

Trade name: Caryophylli floris aeth

Substance number: 013900

Version: 7 / CH

Date revised: 29.06.2026

Replaces Version: 6 / CH

Print date: 29.06.26

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

1.1. Product identifier

Caryophylli floris aeth

Item No. 01390000

Registration no.

CAS No. 8000-34-8

Substance / product identification

INCI EUGENIA CARYOPHYLLUS FLOWER OIL

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

Use of the substance/preparation

Flavour/Fragrance

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)

Eye Irrit. 2 H319

Skin Sens. 1A H317

Asp. Tox. 1 H304

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

Trade name: Caryophylli floris aeth

Substance number: 013900

Version: 7 / CH

Date revised: 29.06.2026

Replaces Version: 6 / CH

Print date: 29.06.26

Hazard statements ***

H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H304 May be fatal if swallowed and enters airways.

Precautionary statements ***

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264.1 Wash hands thoroughly after handling.
 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.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P301+P310x IF SWALLOWED: Immediately call a POISON CENTER/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 *** Eugenol; isoeugenol; Methyl salicylate

Reduced labeling (<= 125 ml)**Hazard pictograms *******Signal word *****

Danger

Hazard statements ***

H317 May cause an allergic skin reaction.
 H304 May be fatal if swallowed and enters airways.

Precautionary statements ***

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
 P501.3 Disposal in compliance with local and national regulations.

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients *****Chemical characterization**

Essential oil

Hazardous ingredients *****Eugenol**

CAS No.	97-53-0		
EINECS no.	202-589-1		
Concentration	>=	50	%

Trade name: Caryophylli floris aeth

Substance number: 013900

Version: 7 / CH

Date revised: 29.06.2026

Replaces Version: 6 / CH

Print date: 29.06.26

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

Skin Sens. 1B H317

Eye Irrit. 2 H319

4-allyl-2-methoxyphenyl acetate

CAS No. 93-28-7

EINECS no. 202-235-6

Concentration \geq 10 < 25 %

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

Acute Tox. 4 H302

ATE oral 1'670 mg/kg

beta-Caryophyllen

CAS No. 87-44-5

EINECS no. 201-746-1

Concentration \geq 1 < 10 %

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

Asp. Tox. 1 H304

Methyl salicylate

CAS No. 119-36-8

EINECS no. 204-317-7

Registration no. 01-2119515671-44-0000

Concentration \geq 0.1 < 1 %

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

Acute Tox. 4 H302

Skin Sens. 1B H317

Repr. 2 H361d

Aquatic Chronic 3 H412

Eye Dam. 1 H318

isoeugenol

CAS No. 97-54-1

EINECS no. 202-590-7

Concentration \geq 0.1 < 1 %

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

Acute Tox. 4 H312

Acute Tox. 4 H302

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Skin Sens. 1A H317

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

Ensure supply of fresh air. If the patient is likely to become unconscious, place and transport in stable sideways position. Take medical treatment.

After skin contact

Wash off immediately with soap and water and rinse well.

After eye contact

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

Trade name: Caryophylli floris aeth

Substance number: 013900

Version: 7 / CH

Date revised: 29.06.2026

Replaces Version: 6 / CH

Print date: 29.06.26

physician.

After ingestion

If swallowed, seek medical advice immediately and show this container or label.

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

Carbon dioxide, Dry powder, Foam

Non suitable extinguishing media

Water

5.2. Special hazards arising from the substance or mixture

Development of toxic gases; 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**

Do not inhale vapours. Avoid contact with skin, eyes and clothing. 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

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). Ensure adequate ventilation. Dispose of absorbed material in accordance with the regulations.

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

Keep away from heat and sources of ignition. Smoking, eating and drinking should be prohibited in application area. Wear protective equipment. Provide good ventilation of working area (local exhaust ventilation if necessary).

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**

No special requirements.

Hints on storage assembly

Not required.

Storage classes

Storage class according to TRGS 510	10	Flammable liquids
Storage category (Switzerland)	10/12	Other liquid hazardous substances

Further information on storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Trade name: Caryophylli floris aeth

Substance number: 013900

Version: 7 / CH

Date revised: 29.06.2026

Replaces Version: 6 / CH

Print date: 29.06.26

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Derived No/Minimal Effect Levels (DNEL/DMEL)

Methyl salicylate

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	285	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	6	mg/kg/d
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	17.5	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	213	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Acute	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	5	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	1	mg/kg/d
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	4	mg/m ³
Type of value	Derived No Effect Level (DNEL)	

Trade name: Caryophylli floris aeth

Substance number: 013900

Version: 7 / CH

Date revised: 29.06.2026

Replaces Version: 6 / CH

Print date: 29.06.26

Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	3	mg/kg/d

Predicted No Effect Concentration (PNEC)**Methyl salicylate**

Type of value	PNEC	
Type	Freshwater	
Concentration	20	µg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0.002	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	0.35	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	140	mg/l

8.2. Exposure controls**General protective and hygiene measures**

Keep away from food-stuffs, beverages and feed-stocks. Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work. Avoid contact with skin and eyes.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection

Protective gloves
 Appropriate Material Gloves / resistant to chemicals
 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.

