

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Speick Thermal Sensitiv Deo Spray Art.Nr. 419**

Revision date: 17.02.2023

Product code: 766112

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Speick Thermal Sensitiv Deo Spray Art.Nr. 419

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

Cosmetics

**Uses advised against**

Any non-intended use.

**1.3. Details of the supplier of the safety data sheet**

Company name:	Speick Naturkosmetik GmbH & Co. KG	
Street:	Benzstr. 9	
Place:	D-70771 Leinfelden-Echterdingen	
Telephone:	+49 711 16 13-0	Telefax: +49 711 16 13-100
e-mail:	info@speick.de	
Contact person:	Alice Geiger	Telephone: +49 711 16 13-0
e-mail:	info@speick.de	
Responsible Department:	Dr. Gans-Eichler Chemieberatung GmbH Otto-Hahn-Str. 36 D-48161 Münster	e-mail: info@tge-consult.de Tel.: +49 2534 41594-0 www.tge-consult.de

**1.4. Emergency telephone****number:**

07 11/16 13-133

This number is serviced during office hours.

**Further Information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

This product is subject to the cosmetic regulation. This sheet was prepared on a voluntary basis.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Flam. Liq. 3; H226

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Signal word:** Warning**Pictograms:****Hazard statements**

H226 Flammable liquid and vapour.

**Precautionary statements**

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.

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P403+P235 Store in a well-ventilated place. Keep cool.  
 P501 Dispose of contents/container to local/regional/national/international regulations.

**Special labelling of certain mixtures**

EUH208 Contains (R)-p-mentha-1,8-diene; d-limonene, geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol. May produce an allergic reaction.

**Additional advice on labelling**

Labelling according to cosmetic directive.

**2.3. Other hazards**

The substances in the mixture (>0,1%) do not meet the PBT/vPvB criteria according to REACH, annex XIII. This product does not contain a substance (> 0,1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria. In use, may form flammable/explosive vapour-air mixture.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
64-17-5	ethanol; ethyl alcohol			50 - < 75 %
	200-578-6	603-002-00-5		
	Flam. Liq. 2; H225			
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene			0.5 - < 1 %
	227-813-5	601-096-00-2	01-2119529223-47	
	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1B, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 3; H226 H315 H317 H304 H400 H412			
106-24-1	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol			0.2 - < 0.3 %
	203-377-1	603-241-00-5	01-2119552430-49	
	Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1; H315 H318 H317			

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
64-17-5	200-578-6	ethanol; ethyl alcohol	50 - < 75 %
		inhalation: LC50 = 124,7 mg/l (vapours); oral: LD50 = >5000 mg/kg	
5989-27-5	227-813-5	(R)-p-mentha-1,8-diene; d-limonene	0.5 - < 1 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 2000 mg/kg Aquatic Acute 1; H400: M=1	
106-24-1	203-377-1	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol	0.2 - < 0.3 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = 3600 mg/kg	

**Further Information**

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Take off immediately all contaminated clothing.

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**After inhalation**

Remove person to fresh air and keep comfortable for breathing. In case of respiratory tract irritation, consult a physician.

**After contact with skin**

Take off immediately all contaminated clothing. Wash with plenty of water. In case of skin irritation, seek medical treatment.

**After contact with eyes**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**After ingestion**

Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. In all cases of doubt, or when symptoms persist, seek medical advice.

**4.2. Most important symptoms and effects, both acute and delayed**

No information available.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

## SECTION 5: Firefighting measures

**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. alcohol resistant foam.  
In case of major fire and large quantities: Atomized water.

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO<sub>2</sub>).

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.  
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Remove all sources of ignition. Ventilate affected area.  
Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

**For non-emergency personnel**

Wear personal protection equipment. (See section 8.)

**For emergency responders**

No special measures are necessary.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**6.3. Methods and material for containment and cleaning up**

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### For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

### For cleaning up

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

### Other information

Ventilate affected area.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations.

Wear suitable protective clothing. (See section 8.)

#### Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

Flammable vapours can accumulate in head space of closed systems. In use, may form flammable/explosive vapour-air mixture. Heating causes rise in pressure with risk of bursting.

#### Advice on general occupational hygiene

The usual precautions for handling chemicals should be considered.

Keep away from food, drink and animal feedingstuffs.

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and after work. Protect skin by using skin protective cream. Take off contaminated clothing.

