

Safety Data Sheet

[Prepared in accordance with Regulation EC 1907/2006 (REACH), as amended]

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

1.1. Product identifier

Trade name: Rento Sauna Scent Birch 10ml, 317946

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

Relevant identified uses: air freshener.
Uses advised against: not determined.

1.3. Details of the supplier of the safety data sheet

Supplier: Tammer Brands Oy
Address: PL 107, 33101 Tampere, FI
Telephone/fax: +358 3 2521 111 / +358 3 2521 350
E-mail address for a competent person responsible for SDS: johanna.torvela@tammerbrands.fi

1.4. Emergency telephone number

112 (general emergency telephone number)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Asp. Tox. 1 H304, Skin Corr. 1B H314, Skin Sens. 1 H317, Eye Dam. 1 H318, Aquatic Chronic 2 H411

May be fatal if swallowed and enters airways. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictograms and signal words



Hazardous components placed on the label

Contains: acetyl cedrene; caryophyllene; 4-tert-butylcyclohexyl acetate; 3-phenylpropan-1-ol; linalool; reaction mass of 3,5,6,6-tetramethyl-4-methyleneheptan-2-one and (E)-3,4,5,6,6-pentamethylhept-3-en-2-one; benzyl cinnamate; eugenol; 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one; [3R-(3 α ,3a β ,6 α ,7 β ,8 α)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene; cineole; p-mentha-1,4(8)-diene.

Hazard statements

H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P102	Keep out of reach of children.
P273	Avoid release to the environment.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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/doctor.

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P501

Dispose of contents/container to properly labelled waste containers according to national law.

Additional information

None.

2.3. Other hazards

Product does not contain components, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

CAS number: 32388-55-9 EC number: 251-020-3 Index number: — Registration number: 01-2119969651-28-XXXX	acetyl cedrene Skin Sens. 1B H317, Aquatic Acute 1 H400 (M=1), Aquatic Chronic 1 H410 (M=1)	C < 15 %
CAS number: 928-96-1 EC number: 213-192-8 Index number: — Registration number: 01-2119969743-23-XXXX	cis-hex-3-en-1-ol Flam. Liq. 3 H226, Eye Irrit. 2 H319	C < 15 %
CAS number: 8000-41-7 EC number: 232-268-1 Index number: — Registration number: 01-2119553062-49-XXXX	terpineol Skin Irrit. 2 H315, Eye Irrit. 2 H319	C < 15 %
CAS number: 87-44-5 EC number: 201-746-1 Index number: — Registration number: 01-2120745237-53-XXXX	caryophyllene Asp. Tox. 1 H304, Skin Sens. 1B H317	C < 15 %
CAS number: 32210-23-4 EC number: 250-954-9 Index number: — Registration number: 01-2119976286-24-XXXX	4-tert-butylcyclohexyl acetate Skin Sens. 1B H317	C < 10 %
CAS number: 122-97-4 EC number: 204-587-6 Index number: — Registration number: 01-2120756397-42-XXXX	3-phenylpropan-1-ol Skin Corr. 1B H314, Eye Dam. 1 H318	C < 7,5 %