Eye protection

Safety glasses; Tightly fitting safety glasses

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

Physical state	liquid, clear	
Colour	yellow to brownish	
Odour	musty spicy	
Melting point		
Remarks	not determined	
Flash point		
Value	102	°C
Density and/or relative density		

Trade name: Caryophylli floris aeth

Substance number: 013900

Version: 7 / CH

Date revised: 29.06.2026

Replaces Version: 6 / CH

Print date: 29.06.26

Value	1.0300	to	1.0630	g/cm ³
Remarks	Relative Density according specification			

9.2. Other information**Solubility in water**

Remarks	Immiscible resp. little miscible.
---------	-----------------------------------

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

Heat

10.5. Incompatible materials

Reactions with strong acids. Strong bases, Avoid contact with oxidizing substances.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

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

ATE	>	10'000	mg/kg
Method	calculated value according to GHS (e.g see UN GHS)		
Remarks	Based on available data, the classification criteria are not met.		
LD50		2650	mg/kg

Acute oral toxicity (Components)**beta-Caryophyllen**

Species	rat		
LD	>	48	mg/kg
Source	Intratracheal (RTECS)		

Eugenol

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 423		

Eugenol

Species	rat		
LDLo		800	mg/kg
Remarks	intraperitoneal		

4-allyl-2-methoxyphenyl acetate

Species	rat		
LD50		1670	mg/kg

4-allyl-2-methoxyphenyl acetate

Species	rat		
LDLo		48	mg/kg
Source	Intratracheal (RTECS)		

Trade name: Caryophylli floris aeth

Substance number: 013900

Version: 7 / CH

Date revised: 29.06.2026

Replaces Version: 6 / CH

Print date: 29.06.26

Methyl salicylate

Species	rat		
LD50		887	mg/kg
Method	OECD 401		

Acute dermal toxicity

Remarks	2500	mg/kg
Based on available data, the classification criteria are not met.		

Acute dermal toxicity (Components)**4-allyl-2-methoxyphenyl acetate**

Species	rabbit		
LD50	>	5000	mg/kg

Methyl salicylate

Species	rabbit		
LD50	>	5000	mg/kg
Source	IUCLID		

beta-Caryophyllen

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

Eugenol

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

Acute inhalational toxicity

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

Acute inhalative toxicity (Components)**Eugenol**

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

Methyl salicylate

Species	rat		
LC50	>	0.7	mg/l
Duration of exposure		7	h
Administration/Form	Vapors		

Methyl salicylate

Species	rat		
NOEL		0.7	mg/l
Duration of exposure		28	d
Administration/Form	Vapors		

beta-Caryophyllen

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

4-allyl-2-methoxyphenyl acetate

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

Skin corrosion/irritation

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

Skin corrosion/irritation (Components)**Methyl salicylate**

Species	rabbit		
evaluation	slightly irritant		
Method	OECD 404		

beta-Caryophyllen

Species	rabbit		
Duration of exposure		24	h

Trade name: Caryophylli floris aeth

Substance number: 013900

Version: 7 / CH

Date revised: 29.06.2026

Replaces Version: 6 / CH

Print date: 29.06.26

evaluation non-irritant
 Method Draize method
 Source RTECS

Eugenol

Species guinea pig
 Duration of exposure 24 h
 evaluation strongly irritant
 Source RTECS
 Source 100 mg/ 24h

Eugenol

Species rabbit
 Duration of exposure 24 h
 evaluation strongly irritant
 Method Draize method
 Source RTECS
 Source 100 mg/ 24 h

Eugenol

Species guinea pig
 Duration of exposure 24 h
 evaluation Moderately irritating
 Method Draize method

4-allyl-2-methoxyphenyl acetate

Species rabbit
 Duration of exposure 24 h
 evaluation Moderately irritating

Serious eye damage/irritation

evaluation irritant
 Remarks The classification criteria are met.

Serious eye damage/irritation (Components)**Methyl salicylate**

Species rabbit
 Duration of exposure 5 min
 Method OECD 491
 Remarks Risk of serious damage to eyes.

beta-Caryophyllen

Remarks No data available.

Eugenol

Species rabbit
 evaluation irritant

4-allyl-2-methoxyphenyl acetate

Remarks No data available.

Sensitization

evaluation May cause sensitization by skin contact.
 Remarks The classification criteria are met.

Sensitization (Components)**Methyl salicylate**

evaluation May cause allergic skin reactions.
 Source ECHA

beta-Caryophyllen

Remarks No data available.