#### Further information on handling

General protection and hygiene measures: See section 8.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Protect against direct sunlight.

Ensure adequate ventilation of the storage area.

Make sure spills can be contained (e.g. sump pallets or kerbed areas).

#### Hints on joint storage

Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases.

Oxidizing liquids. Oxidizing solids. ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances.. Infectious substances.

#### Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Protect against: UV-radiation/sunlight. heat. Humidity frost.

storage temperature: 15-25°C

### 7.3. Specific end use(s)

See section 1.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

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CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
5392-40-5	Citral (Inhalable Fraction and Vapour)	5	-		TWA (8 h)	
64-17-5	Ethanol	1000	-		STEL (15 min)	

## DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene			
Worker DNEL, long-term		inhalation	systemic	66,7 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	9,5 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	16,6 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	4,8 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	4,8 mg/kg bw/day
106-24-1	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol			
Worker DNEL, long-term		inhalation	systemic	161,6 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	12,5 mg/kg bw/day
Worker DNEL, long-term		dermal	local	11,8 mg/cm <sup>2</sup>
Consumer DNEL, long-term		oral	systemic	13,75 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	47,8 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	7,5 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	11,8 mg/cm <sup>2</sup>
5392-40-5	citral			
Worker DNEL, long-term		inhalation	systemic	9 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	1,7 mg/kg bw/day
Worker DNEL, long-term		dermal	local	0,14 mg/cm <sup>2</sup>
Consumer DNEL, long-term		inhalation	systemic	2,7 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	1 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,6 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	0,14 mg/cm <sup>2</sup>

## PNEC values

CAS No	Substance	Value
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene	
Freshwater		0,014 mg/l
Marine water		0,0014 mg/l
Freshwater sediment		3,85 mg/kg
Marine sediment		0,385 mg/kg
Secondary poisoning		133 mg/kg
Micro-organisms in sewage treatment plants (STP)		1,8 mg/l
Soil		0,763 mg/kg
106-24-1	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol	
Freshwater		0,011 mg/l

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Freshwater (intermittent releases)	0,108 mg/l
Marine water	0.0011 mg/l
Freshwater sediment	0.115 mg/kg
Marine sediment	0.0115 mg/kg
Micro-organisms in sewage treatment plants (STP)	0,7 mg/l
Soil	0.017 mg/kg
5392-40-5	citral
Freshwater	0,00678 mg/l
Freshwater (intermittent releases)	0,0678 mg/l
Marine water	0,000678 mg/l
Marine water (intermittent releases)	0,0678 mg/l
Freshwater sediment	0,125 mg/kg
Marine sediment	0,0125 mg/kg
Micro-organisms in sewage treatment plants (STP)	1,6 mg/l
Soil	0,0209 mg/kg

**8.2. Exposure controls****Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation as well as local exhaustion at critical locations.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses; chemical goggles (if splashing is possible). EN 166

**Hand protection**

In case of prolonged or frequently repeated skin contact: Wear suitable gloves. (EN 374)

Suitable material: Butyl rubber.

Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  480 min. Penetration time (maximum wearing period): ~ 120 min. (estimated)

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

**Skin protection**

Wear suitable protective clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Exceeding exposure limit values

Insufficient ventilation

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Suitable respiratory protective equipment: gas filtering equipment (EN 141), type: A  
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

**Environmental exposure controls**

Do not allow uncontrolled discharge of product into the environment.

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

Physical state:	liquid
Colour:	light yellow
Odour:	characteristic
Odour threshold:	not determined

**Changes in the physical state**

Melting point/freezing point:	not applicable
Boiling point or initial boiling point and boiling range:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Flash point:	23 °C

**Flammability**

Solid/liquid:	not determined
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**Explosive properties**

In use, may form flammable/explosive vapour-air mixture.

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not determined

**Self-ignition temperature**

Solid:	not relevant
Gas:	not relevant

Decomposition temperature:	not determined
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pH-Value:	4,5 - 5,5
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Viscosity / dynamic:	not determined
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Viscosity / kinematic:	not determined
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Flow time:	not determined
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Water solubility:	miscible.
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**Solubility in other solvents**

not determined

Dissolution rate:	not relevant
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Partition coefficient n-octanol/water:	not determined
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Dispersion stability:	not relevant
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Vapour pressure:	not determined
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Density (at 20 °C):	0,901 - 0,907 g/cm <sup>3</sup>
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Bulk density:	not determined
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Relative vapour density:	not determined
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Particle characteristics: not determined

**9.2. Other information****Information with regard to physical hazard classes**

Sustaining combustion: No data available

Oxidizing properties  
none.**Other safety characteristics**

Solvent separation test: not determined

Solvent content: not determined

Solid content: not determined

Evaporation rate: not determined

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

No information available.