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CAS number: 78-70-6 EC number: 201-134-4 Index number: 603-235-00-2 Registration number: 01-2119474016-42-XXXX	linalool Skin Irrit. 2 H315, Skin Sens. 1B H317, Eye Irrit. 2 H319	C < 3,6 %
CAS number: — ECHA List number: 946-245-5 Index number: — Registration number: 01-2119980043-42-XXXX	reaction mass of 3,5,6,6-tetramethyl-4-methyleneheptan-2-one and (E)-3,4,5,6,6-pentamethylhept-3-en-2-one Skin Sens. 1B H317, Aquatic Chronic 2 H411	C < 3,6 %
CAS number: 103-41-3 EC number: 203-109-3 Index number: — Registration number: —	benzyl cinnamate Skin Sens. 1B H317, Aquatic Acute 1 H400 (M=1), Aquatic Chronic 2 H411	C < 2,1 %
CAS number: 97-53-0 EC number: 202-589-1 Index number: — Registration number: 01-2119971802-33-XXXX	eugenol Skin Sens. 1B H317, Eye Irrit. 2 H319	C < 2 %
CAS number: 150-84-5 EC number: 205-775-0 Index number: — Registration number: 01-2119959860-27-XXXX	citronellyl acetate Skin Irrit. 2 H315, Aquatic Chronic 2 H411	C < 2 %
CAS number: 54464-57-2 EC number: 259-174-3 Index number: — Registration number: 01-2119489989-04-XXXX	1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic 2 H411	C < 2 %
CAS number: 118-61-6 EC number: 204-265-5 Index number: — Registration number: —	ethyl salicylate Acute Tox. 4 H302, Skin Irrit. 2 H315	C < 2 %
CAS number: 67874-81-1 EC number: 267-510-5 Index number: — Registration number: 01-2120228335-61-XXXX	[3R-(3α,3aβ,6α,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene Skin Sens. 1B H317, Aquatic Acute 1 H400 (M=1), Aquatic Chronic 1 H410 (M=1)	C < 1 %
CAS number: 52475-86-2 EC number: 257-942-2 Index number: — Registration number: 01-2120735080-68-XXXX	1-methyl-4-(4-methyl-3-pentenyl)cyclohex-3-ene-1-carbaldehyde Aquatic Acute 1 H400 (M=1), Aquatic Chronic 1 H410 (M=1)	C < 0,5 %
CAS number: 470-82-6 EC number: 207-431-5 Index number: — Registration number: —	cineole Flam. Liq. 3 H226, Skin Sens. 1B H317, Eye Irrit. 2 H319	C < 0,5 %
CAS number: 586-62-9 EC number: 209-578-0 Index number: — Registration number: —	p-mentha-1,4(8)-diene Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 (M=1), Aquatic Chronic 1 H410 (M=1)	C < 0,5 %

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CAS number: 469-61-4 EC number: 207-418-4 Index number: — Registration number: —	alpha cedrene Asp. Tox. 1 H304, Skin Irrit. 2 H315, Aquatic Acute 1 H400 (M=10), Aquatic Chronic 1 H410 (M=10)	C < 0,1 %
CAS number: 546-28-1 EC number: 208-898-8 Index number: — Registration number: —	[3R-(3α,3$\alpha$$\beta$,7$\beta$,8$\alpha$$\alpha$)]-octahydro-3,8,8-trimethyl-6-methylene-1H-3a,7-methanoazulene Asp. Tox. 1 H304, Aquatic Acute 1 H400 (M=10), Aquatic Chronic 1 H410 (M=10)	C < 0,1 %

Full text of each H phrase is given in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Contact with skin

Take off contaminated clothing. Wash the exposed parts of the skin thoroughly with water. Apply a sterile dressing. Immediately call a doctor.

Contact with eyes

Protect non-irritated eye, remove contact lenses. Rinse contaminated eyes thoroughly with water for 10 - 15 minutes. Avoid powerful water stream – risk of cornea damage. Apply a sterile dressing. Immediately consult a ophthalmologist.

Ingestion

Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. In case of spontaneous vomiting, keep the head low to avoid aspiration of gastric contents into the lungs. Consult a doctor immediately, show the packaging or label.

After inhalation

Remove the victim to fresh air, keep warm and at rest. Consult a doctor if disturbing symptoms appear.

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

Contact with skin

The product may cause redness, burning sensation, irritation, burns, pain, allergic reaction.

Contact with eyes

The product may cause burning sensation, irritation, tearing, pain, risk of serious damage to eyes, conjunctival redness.

Ingestion

The product, if swallowed or after vomiting, may directly penetrate the lungs and cause severe lung damage (aspiration pneumonia). May cause nausea, vomiting, abdominal pains, mouth, throat and esophagus burns, risk esophageal and gastric perforation.

After inhalation

High concentration of vapours and mists may cause headaches, somnolence, respiratory irritation.

Effects of exposure

There are no known effects other than those mentioned above.

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

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: adapt the extinguishing media to surrounding materials.

Unsuitable extinguishing media: water jet – risk of the propagation of the flame.