Eugenol

Species mouse

Trade name: Caryophylli floris aeth

Substance number: 013900

Version: 7 / CH

Date revised: 29.06.2026

Replaces Version: 6 / CH

Print date: 29.06.26

Method OECD 429
Remarks May cause allergic skin reactions.

4-allyl-2-methoxyphenyl acetate

Remarks No data available.

Mutagenicity

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

Mutagenicity (Components)**Methyl salicylate**

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

Methyl salicylate

Species evaluation mammal, species unspecified
No mutagenicity according to various in vitro tests.
Method OECD 473

beta-Caryophyllen

Remarks No data available.

Eugenol

Species evaluation rat
DNA damage

Eugenol

Species evaluation mouse
May cause genetic defects.

Eugenol

Species evaluation hamster
May cause genetic defects.

4-allyl-2-methoxyphenyl acetate

Remarks No data available.

Reproductive toxicity

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

Reproduction toxicity (Components)**Methyl salicylate**

Remarks Possible risk of congenital malformation in the fetus.

beta-Caryophyllen

Remarks No data available.

Eugenol

Remarks No data available.

Carcinogenicity

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

Carcinogenicity (Components)**Eugenol**

Species evaluation mouse
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

4-allyl-2-methoxyphenyl acetate

Remarks No data available.

Specific Target Organ Toxicity (STOT)

Trade name: Caryophylli floris aeth

Substance number: 013900

Version: 7 / CH

Date revised: 29.06.2026

Replaces Version: 6 / CH

Print date: 29.06.26

Single exposure

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

Repeated exposure

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

Specific Target Organ Toxicity (STOT) (Components)**beta-Caryophyllen**

Remarks Not applicable

Eugenol

Remarks Not applicable

4-allyl-2-methoxyphenyl acetate

Remarks Not applicable

Aspiration hazard

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

Aspiration hazard (Components)**beta-Caryophyllen**

Harmful: may cause lung damage if swallowed.

11.2. Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Other information

Observe the usual precautions for handling chemicals.

Warning - substance not yet fully tested.

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

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

beta-Caryophyllen

Remarks No data available.

4-allyl-2-methoxyphenyl acetate

Remarks No data available.

Daphnia toxicity (Components)**Eugenol**

Species	Daphnia	
EC50	1.13	mg/l

beta-Caryophyllen

Remarks No data available.

4-allyl-2-methoxyphenyl acetate

Remarks No data available.

Algae toxicity (Components)**Methyl salicylate**

Species Desmodesmus subspicatus

Trade name: Caryophylli floris aeth

Substance number: 013900

Version: 7 / CH

Date revised: 29.06.2026

Replaces Version: 6 / CH

Print date: 29.06.26

ErC50	1.6		mg/l
Duration of exposure	72	h	

Methyl salicylate

Species	Desmodemus subspicatus		
NOEC	0.79		mg/l
Duration of exposure	72	h	
Method	OECD 201		

beta-Caryophyllen

Remarks No data available.

Eugenol

Remarks No data available.

4-allyl-2-methoxyphenyl acetate

Remarks No data available.

Bacteria toxicity (Components)**beta-Caryophyllen**

Remarks No data available.

Eugenol

Remarks No data available.

4-allyl-2-methoxyphenyl acetate

Remarks No data available.

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

Remarks No data available.

Eugenol

Remarks No data available.

Biodegradability (Components)**Methyl salicylate**

Value	98.4		%
Duration of test	28	d	
evaluation	Readily biodegradable		
Method	OECD 301 B		

beta-Caryophyllen

Remarks No data available.

Ready degradability (Components)**beta-Caryophyllen**

Remarks No data available.

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

log Pow 2.7

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

The product contains no PBT substances
The product contains no vPvB substances.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

Trade name: Caryophylli floris aeth

Substance number: 013900

Version: 7 / CH

Date revised: 29.06.2026

Replaces Version: 6 / CH

Print date: 29.06.26

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

General information / ecology

Do not allow it to reach ground water, water bodies or sewage system. Hazard for drinking water supplies. Product is hazardous to water.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code

No not dispose with rubbish.

EWC waste code

Should not be released into the sanitary sewer system.

Disposal recommendations for packaging

Disposal in compliance with local and national regulations.

SECTION 14: Transport information ***

	Land transport ADR/RID ***	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number or ID 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.
14.5. Environmental hazards	-		

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 3

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

Other information ***

The product does not contain substances according to Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH) with a content of $\geq 0.1\%$ w/w.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

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

Eye Irrit. 2	H319	Calculation method
Skin Sens. 1A	H317	Calculation method
Asp. Tox. 1	H304	

Hazard statements listed in Chapter 2/3

H302 Harmful if swallowed.

Trade name: Caryophylli floris aeth

Substance number: 013900

Version: 7 / CH

Date revised: 29.06.2026

Replaces Version: 6 / CH

Print date: 29.06.26

H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1A	Skin sensitization, Category 1A
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.