

Fragrance Sugar Pine and Patchouli 00015813

Lemo Fun SRL



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Safety Data Sheet in accordance with Regulation (EC) No 1907/2006 (REACH), Regulation (EC) No 1272/2008 (CLP) and Commission Regulation (EU) No 2020/878 of 18 June 2020.

Version date: 12.09.2025

Print date: 09.03.2026

Field	Details
1.1 Product Identifier	
Mixture identification	Fragrance, flavour, automotive cosmetics, industrial and household chemistry
Trade name	Fragrance Sugar Pine and Patchouli 00015813
Product number	00015813
UFI	9MSD-V16W-7003-5GVQ
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Recommended use	Aromatic ingredient for household chemicals and cosmetics. For use in production only, not for direct consumption.
Uses advised against	Do not use in foodstuffs.
1.3 Details of the supplier of the safety data sheet	
Company	Lemo Fun SRL
Address	Nicolae Licaret 6, Bucharest, Romania
Phone	+40784943113
Email	info@shoplumanari.ro
Website	www.shoplumanari.ro
1.4 Emergency telephone number	UNITED KINGDOM - National Poisons Information Service (24 h service), phone: +44 (0) 844-892-0111 (UK only); FOR OTHER EU COUNTRIES, please consult: http://echa.europa.eu/help/nationalhelp_contact_en.asp

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Product definition: Mixture

H411 — Aquatic Chronic 2

H317 — Skin Sens. 1

H315 — Skin Irrit. 2

H319 — Eye Irrit. 2

2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 (CLP)

Signal word: Warning

Hazard statements:

H411 — Toxic to aquatic life with long lasting effects.

H317 — May cause an allergic skin reaction.

H315 — Causes skin irritation.

H319 — Causes serious eye irritation.

Precautionary statements (Prevention and Response):

P273 — Avoid release to the environment.

P261 — Avoid breathing dust/fumes/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.

P264 — Wash thoroughly after handling.

P302+P352 — IF ON SKIN: Wash with plenty of soap and water.

P333+P313 — If skin irritation or rash occurs: Get medical advice/attention.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Mixture of natural, nature-identical and synthetic aroma products.

3.2 Mixture:

Mixture of natural and synthetic aromatic substances.

3.2 Hazardous ingredients:

Ingredient	%	CAS No. / EC No.	Index No. / REACH No.	Classification — Regulation (EC) No 1272/2008 (CLP)
Benzyl Benzoate (IUPAC: BENZYL BENZOATE)	<60%	CAS No. 120-51-4 EC No. 204-402-9	Index No. — REACH No. 01-2119976371-33-xxxx	Aquatic Chronic 2: H411 Acute Tox. 4 ORAL: H302
Cedarwood Oil TEXAS 100% pure and natural (IUPAC: CEDARWOOD OIL)	<4%	CAS No. 68990-83-0 EC No. 294-461-7	Index No. — REACH No. 01-2120753603-56-xxxx	Aquatic Chronic 1: H410 Skin Sens. 1B: H317 Skin Irrit. 2: H315 Aquatic Acute 1: H400 Asp. Tox. 1: H304 M=1
Iso E Super (IUPAC: 1-(1,2,3,4,5,6,7,8-OCTAHYDRO-2,3,8,8-TETRAMETHYL-2-NA PHTHYL)ETHAN-1-ONE)	<3,2%	CAS No. 54464-57-2 EC No. 259-174-3	Index No. — REACH No. —	Aquatic Chronic 2: H411 Skin Sens. 1: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319
Pinene Alpha (VIP) (IUPAC: 2,6,6-TRIMETHYLBICYCLO [3.1.1]HEPT-2-ENE)	<2,8%	CAS No. 80-56-8 / 7785-26-4 EC No. 201-291-9	Index No. — REACH No. 01-2119519223-49-0001	Aquatic Chronic 1: H410 Acute Tox. 4 ORAL: H302 Flam. Liq. 3: H226 Skin Sens. 1B: H317 Skin Irrit. 2: H315 Aquatic Acute 1: H400 Asp. Tox. 1: H304 M Chr=1
Bacdanol (Srandanol) (IUPAC: (E)-2-ETHYL-4-(2,2,3-TRIMETHYL-1-CYCLOPE NT-3-ENYL)BUT-2-EN-1-OL)	<2%	CAS No. 28219-61-6 / 106185-75-5 EC No. 248-908-8	Index No. — REACH No. —	Aquatic Chronic 1: H410 Eye Irrit. 2: H319 M Chr=1
Ethyl Maltol (IUPAC: 2-ETH YL-3-HYDROXY-4H-PYRAN -4-ONE)	<2%	CAS No. 4940-11-8 EC No. 225-582-5	Index No. — REACH No. 01-2120758795-36-xxxx	Acute Tox. 4 ORAL: H302
Methyl Ionone Gamma (Gamma-Methylionone-Isonaline 70) (IUPAC: (3E)-3-METHYL -4-(2,6,6-TRIMETHYLCYCL OHEX-2-EN-1-YL)BUT-3-EN -2-ONE)	<1,2%	CAS No. 127-51-5 EC No. 204-846-3	Index No. — REACH No. 01-2119471851-35-xxxx	Aquatic Chronic 2: H411 Skin Irrit. 2: H315 Eye Irrit. 2: H319
Macrolide (IUPAC: 1-OXAC YCLOHEXADECAN-2-ONE)	<1,2%	CAS No. 106-02-5 EC No. 203-354-6	Index No. — REACH No. 01-2119987323-31-xxxx	Aquatic Chronic 2: H411 Skin Sens. 1B: H317