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5.2. Special hazards arising from the substance or mixture

During the fire may produce harmful gases containing e.g. carbon monoxides, other hazardous unidentified products of thermal decomposition. Do not inhale combustion products, they can be dangerous for human health.

5.3. Advice for firefighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Cool down the containers that are endangered by fire with a water spray from a safe distance. Collect used extinguishing media.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Ensure that only the trained personnel removes the effects of the accident. Avoid eyes and skin contamination. Do not breathe vapours. In case of large spills, isolate the exposed area. Use personal protective equipment.

6.2. Environmental precautions

Do not allow the product to get into the sewage system, surface waters and soil. In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services.

6.3. Methods and material for containment and cleaning up

Small leakage: collect the spilled product with incombustible absorbing materials (e.g. sand, earth, universal binding agents, silica etc.) and place it in waste containers. Treat the collected material as waste. Clean and ventilate the contaminated area.

Large leakage: isolate places where liquid accumulates; pump the collected liquid out.

6.4. Reference to other sections

Appropriate conduct with waste product – see section 13. Personal protective equipment – see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Provide general and / or local ventilation in the workplace. Use personal protective equipment. Avoid vapor formation. Before break and after work wash hands carefully. Keep the unused containers tightly closed. Do not eat, drink and smoke during the work. Avoid eyes and skin contamination.

7.2. Conditions for safe storage, including any incompatibilities

Store in properly labeled, sealed packages in a dry, cool and well-ventilated place. Container that is opened should be properly resealed and kept upright to prevent leakage. Keep away from incompatible materials (see subsection 10.5). Keep away from, foodstuffs and animal feed. Protect from frost. Avoid sources of heat and direct sunlight.

7.3. Specific end use(s)

No information about other uses than those mentioned in subsection 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limit Values

The product does not contain components subject to exposure controls in the workplace.

Legal Basis: Commission Directive 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU.

Recommended control procedures

Not applicable.

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DNEL and PNEC

acetyl cedrene [CAS 32388-55-9]			
Exposure route	Exposure scheme	DNEL	
		worker	consumer
inhalation	long-term systemic	1,17 mg/m ³	0,29 mg/m ³
skin	long-term systemic	0,333 mg/kg bw/day	0,167 mg/kg bw/day
oral	long-term systemic	—	0,167 mg/kg bw/day

acetyl cedrene [CAS 32388-55-9]	
PNEC	Value
marine water	0,174 µg/l
freshwater	1,74 µg/l
soil	4,87 mg/kg dry weight
freshwater sediment	24,4 mg/kg dry weight
marine water sediment	2,44 mg/kg dry weight
sewage treatment plant	10 mg/l
freshwater (intermittent release)	8,6 µg/l

cis-hex-3-en-1-ol [CAS 928-96-1]			
Exposure route	Exposure scheme	DNEL	
		worker	consumer
inhalation	long-term systemic	11,75 mg/m ³	2,9 mg/m ³
skin	long-term systemic	3,33 mg/kg bw/day	1,67 mg/kg bw/day
oral	long-term systemic	—	1,67 mg/kg bw/day

4-tert-butylcyclohexyl acetate [CAS 32210-23-4]	
PNEC	Value
marine water	0,53 µg/l
freshwater	5,3 µg/l
soil	0,42 mg/kg dry weight
freshwater sediment	2,01 mg/kg dry weight
marine water sediment	0,21 mg/kg dry weight
sewage treatment plant	12,2 mg/l
secondary poisoning	66,67 mg/kg food
freshwater (intermittent release)	53 µg/l

3-phenylpropan-1-ol [CAS 122-97-4]			
Exposure route	Exposure scheme	DNEL	
		worker	consumer
inhalation	long-term systemic	24,68 mg/m ³	3,7 mg/m ³
skin	long-term systemic	14 mg/kg bw/day	5 mg/kg bw/day
oral	long-term systemic	—	2,5 mg/kg bw/day

