

Trade name: Arnicae oleum coctum

Substance number: 263061

Version: 3 / CH

Date revised: 13.05.2024

Replaces Version: 2 / CH

Print date: 13.05.24

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

### **1.1. Product identifier**

Arnicae oleum coctum

Item No. 26306100

### **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**

vegetable oil

plant extract

### **Further ingredients**

#### **Arachis hypogaea oil**

CAS No. 8002-03-7

EINECS no. 232-296-4

Concentration &gt;= 95 %

Advice: [4]

#### **Propane-1,2-diol**

CAS No. 57-55-6

EINECS no. 200-338-0

Registration no. 01-2119456809-23

Concentration &lt; 1 %

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Advice: [4]

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

CAS No. 128-37-0

EINECS no. 204-881-4

Concentration &lt; 1 %

[4]

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

Aquatic Chronic 1 H410

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

Aquatic Chronic M = 1  
1**6-O-palmitoylascorbic acid**

CAS No. 137-66-6

EINECS no. 205-305-4

Concentration &lt; 1 %

Advice: [4]

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

Eye Irrit. 2 H319

**Stearic acid, monoester with glycerol**

CAS No. 31566-31-1

EINECS no. 250-705-4

Concentration &lt; 1 %

Advice: [4]

**Citric acid, anhydrous**

CAS No. 77-92-9

EINECS no. 201-069-1

Concentration &lt; 1 %

Advice: [4]

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

Eye Irrit. 2 H319

**Note**

[4] Voluntary information

**Other information**

This product is a preparation in sense of Paragraph 3 of the Act of Chemicals, and need not to be marked therefore in accordance with Directive 67/548/EEC

**SECTION 4: First aid measures****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

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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 (CO<sub>2</sub>); 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 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**

Keep container tightly closed. Protect from light.

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

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**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 <sup>3</sup>

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 <sup>3</sup>

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	168	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	10	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	10	mg/m <sup>3</sup>

**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

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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	
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
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	20000	mg/l
Type of value	PNEC	

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Type	Freshwater	
Concentration	260	mg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	57.2	mg/kg
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	572	mg/kg

## 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.

### 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, oily

**Colour** yellow

### 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/cm<sup>3</sup>

Temperature 20 °C

### 9.2. Other information

#### Solubility in water

Remarks insoluble

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No decomposition if stored and applied as directed.

### 10.2. Chemical stability

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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 oxygen

**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

**6-O-palmitoylascorbic acid**

Species	rat		
LD50	>	10000	mg/kg

**6-O-palmitoylascorbic acid**

Species	mouse		
LD50		25000	mg/kg

**Stearic acid, monoester with glycerol**

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		22000	mg/kg
Method	OECD 401		

**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

**Stearic acid, monoester with glycerol**

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**

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Species	rabbit	
LD50	> 2000	mg/kg
Duration of exposure	24	h
Method	OECD 402	

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

Remarks	Harmful by inhalation.
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**6-O-palmitoylascorbic acid**

Remarks	No data available.
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**Stearic acid, monoester with glycerol**

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**

Species	rabbit	
LC50	317042	mg/m <sup>3</sup>
Duration of exposure	2	h
Method	OECD 403	

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

Species	rabbit
evaluation	slightly irritant
Method	OECD 404

**6-O-palmitoylascorbic acid**

Species	rabbit
evaluation	slightly irritant

**Stearic acid, monoester with glycerol**

Species	guinea pig
Remarks	No effect of irritation known.

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

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

**Propane-1,2-diol**

evaluation	irritant effect possible
Method	OECD 404

**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	irritant
Method	Draize method

**Stearic acid, monoester with glycerol**

Species	mammal, species unspecified
Remarks	slightly irritating (Eye)

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



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Species evaluation  
Method

rabbit  
non-irritant  
OECD 405

**Propane-1,2-diol**

evaluation  
Method

irritant effect possible  
OECD 405

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

Remarks

No data available.

