

Trade name: Geranii africanum aetheroleum

Substance number: 014600

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 16.05.19

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

1.1. Product identifier

Geranii africanum aetheroleum

Item No. 01460000

Substance / product identification

CAS-No. 8000-46-2

INCI Pelargonium Graveolens Flower Oil

REACH Registry No. 05-2114136557-45

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)

Skin Irrit. 2 H315

Skin Sens. 1 H317

Eye Dam. 1 H318

Aquatic Chronic 3 H412

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

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

Trade name: Geranii africanum aetheroleum

Substance number: 014600

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 16.05.19

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.
P501.3	Disposal in compliance with local and national regulations.

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

contains	Geraniol; citronellol; 3,7-Dimethyl-1,6-octadien-3-ol; beta-Pinene, not specified; Citral; Eugenol; (R)-p-mentha-1,8-diene; isomenthone
----------	---

SECTION 3: Composition/information on ingredients**Hazardous ingredients****citronellol**

CAS No.	106-22-9
EINECS no.	203-375-0
Concentration	>= 25 < 50 %
Classification (Regulation (EC) No. 1272/2008)	
	Skin Irrit. 2 H315
	Skin Sens. 1B H317
	Eye Irrit. 2 H319

Geraniol

CAS No.	106-24-1
EINECS no.	203-377-1
Concentration	>= 10 < 25 %
Classification (Regulation (EC) No. 1272/2008)	
	Skin Irrit. 2 H315
	Skin Sens. 1 H317
	Eye Dam. 1 H318

isomenthone

CAS No.	491-07-6
EINECS no.	207-727-4
Concentration	>= 1 < 10 %
Classification (Regulation (EC) No. 1272/2008)	
	Skin Irrit. 2 H315
	Skin Sens. 1 H317

3,7-Dimethyl-1,6-octadien-3-ol

CAS No.	78-70-6
EINECS no.	201-134-4
Concentration	>= 1 < 10 %
Classification (Regulation (EC) No. 1272/2008)	
	Skin Irrit. 2 H315
	Eye Irrit. 2 H319
	Skin Sens. 1B H317

Citral

CAS No.	5392-40-5
EINECS no.	226-394-6
Concentration	>= 1 < 10 %

Trade name: Geranii africanum aetheroleum

Substance number: 014600

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 16.05.19

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

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317

beta-Pinene, not specified

CAS No. 127-91-3

EINECS no. 204-872-5

Concentration >= 1 < 10 %

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

Flam. Liq. 3	H226
Asp. Tox. 1	H304
Skin Sens. 1	H317
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

(R)-p-mentha-1,8-diene

CAS No. 5989-27-5

EINECS no. 227-813-5

Concentration < 1 %

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

Flam. Liq. 3	H226
Asp. Tox. 1	H304
Skin Irrit. 2	H315
Skin Sens. 1	H317
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

CLP Regulation (EC) No 1272/2008, Annex VI, Note C

DSD Directive 67/548/EEC, Annex I, Note C

Eugenol

CAS No. 97-53-0

EINECS no. 202-589-1

Concentration < 1 %

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

Skin Sens. 1B	H317
Eye Irrit. 2	H319

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

Wash off immediately with soap and water and rinse well.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

Trade name: Geranii africanum aetheroleum

Substance number: 014600

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 16.05.19

After ingestion

Summon a doctor immediately.

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

Carbon dioxide, Dry chemical extinguisher, Foam

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO)

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapours. Avoid contact with eyes and skin. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Ensure adequate ventilation. Pick up with absorbent material (e.g. sand). When picked up, treat material as prescribed under Section 13 "Disposal".

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

Isolate from sources of heat, sparks and open flame. Smoking, eating and drinking should be prohibited in application area. Wear protective equipment. Ensure adequate ventilation.

Advice on protection against fire and explosion

Take action to prevent static discharges. Keep away from sources of ignition - No smoking.

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

Keep in a cool place.

Storage classes

Storage class according to TRGS 510	10	Flammable liquids
Storage category (Switzerland)	8	Caustic and corrosive substances

Further information on storage conditions

Keep container in a well-ventilated place. Keep container tightly closed. No smoking. Store only in the open air or in explosion-proof rooms.

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

Trade name: Geranii africanum aetheroleum

Substance number: 014600

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 16.05.19

(R)-p-mentha-1,8-diene

List	SUVA			
Type	MAK			
Value	40	mg/m ³	7	ppm(V)
Short term exposure limit	80	mg/m ³	14	ppm(V)
Pregnancy group: S; Status: 2017; Remarks: S SSc; LeberKT AN				

8.2. Exposure controls**Respiratory protection**

Provide good ventilation of working area (local exhaust ventilation if necessary). Breathing apparatus in the event of vapours.

Hand protection

Protective gloves

Eye protection

Safety glasses; Face shield

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

Form	liquid, clear
Colour	light yellow to yellow-brown
Odour	flowery
Colour	yellowish to brownish
Odour	pleasant
pH value	
Remarks	not determined
Flash point	
Value	64 °C
Density	
Value	0.8830 to 0.9050
Remarks	Relative Density according specification
Solubility in water	
Remarks	not determined

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

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Reactions with strong acids and alkalis. Reactions with oxidising agents.

