheet is not required according to Article 31 REACH Regulation for articles and is done on a voluntary basis.

SECTION 4: First aid measures

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4.1. Description of first aid measures

General information

No special measures necessary.

After inhalation

No special measures required.

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 the eyes, rinse immediately for at least 15 minutes with plenty of water. In case of irritation consult an oculist.

After ingestion

No special measures required. In the event of symptoms take medical treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry chemical extinguisher, Foam, Carbon dioxide

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); smoke; Avoid inhalation of smoke and vapours.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use personal protective clothing. In case of combustion use a suitable breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Remove persons to safety. Keep away sources of ignition. High risk of slipping due to leakage/spillage of product.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. In case the product spills into sewage waters, immediately inform the authorities.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. Send in suitable containers for recovery or disposal. Clean contaminated surfaces thoroughly with water.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on protection against fire and explosion

Containers in danger should be cooled with water. Danger of inflammation when welding on empty

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containers.

7.2. Conditions for safe storage, including any incompatibilities

Storage classes

Storage class according to TRGS 510 10 Flammable liquids

Further information on storage conditions

Do not keep at temperatures above 25 °C. Keep away from sources of ignition. Protect from heat.
Protect from light.

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	
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)	

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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	
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**General protective and hygiene measures**

Observe the usual precautions for handling chemicals. Avoid any contact with the body.

Respiratory protection

Not necessary.

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Hand protection

Gloves (oil-resistant)

Eye protection

Tightly fitting safety glasses

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**

liquid

Colour

slightly yellowish

Boiling point or initial boiling point and boiling range

Value > 300 °C

Remarks Information refers to the main component.

Flash point

Value > 200 °C

Remarks Information refers to the main component.

Decomposition temperature

Remarks Stable at ambient temperature.

Remarks To avoid thermal decomposition, do not overheat.

Density and/or relative density

Value 0.910 to 0.935 g/ml

Remarks Relative Density according specification

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

No decomposition if stored and applied as directed.

10.4. Conditions to avoid

No decomposition if stored and applied as directed. Keep away from sources of heat and ignition. Protect from light and atmospheric moisture.

10.5. Incompatible materials

Strong oxidising agents, chlorine liquide, concentrated oxigen

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, anhydrous**

Species

rat

LD50

3000

mg/kg

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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
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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		

Propane-1,2-diol

Species	rabbit		
		20800	mg/kg

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

Remarks	Harmful by inhalation.
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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.
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Propane-1,2-diol

Remarks	No data available.
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Skin corrosion/irritation (Components)

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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
 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.

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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

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**

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Remarks Not applicable

6-O-palmitoylascorbic acid

Remarks Not applicable

Remarks Not applicable

2,6-Di-tert-butyl-p-cresolOrgans: 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.

Other information

By appropriate use of the product no health damage is known.

No toxicological data are available.

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 acid**Species *Salmo gairdneri*
LC50 51 mg/l
Duration of exposure 96 h
Remarks No data available.**2,6-Di-tert-butyl-p-cresol**Species *Oryzias latipes*
LC50 5.3 mg/l**Propane-1,2-diol**Species Fathead minnow (*Pimephales promelas*)
NOEC 52930 mg/l
Duration of exposure 96 h**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

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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	

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

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

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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 2 d

evaluation Readily eliminable from water

6-O-palmitoylascorbic acid

Value 48 %

Duration of test 28 d

evaluation 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 20 d

evaluation 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.

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

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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.

12.7. Other adverse effects**General information / ecology**

Ecological data are not available.

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

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

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)	Not water hazardous
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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.