**6-O-palmitoylascorbic acid**

evaluation  
Remarks

non-sensitizing  
No sensitisation effect known.

**Stearic acid, monoester with glycerol**

Remarks

No sensitisation effect known.

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

evaluation  
Method  
Source

non-sensitizing  
in vitro  
ECHA

**Propane-1,2-diol**

Remarks

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

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

Remarks

Not applicable

**Stearic acid, monoester with glycerol**

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  
Method  
Remarks

No mutagenicity in the Ames-test.  
in vitro  
negative

**6-O-palmitoylascorbic acid**

Remarks

negative

**Stearic acid, monoester with glycerol**

Remarks

No data available.

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

Species evaluation  
Remarks

Salmonella typhimurium  
No mutagenicity in the Ames-test.  
negative

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

Route of exposure  
Species  
evaluation

intraperitoneal  
mouse  
No mutagenicity in the micronucleus test.

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

Route of exposure  
Species  
Remarks

oral  
rat (male)  
negative

**Propane-1,2-diol**

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

**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

**Stearic acid, monoester with glycerol**

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

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

Remarks No data available.

**6-O-palmitoylascorbic acid**

Remarks negative

**Stearic acid, monoester with glycerol**

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

**Stearic acid, monoester with glycerol**

Remarks Not applicable

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

Remarks No data available.

**Propane-1,2-diol**

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

**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)**

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**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

**Stearic acid, monoester with glycerol**

Remarks No data available.

**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  $\geq$  0.57 mg/l  
 Duration of exposure 96 h

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

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

**Propane-1,2-diol**

Species rainbow trout (*Oncorhynchus mykiss*)  
 LC50 40613 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.

**Stearic acid, monoester with glycerol**

Remarks No data available.

**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

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

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

**Propane-1,2-diol**

Species	Ceriodaphnia dubia	
LC50	18340	mg/l
Duration of exposure	48	h
Method	static test	
Source	EPA 600/489/001	

**Propane-1,2-diol**

Species	Ceriodaphnia dubia	
NOEC	13020	mg/l
Duration of exposure	7	d
Method	US-EPA	

**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.
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**Stearic acid, monoester with glycerol**

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

Species	Desmodemus 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	Desmodemus 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	

**Propane-1,2-diol**

Species	Raphidocelis subcapitata	
EC50	19000	mg/l
Duration of exposure	96	h
Method	OECD 201	

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

EC5	> 10000	mg/l
Duration of exposure	16	h

**6-O-palmitoylascorbic acid**

Remarks	No data available.
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**Stearic acid, monoester with glycerol**

Remarks No data available.

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

EC50 1.7 mg/l

**2,6-Di-tert-butyl-p-cresol**Species activated sludge  
EC50 > 10000 mg/l

Duration of exposure 3 h

Method OECD 209

**Propane-1,2-diol**Species Pseudomonas putida  
NOEC > 20000 mg/l

Duration of exposure 18 h

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

Remarks No data available.

**6-O-palmitoylascorbic acid**

Remarks No data available.

**Stearic acid, monoester with glycerol**

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**Stearic acid, monoester with glycerol**

Remarks No data available.

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

Value &lt; 10 %

Duration of test 20 d  
evaluation not readily degradable  
Method OECD 301D**Propane-1,2-diol**

Remarks The product is biodegradable.

**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**

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Method OECD 302B/ISO 9888/EEC 88/302,C  
Remarks Not readily biodegradable.

**Stearic acid, monoester with glycerol**

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  
Temperature 20 °C

**6-O-palmitoylascorbic acid**

log Pow 6.0  
Method calculated

**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**

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.

Trade name: Arnicae oleum coctum

Substance number: 263061

Version: 3 / CH

Date revised: 13.05.2024

Replaces Version: 2 / CH

Print date: 13.05.24

**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

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.