Ingredient	%	CAS No. / EC No.	Index No. / REACH No.	Classification — Regulation (EC) No 1272/2008 (CLP)
Orange Oil 100% pure and natural (IUPAC: (2Z,6E)-2,6-DIMETHYL-10-METHYLIDE NEDODECA-2,6,11-TRIEN A L)	<1,2%	CAS No. 8008-57-9 / 8028-48-6 EC No. 232-433-8	Index No. — REACH No. 01-2119493353-35-xxxx	Aquatic Chronic 2: H411 Skin Sens. 1: H317 Flam. Liq. 3: H226 Skin Irrit. 2: H315 Asp. Tox. 1: H304
Ethyl Vanillin (IUPAC: 3-ETH OXY-4-HYDROXYBENZAL DEHYDE)	<1,2%	CAS No. 121-32-4 EC No. 204-464-7	Index No. — REACH No. —	Eye Irrit. 2: H319
Juniper Berry Oil (IUPAC: JUNIPER BERRY OIL)	<0,8%	CAS No. 8002-68-4 / 84603-69-0 EC No. 283-268-3	Index No. — REACH No. 01-2120110803-69-xxxx	Skin Sens. 1: H317 Flam. Liq. 3: H226 Skin Irrit. 2: H315 Eye Irrit. 2: H319 Asp. Tox. 1: H304
Pinene Beta (IUPAC: 6,6-DI METHYL-2-METHYLENEBI CYCLO[3.1.1]HEPTANE)	<0,8%	CAS No. 127-91-3 EC No. 204-872-5	Index No. — REACH No. 01-2119519230-54-xxxx	Aquatic Chronic 1: H410 Flam. Liq. 3: H226 Skin Sens. 1B: H317 Skin Irrit. 2: H315 Aquatic Acute 1: H400 Asp. Tox. 1: H304 M=1
D-Limonene (IUPAC: (4R)-1-METHYL-4-(PROP-1-EN-2-YL)CYCLOHEX-1-ENE)	<0,8%	CAS No. 5989-27-5 / 8028-48-6 EC No. 227-813-5	Index No. 601-096-00-2 REACH No. 01-2119529223-47-xxxx	Flam. Liq. 3: H226 Skin Sens. 1B: H317 Skin Irrit. 2: H315 Aquatic Acute 1: H400 Asp. Tox. 1: H304 Aquatic Chronic 3: H412 M=1
Clary Sage Oil 100% pure and natural (IUPAC: CLARY SAGE ESSENTIAL OIL)	<0,8%	CAS No. 8016-63-5 EC No. 283-911-8	Index No. — REACH No. 01-2120757185-50-xxxx	Skin Sens. 1B: H317 Aquatic Chronic 3: H412
Ethanol (IUPAC: ETHANOL)	<0,72%	CAS No. 64-17-5 EC No. 200-578-6	Index No. — REACH No. —	Acute Tox. 4 ORAL: H302 Skin Irrit. 2: H315 Eye Irrit. 2: H319 Flam. Liq. 2: H225 STOT SE 1: H370 STOT SE 2: H371
Hexyl Cinnamic Aldehyde Alpha (IUPAC: (2E)-2-(PHE NYLMETHYLIDENE)OCTA NAL)	<0,6%	CAS No. 101-86-0 / 165184-98-5 EC No. 202-983-3	Index No. — REACH No. 01-2119533092-50-xxxx	Aquatic Chronic 2: H411 Skin Sens. 1: H317 Aquatic Acute 1: H400 M=1 M Chr=1
Lime Oil (IUPAC: CITRUS AURANTIFOLIA EXT.)	<0,4%	CAS No. 8008-26-2 / 90063-52-8 EC No. 290-010-3	Index No. — REACH No. 01-2120138646-51-xxxx	Aquatic Chronic 2: H411 Skin Sens. 1: H317 Flam. Liq. 3: H226 Skin Irrit. 2: H315 Asp. Tox. 1: H304
Helional (Helioven) (IUPAC: 3-(2H-1,3-BENZODIOXOL-5 -YL)-2-METHYLPROPANAL)	<0,34%	CAS No. 1205-17-0 EC No. 214-881-6	Index No. — REACH No. 01-2120740119-58-xxxx	Aquatic Chronic 2: H411 Skin Sens. 1B: H317 Repr. 2: H361