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3-phenylpropan-1-ol [CAS 122-97-4]			
PNEC		Value	
marine water		0,006 mg/l	
freshwater		0,061 mg/l	
soil		0,067 mg/kg dry weight	
freshwater sediment		0,513 mg/kg dry weight	
marine water sediment		0,051 mg/kg dry weight	
sewage treatment plant		3 mg/l	
freshwater (intermittent release)		0,61 mg/l	

citronellyl acetate [CAS 150-84-5]			
Exposure route	Exposure scheme	DNEL	
		worker	consumer
inhalation	long-term systemic	17 mg/m ³	4,2 mg/m ³
skin	long-term systemic	4,8 mg/kg bw/day	2,4 mg/kg bw/day
oral	long-term systemic	—	2,4 mg/kg bw/day

citronellyl acetate [CAS 150-84-5]	
PNEC	Value
marine water	0 mg/l
freshwater	0,003 mg/l
soil	0,168 mg/kg dry weight
freshwater sediment	0,851 mg/kg dry weight
marine water sediment	0,085 mg/kg dry weight
sewage treatment plant	10 mg/l
freshwater (intermittent release)	0,035 mg/l

8.2. Exposure controls

Industrial hygiene

Use the product in accordance with good occupational hygiene and safety practices. Do not eat, drink and smoke during the work. Before break and after work wash hands carefully. Ensure adequate general and/or local ventilation at the workplace. If during work processes there is a risk of splashing the workers with caustic agents - safety showers (for washing the whole body) and separate eyewash stations should be installed no further than 20 meters in horizontal line from the posts on which the processes are carried out.

Individual protection measures

The necessity to use and the selection of appropriate personal protective equipment should take into account the type of risk posed by the product, working conditions and the way of handling the product. The personal protective equipment used must meet the requirements of Regulation (EU) 2016/425 and the relevant standards. The employer is obliged to provide protection measures appropriate to the activities performed and meeting all quality requirements, including their maintenance and cleaning. Any contaminated or damaged PPE must be replaced immediately.

Hand protection

Use protective gloves resistant to chemicals according to EN 374. In case of a short exposure, use protective gloves with 2nd or higher level of effectiveness (breakthrough time > 30 min). In case of a long exposure, use protective gloves with 6th level of effectiveness (breakthrough time > 480 min). Select the material for the gloves individually at the workplace.

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Body protection

Use skin protection measures adequate to the existing thermal, chemical or mechanical hazards.

Eye protection

Use safety glasses in accordance with EN 166.

Respiratory protection

In cases where the risk assessment indicates that it is necessary, respiratory protective equipment compliant with the EN136 standard (masks) or EN 140 (half masks, quarter masks) should be used.

Thermal hazards

Not applicable.

Environmental exposure controls

Prevent direct release to drains/ surface waters. Do not contaminate surface waters and drainage ditches with chemicals or used containers. Released product or uncontrolled spills to surface waters should be reported to appropriate authorities in accordance with local and national legislations. Dispose as chemical waste, in accordance with local and national legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	light yellow
Odour:	characteristic
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	> 40 °C
Flammability:	the product is not classified in terms of flammability
Lower and upper explosion limit:	not determined
Flash point:	77 °C
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH:	not determined
Kinematic viscosity:	not determined
Solubility:	soluble in water
Partition coefficient n-octanol/water (log value):	not applicable
Vapour pressure:	not determined
Density and/or relative density:	0,932-0,942
Relative vapour density:	not determined
Particle characteristics:	not applicable

9.2. Other information

No additional tests.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is not very reactive. It does not go under hazardous polymerization. See also subsection 10.3-10.5.

10.2. Chemical stability

The product is stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

Hazardous reactions are not known.

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10.4. Conditions to avoid

Avoid sources of heat and direct sunlight. Keep away from cold.

10.5. Incompatible materials

Avoid contact with following materials: strong oxidants, strong acids, strong bases.