**10.2. Chemical stability**

The mixture is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

Refer to chapter 10.5.

**10.4. Conditions to avoid**

Protect against: UV-radiation/sunlight. heat. moisture.

In use may form flammable/explosive vapour-air mixture.

Heating causes rise in pressure with risk of bursting.

**10.5. Incompatible materials**

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong. Strong acid. strong alkalis.

**10.6. Hazardous decomposition products**

Does not decompose when used for intended uses.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Toxicokinetics, metabolism and distribution**

No data available.

**Acute toxicity**

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

The product has not been tested.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64-17-5	ethanol; ethyl alcohol				
	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier
	inhalation (4 h) vapour	LC50 mg/l	124,7	Rat	ECHA Dossier
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene				



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	oral	LD50 mg/kg	> 2000	Rat	ECHA Dossier	OECD Guideline 423
	dermal	LD50 mg/kg	> 5000	Rabbit	ECHA Dossier	Read-across
106-24-1	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol					
	oral	LD50 mg/kg	3600	Rat	ECHA Dossier	
	dermal	LD50 mg/kg	>5000	Rabbit.	ECHA Dossier	

**Irritation and corrosivity**

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

**Sensitising effects**

Contains (R)-p-mentha-1,8-diene; d-limonene, geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol. May produce an allergic reaction.

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

Ethanol (CAS-No.: 64-17-5):

In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist. Reproductive toxicity: Exposure time: 18 weeks Species: CD-1 Mouse. Method: OECD Guideline 416

Result: NOAEL = 20700 mg/kg/day Developmental toxicity/teratogenicity: Exposure time: 19d Species: Sprague-Dawley Rat. Method: OECD Guideline 414 Result: NOAEL = 16000 ppm (maternal toxicity) Result: NOAEL &gt;= 20000 ppm (teratogenicity)

Literature information: ECHA Dossier

(R)-p-mentha-1,8-diene; d-limonene (CAS-No.: 5989-27-5):

In-vitro mutagenicity: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) = negative.

Literature information: ECHA Dossier

Carcinogenicity: Method: OECD Guideline 451 (Carcinogenicity Studies); Species: Rat; Length of test: 2 years;

Result: NOAEL &gt;= 300 &lt;= 600 mg/kg

Literature information: ECHA Dossier

geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (CAS-No.: 106-24-1):

In-vitro mutagenicity: Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) Result: negative.

Literature information: ECHA Dossier

Reproductive toxicity: (dermal.) Method: OECD Guideline 421 (Reproduction / Developmental Toxicity

Screening Test) Species: Rat, Result: NOEL = 300 mg/kg

Literature information: ECHA Dossier

Developmental toxicity/teratogenicity: (dermal.) Method: OECD Guideline 421 (Reproduction / Developmental

Toxicity Screening Test) Species: Rat, Result: NOAEL = 300 mg/kg

Literature information: ECHA Dossier

**STOT-single exposure**

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

**STOT-repeated exposure**

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

Ethanol (CAS-No.: 64-17-5):

Subchronic oral toxicity:

Exposure time: 90d; Species: Sprague-Dawley Rat.

Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents); Result: NOAEL = 1280 mg/kg

Literature information: ECHA Dossier

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(R)-p-mentha-1,8-diene; d-limonene (CAS-No.: 5989-27-5):  
 Subacute oral toxicity: Species: Mouse. NOEL = 1650 mg/kg  
 Literature information: ECHA Dossier

geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (CAS-No.: 106-24-1):  
 Subchronic oral toxicity: Method: -, Species: Rat,  
 Results: NOEL >= 550 mg/kg  
 Literature information: ECHA Dossier

**Aspiration hazard**

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

**Specific effects in experiment on an animal**

No data available.

**11.2. Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance (> 0,1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**Other information**

No data available.

**Further information**

Solvent:

Symptoms: Depression of the central nervous system. Liver and kidney damage. drowsiness. vomiting.