10.6. Hazardous decomposition products

In the event of fire the following can be released: Carbon monoxide

Trade name: Geranii africanum aetheroleum

Substance number: 014600

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 16.05.19

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

ATE	>	10'000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

Acute oral toxicity (Components)

Geraniol

Species	rat		
LD50		3600	mg/kg

citronellol

Species	rat		
LD50		3450	mg/kg

Eugenol

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 423		

Eugenol

Species	rat		
LDLo		800	mg/kg
Remarks	intraperitoneal		

(R)-p-mentha-1,8-diene

Species	rat		
LD50		4400	mg/kg

(R)-p-mentha-1,8-diene

Species	mouse		
NOAEL		1650	mg/kg

(R)-p-mentha-1,8-diene

Species	mouse		
LOAEL		3300	mg/kg

Citral

Species	Rats (male/female)		
LD50		6800	mg/kg

Citral

Species	rat (female)		
LOAEL		335	mg/kg

Citral

Species	rat (male)		
LOAEL		345	mg/kg

Acute dermal toxicity (Components)

Geraniol

Species	rabbit		
	>	5000	mg/kg

citronellol

Species	rabbit		
LD50		2650	mg/kg

(R)-p-mentha-1,8-diene

Species	rabbit		
LD50	>	5000	mg/kg

Citral

Trade name: Geranii africanum aetheroleum

Substance number: 014600

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 16.05.19

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

Acute inhalative toxicity (Components)**Eugenol**

Species	rat		
LD	>	2580	mg/m ³
Duration of exposure		4	h

Skin corrosion/irritation

Remarks	Irritating to skin.
---------	---------------------

Serious eye damage/irritation

Remarks	Risk of serious damage to eyes.
---------	---------------------------------

Sensitization

Remarks	May cause allergic skin reactions.
---------	------------------------------------

Sensitization (Components)**citronellol**

Species	mouse		
evaluation	sensitizing		
Remarks	May cause sensitization by skin contact.		

(R)-p-mentha-1,8-diene

Species	mouse		
evaluation	sensitizing		
Method	OECD 429		
Remarks	May cause sensitization by skin contact.		

Citral

Species	mouse		
evaluation	sensitizing		
Method	OECD 429		

Mutagenicity (Components)**Citral**

Species	hamster		
evaluation	No experimental information on genotoxicity in vitro available.		
Remarks	negative		

Citral

Species	mouse		
Remarks	negative		

Carcinogenicity (Components)**Eugenol**

Species	mouse		
evaluation	Essential points have been found for a possible cancer causing effects in the experiment on test animals.		
Remarks	Based on available data, the classification criteria are not met.		
Source	RTECS		

Aspiration hazard

Harmful: may cause lung damage if swallowed.
--

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

Trade name: Geranii africanum aetheroleum

Substance number: 014600

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 16.05.19

LC50	Medi	3.45		mg/l
	an			

Duration of exposure		96	h	
----------------------	--	----	---	--

citronellol

Species	golden orfe (Leuciscus idus)			
LC50	10	to	22	mg/l
Duration of exposure	96	h		

Eugenol

Species	zebra fish (Brachydanio rerio)			
LC50	13			mg/l
Duration of exposure	96	h		
Method	OECD 203			

(R)-p-mentha-1,8-diene

Species	Fathead minnow (Pimephales promelas)			
LC50	0.72			mg/l
Duration of exposure	96	h		
Method	OECD 203			

Citral

Species	golden orfe (Leuciscus idus)			
LC50	6.78			mg/l
Duration of exposure	96	h		
Method	DIN 38412 T.15			

Daphnia toxicity (Components)**citronellol**

Species	Daphnia			
EC50	17			mg/l
Duration of exposure	48	h		

Eugenol

Species	Daphnia			
EC50	1.13			mg/l

(R)-p-mentha-1,8-diene

Species	Daphnia magna			
	0.36			mg/l
Duration of exposure	48	h		

Citral

Species	Daphnia magna			
EC50	6.8			mg/l
Duration of exposure	48	h		

Algae toxicity (Components)**citronellol**

EC50	2.4			mg/l
Duration of exposure	72	h		

Bacteria toxicity (Components)**(R)-p-mentha-1,8-diene**

Species	activated sludge			
EC50	3.94			mg/l
Method	OECD 209			

12.2. Persistence and degradability**Biodegradability**

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

Biodegradability (Components)

Trade name: Geranii africanum aetheroleum

Substance number: 014600

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 16.05.19

(R)-p-mentha-1,8-diene

Value	71	%
evaluation	Readily biodegradable	

Citral

Value	85	to	95	%
evaluation	Readily biodegradable			
Method	OECD 301C			

Chemical oxygen demand (COD) (Components)**citronellol**

Value	2050	mg/g
-------	------	------

12.3. Bioaccumulative potential**Octanol/water partition coefficient (log Pow) (Components)****Eugenol**

log Pow	2.7
---------	-----

(R)-p-mentha-1,8-diene

log Pow	4.2
---------	-----

Citral

log Pow	2.9
Temperature	25 °C

12.5. Results of PBT and vPvB assessment**Evaluation of persistence and bioaccumulation potential**

The Substance doesn't meets PBT/vPvB-criteria

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

Harmful to aquatic organisms.

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	Non-dangerous goods	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**

Trade name: Geranii africanum aetheroleum

Substance number: 014600

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 16.05.19

Water Hazard Class (Germany)

Water Hazard Class (Germany) WGK 3

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

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**Hazard statements listed in Chapter 3**

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, 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.