10.6. Hazardous decomposition products

Not known.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

acetyl cedrene [CAS 32388-55-9]	
LD ₅₀ (oral, rat)	4500 mg/kg
LD ₅₀ (skin, rabbit)	> 5000 mg/kg

cis-hex-3-en-1-ol [CAS 928-96-1]	
LC ₅₀ (inhalation, rat)	> 4,99 mg/l/4h
LD ₅₀ (oral, rat)	4615 mg/kg
LD ₅₀ (skin, rabbit)	> 5000 mg/kg

3-phenylpropan-1-ol [CAS 122-97-4]	
LD ₅₀ (oral, rat)	2250 mg/kg
LD ₅₀ (skin, rabbit)	< 5000 mg/kg

citronellyl acetate [CAS 150-84-5]	
LD ₅₀ (oral, rat)	6800 mg/kg
LD ₅₀ (skin, rabbit)	> 2000 mg/kg

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

Skin corrosion/irritation

Causes severe skin burns.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

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

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STOT-repeated exposure

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

Aspiration hazard

The product, if swallowed or after vomiting, may directly penetrate the lungs and cause severe lung damage (aspiration pneumonia).

Information on likely routes of exposure

Exposure route: eye exposure, skin exposure, inhalation, ingestion. For more information on the impact of each possible route of exposure, see subsection 4.2.

Symptoms related to the physical, chemical and toxicological characteristics

See subsection 4.2 of the SDS.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

See subsection 4.2 of the SDS.

11.2. Information on other hazards

Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

Other information

No data on other hazards.

SECTION 12: Ecological information

12.1. Toxicity

acetyl cedrene [CAS 32388-55-9]		
LC ₅₀ (fish)	2,3 mg/l / 96 h / <i>Pimephales promelas</i>	method: EPA OPPTS 850.1075 / EU C.1 / OECD 203
EC ₅₀ (invertebrates)	0,86 mg/l / 48 h / <i>Daphnia magna</i>	method: ISO 6341 / EPA OPPTS 850.1010 / EU C.2 / OECD 202
NOEC (invertebrates)	0,087 mg/l / 21 days / <i>Daphnia magna</i>	method: EPA OPPTS 850.1300 / OECD 211
cis-hex-3-en-1-ol [CAS 928-96-1]		
LC ₅₀ (fish)	> 100 mg/l / 96 h / <i>Oncorhynchus mykiss</i>	method: OECD 203 / EU C.1
EC ₅₀ (invertebrates)	> 100 mg/l / 48 h / <i>Daphnia magna</i>	method: OECD 202 / EU C.2
EC ₅₀ (algae)	> 76 mg/l / 72 h / <i>Pseudokirchneriella subcapitata</i>	method: OECD 201
caryophyllene [CAS 87-44-5]		
EC ₅₀ (invertebrates)	> 0,17 mg/l / 48 h / <i>Daphnia magna</i>	method: OECD 202 / EU C.2
EC ₅₀ (algae)	> 0,033 mg/l / 72 h / <i>Raphidocelis subcapitata</i>	method: OECD 201 / EU C.3
3-phenylpropan-1-ol [CAS 122-97-4]		
LC ₅₀ (fish)	> 61 mg/l / 96 h / <i>Danio rerio</i>	method: OECD 203
EC ₅₀ (invertebrates)	60,6 mg/l / 48 h / <i>Daphnia magna</i>	method: OECD 202
EC ₅₀ (algae)	109 mg/L / 72 h / <i>Raphidocelis subcapitata</i>	method: OECD 201

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reaction mass of 3,5,6,6-tetramethyl-4-methyleneheptan-2-one and (E)-3,4,5,6,6-pentamethylhept-3-en-2-one		
LC ₅₀ (fish)	4,8 mg/l / 96 h / <i>Cyprinus carpio</i>	method: OECD 203
EC ₅₀ (invertebrates)	6,1 mg/l / 48 h / <i>Daphnia magna</i>	method: OECD 202
EC ₅₀ (algae)	21 mg/l / 72 h / <i>Desmodesmus subspicatus</i>	method: OECD 201
EC ₅₀ (microorganisms)	910 mg/l / 3 h / —	method: OECD 209 / ISO 8192

benzyl cinnamate [CAS 103-41-3]		
LC ₅₀ (fish)	> 0,643 mg/l / 96 h / <i>Danio rerio</i>	method: OECD 203 / EU C.1
EC ₅₀ (invertebrates)	2,8 mg/l / 48 h / <i>Daphnia magna</i>	method: EU C.2 / OECD 202
EC ₅₀ (algae)	0,158 mg/l / 72 h / <i>Pseudokirchneriella subcapitata</i>	method: OECD 201 / EU C.3

citronellyl acetate [CAS 150-84-5]		
LC ₅₀ (fish)	6,1 mg/l / 96 h / <i>Danio rerio</i>	method: OECD 203
EC ₅₀ (invertebrates)	3,48 mg/l / 48 h / <i>Daphnia magna</i>	method: OECD 202

Mixture		
Toxic to aquatic life with long lasting effects.		