Nausea. Dizziness. unconsciousness. Impaired consciousness. Intoxication. erythema (redness)

**SECTION 12: Ecological information****12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
64-17-5	ethanol; ethyl alcohol					
	Acute fish toxicity	LC50 14200 mg/l	96 h	Pimephales promelas	ECHA Dossier	
	Acute algae toxicity	ErC50 275 mg/l	72 h	Chlorella vulgaris	ECHA Dossier	
	Acute crustacea toxicity	EC50 5012 mg/l	48 h	Ceriodaphnia dubia	ECHA Dossier	
	Crustacea toxicity	NOEC 9,6 mg/l	9 d	Daphnia magna	ECHA Dossier	
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene					
	Acute fish toxicity	LC50 0,72 mg/l	96 h	Pimephales promelas	ECHA Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 0,32 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 0,307 mg/l	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202
	Acute bacteria toxicity	(EC50 209 mg/l)	3 h		ECHA Dossier	
106-24-1	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol					
	Acute fish toxicity	LC50 22 mg/l	96 h	Danio rerio	ECHA Dossier	
	Acute algae toxicity	ErC50 13,1 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 10,3 mg/l	48 h	Daphnia magna	ECHA Dossier	

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**12.2. Persistence and degradability**

CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
64-17-5	ethanol; ethyl alcohol				
	other guideline: -	84%	20	ECHA Dossier	
	Biodegradable.				
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene				
	OECD 301D / EEC 92/69 annex V, C.4-E	80 %	28	ECHA Dossier	
	Easily biodegradable (concerning to the criteria of the OECD)				
106-24-1	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol				
	OECD Guideline 301 A (new version)	90%	3	ECHA Dossier	
	Easily biodegradable (concerning to the criteria of the OECD)				

**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
64-17-5	ethanol; ethyl alcohol	-0,35
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene	4,38
106-24-1	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol	2,6

**BCF**

CAS No	Chemical name	BCF	Species	Source
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene	864,8		ECHA Dossier

**12.4. Mobility in soil**

No data available.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

**12.7. Other adverse effects**

No data available.

**Further information**

Do not allow to enter into surface water or drains.

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

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

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**List of Wastes Code - residues/unused products**

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

**List of Wastes Code - used product**

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number or ID number:** UN 1266  
**14.2. UN proper shipping name:** PERFUMERY PRODUCTS  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



Classification code: F1  
 Special Provisions: 163  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 Transport category: 3  
 Hazard No: 30  
 Tunnel restriction code: D/E

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** UN 1266  
**14.2. UN proper shipping name:** Perfumery products  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



Classification code: F1  
 Special Provisions: 163  
 Limited quantity: 5 L  
 Excepted quantity: E1

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 1266  
**14.2. UN proper shipping name:** PERFUMERY PRODUCTS  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3

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Marine pollutant: NO  
 Special Provisions: 163 223 904 955  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 EmS: F-E, S-D

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** UN 1266  
**14.2. UN proper shipping name:** PERFUMERY PRODUCTS  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



Special Provisions: A3 A72  
 Limited quantity Passenger: 10 L  
 Passenger LQ: Y344  
 Excepted quantity: E1  
 IATA-packing instructions - Passenger: 355  
 IATA-max. quantity - Passenger: 60 L  
 IATA-packing instructions - Cargo: 366  
 IATA-max. quantity - Cargo: 220 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

See section 8.

**14.7. Maritime transport in bulk according to IMO instruments**

not relevant.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

**Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

REACH 1907/2006 Appendix XVII, No (mixture): 3, 40

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

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**15.2. Chemical safety assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

(R)-p-mentha-1,8-diene; d-limonene

geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol

**SECTION 16: Other information****Changes**

Rev. 1.00; Initial release 02.05.2018

Rev. 2.0; Revision: 17.02.2023, Changes in chapter: 1 - 16

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No Effect Level

d: day(s)

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

ECHA: European Chemicals Agency

EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

h: hour

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect concentration

NLP: No-Longer Polymers

N/A: not applicable

OECD: Organisation for Economic Co-operation and Development

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )

REACH: Registration, Evaluation, Authorisation of Chemicals

SVHC: substance of very high concern

TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds

**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data

**Relevant H and EUH statements (number and full text)**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

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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.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains (R)-p-mentha-1,8-diene; d-limonene, geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol. May produce an allergic reaction.

**Further Information**

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*