12.2. Persistence and degradability

acetyl cedrene CAS 32388-55-9	Biodegradable	36%/28 days	method: OECD 301 F
cis-hex-3-en-1-ol CAS 928-96-1	Easily biodegradable	77%/28 days	method: OECD 301 F
caryophyllene CAS 87-44-5	Biodegradable	56%/28 days	method: OECD 310 / EU C.29
3-phenylpropan-1-ol CAS 122-97-4	Easily biodegradable	83%/28 days	method: OECD 301 F
reaction mass of 3,5,6,6-tetramethyl-4-methyleneheptan-2-one and (E)-3,4,5,6,6-pentamethylhept-3-en-2-one	Easily biodegradable	0%/28 days	method: OECD 301 D
benzyl cinnamate CAS 103-41-3	Easily biodegradable	94%/28 days	method: OECD 301 F / EU C.4-D
citronellyl acetate CAS 150-84-5	Easily biodegradable	93%/28 days	method: OECD 310

12.3. Bioaccumulative potential

acetyl cedrene CAS 32388-55-9	log Po/w ≤ 5,6 - 5,9	method: OECD 117
	BCF = 867	method: OECD 305
cis-hex-3-en-1-ol CAS 928-96-1	log Po/w = 1	method: OECD 117
	BCF = —	method: —

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caryophyllene CAS 87-44-5	log Po/w = 6,23	method: OECD 123
	BCF = —	method: —
3-phenylpropan-1-ol CAS 122-97-4	log Po/w = 1,6	method: OECD 117
	BCF = —	method: —
reaction mass of 3,5,6,6-tetramethyl-4-methyleneheptan-2-one and (E)-3,4,5,6,6-pentamethylhept-3-en-2-one	log Po/w = 4,44	method: OECD 117 / EU A.8
	BCF = 81	method: —
benzyl cinnamate CAS 103-41-3	log Po/w = 4,18	method: EU A.8 / OECD 117
	BCF = —	method: —

12.4. Mobility in soil

Mobility of components of the mixture in soil depends on the hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms.

12.5. Results of PBT and vPvB assessment

Product does not contain components, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

12.6. Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

12.7. Other adverse effects

The mixture is not classified as hazardous to the ozone layer. Consider other harmful effects of individual components of the mixture on the environment (eg, global warming potential).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendations for the product

The waste product should be recovered or disposed of in authorized incineration plants or waste disposal / neutralization plants, in accordance with applicable regulations. Do not empty into drains.

Recommendations for used packaging

Reuse / recycle / eliminate empty containers in accordance with the local legislation. Only completely empty containers can be reused.

EU legal acts: directives of the European Parliament and of the Council: 2008/98 / EC as amended and 94/62 / EC as amended.

Recommended waste codes

The waste code should be assigned at the place of its formation.

SECTION 14: Transport information

14.1. UN number or ID number

UN 1760

14.2. UN proper shipping name

ADR

CORROSIVE LIQUID, N.O.S.

[ACETYL CEDRENE, 3-PHENYLPROPAN-1-OL]

IMDG

Safety Data Sheet

[Prepared in accordance with Regulation EC 1907/2006 (REACH), as amended]

CORROSIVE LIQUID, N.O.S.

[ACETYL CEDRENE, 3-PHENYLPROPAN-1-OL]

ICAO/IATA

CORROSIVE LIQUID, N.O.S.

[ACETYL CEDRENE, 3-PHENYLPROPAN-1-OL]

14.3. Transport hazard class(es)

8

14.4. Packing group

II

14.5. Environmental hazards

ADR yes

IMDG yes

ICAO/IATA yes

14.6. Special precautions for user

Use personal protective equipment according to section 8 when handling the product.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

Additional data

ADR	limited quantity LQ	1 L
	transport category	2
	tunnel restriction code	(E)
IMDG	limited quantity LQ	1 L
	EmS code	F-A, S-B
ICAO/IATA	packing instruction (LQ)	Y840
	limited quantity (LQ)	0,5 L
	packing instruction, passenger	851
	maximum quantity, passenger	1 L
	packing instruction, cargo	855
	maximum quantity, cargo	30 L

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

ADR Agreement concerning the International Carriage of Dangerous Goods by Road.

IMDG Code International Maritime Dangerous Goods Code

IATA Dangerous Goods Regulations

1907/2006/EC REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (as amended).

1272/2008/EC REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (as amended).

2020/878/EU COMMISSION REGULATION of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals..

91/322/ECC Commission Directive of 29 May 1991 on establishing indicative limit values by implementing Council Directive 80/1107/EEC on the protection of workers from the risks related to exposure to chemical, physical and biological agents at work.



Safety Data Sheet

[Prepared in accordance with Regulation EC 1907/2006 (REACH), as amended]

2000/39/EC COMMISSION DIRECTIVE of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

2006/15/EC COMMISSION DIRECTIVE of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

2009/161/EU COMMISSION DIRECTIVE of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

2017/164/EU COMMISSION DIRECTIVE of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

2019/1831/EU COMMISSION DIRECTIVE of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

2008/98/EC DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives (as amended).

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended

2016/425/EU REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

The components of the mixture are not included in Annex XVII of the REACH Regulation.

The components of the mixture are not included in Annex XIV of the REACH Regulation.

15.2. Chemical safety assessment

A Chemical Safety Assessment is not required for mixtures.

SECTION 16: Other information

Full text of H phrases mentioned in section 3

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
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.
H411	Toxic to aquatic life with long lasting effects.

Clarification of abbreviations and acronyms

ADR	Agreement concerning the International Carriage of Dangerous Goods by Road.
DIN	German Institute for Standardization
DNEL	Derived No-Effect Level.
EC ₅₀	(median effective concentration) - statistically calculated concentration of a chemical substance in an environmental medium that can cause specific effects in 50% of the tested organisms of a given population under certain conditions.
EN	European standard
IATA	The International Air Transport Association.
IMDG	International Maritime Dangerous Goods Code.
ISO	International Organization for Standardization
LC ₅₀	Concentration of a substance that is lethal to 50 percent of the organisms in a toxicity test.
LD ₅₀	Dose of a substance that is lethal to 50 percent of the organisms in a toxicity test.
NOEC	The highest concentration that does not cause a statistically significant adverse effect in the exposed population, when compared with its appropriate control.
OECD	Organisation for Economic Cooperation and Development



Safety Data Sheet

[Prepared in accordance with Regulation EC 1907/2006 (REACH), as amended]

PBT	Persistent, bioaccumulative and toxic substance.
PNEC	Predicted no-effect concentration.
RID	The Regulation concerning the International Carriage of Dangerous Goods by Rail.
vPvB	Very persistent and very bioaccumulative substance.
Acute Tox. 4	Acute toxicity - category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute - category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic - category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic - category 2
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 Corr. 1B	Skin corrosion - category 1B
Skin Irrit. 2	Skin irritation - category 2
Skin Sens. 1	Skin sensitization - category 1
Skin Sens. 1B	Skin sensitization - category 1B

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training.

Key literature references and sources of data

This SDS was prepared on the basis of sheets of the individual components, literature data, online databases (eg. ECHA, TOXNET, COSING) as well as our knowledge and experience, taking into account current legislation.

Procedures used for the mixture classification according with Regulation 1272/2008/EC as amended

Asp. Tox. 1 H304	calculation method
Skin Corr. 1B H314	calculation method
Skin Sens. 1 H317	calculation method
Eye Dam. 1 H318	calculation method
Aquatic Chronic 2 H411	calculation method

Additional information

Changes:	section: —
SDS issued by:	THETA Consulting Sp. z o.o.

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.