Ethyl Linalool (IUPAC: (6E)- 3,7-DIMETHYLNONA-1,6-DI EN-3-OL)	<0,28%	CAS No. 10339-55-6 EC No. 233-732-6	Index No. — REACH No. 01-2119969272-32-xxxx	Skin Sens. 1B: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319
Trivertal (IUPAC: 1,2-DIMET HYL CYCLOHEX-3-ENE-1-C ARBALDEHYDE)	<0,2%	CAS No. 27939-60-2 / 68039-49-6 EC No. 248-742-6	Index No. — REACH No. 01-2120766006-57-xxxx	Aquatic Chronic 2: H411 Skin Sens. 1B: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319
Koavone	<0,2%	CAS No. 81786-73-4 EC No. —	Index No. — REACH No. —	Aquatic Chronic 2: H411 Skin Sens. 1B: H317
Lemon Oil 100% pure and natural (IUPAC: (R)-4-ISOP ROPENYL-1-METHYL CYCL OHEXENE)	<0,2%	CAS No. 8008-56-8 / 84929-31-7 EC No. 284-515-8	Index No. — REACH No. 01-2119495512-35-xxxx	Aquatic Chronic 2: H411 Skin Sens. 1: H317 Flam. Liq. 3: H226 Skin Irrit. 2: H315 Asp. Tox. 1: H304
Veramoss (IUPAC: METHYL 2,4-DIHYDROXY-3,6-DIMET HYL BENZOATE)	<0,2%	CAS No. 4707-47-5 EC No. 225-193-0	Index No. — REACH No. 01-2120762759-36-xxxx	Skin Sens. 1B: H317
Anisyl Acetate (IUPAC: (4-M ETHOXYPHENYL)METHYL ACETATE)	<0,16%	CAS No. 104-21-2 EC No. 203-185-8	Index No. — REACH No. 01-2120104878-50-xxxx	Skin Sens. 1B: H317
Herbanate	<0,12%	CAS No. 116126-82-0 EC No. 639-062-4	Index No. — REACH No. —	Aquatic Chronic 2: H411 Skin Sens. 1A: H317
Caryophyllene Beta-95% (IUPAC: (1R,4E,9S)-4,11,11 -TRIMETHYL-8-METHYLID ENEBICYCLO[7.2.0]UNDEC -4-ENE)	<0,12%	CAS No. 87-44-5 / 13877-93-5 EC No. 201-746-1	Index No. — REACH No. 01-2120745237-53-xxxx	Skin Sens. 1B: H317 Asp. Tox. 1: H304 Aquatic Chronic 3: H412

Ingredient	%	CAS No. / EC No.	Index No. / REACH No.	Classification — Regulation (EC) No 1272/2008 (CLP)
Isoamyl Acetate (IUPAC: 3-METHYLBUTYL ACETATE)	<0,04%	CAS No. 123-92-2 EC No. 204-662-3	Index No. — REACH No. 01-2119548408-32-xxxx	Flam. Liq. 3: H226

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation:

Remove the affected person immediately to fresh air. Seek medical attention if symptoms persist.

Ingestion:

Rinse mouth thoroughly with water. Give plenty of water to drink. Seek medical attention immediately.

Skin contact:

Remove any contact lenses and open eyelids wide. Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention if symptoms persist.

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

Persons with asthma, eczema or skin problems should avoid contact with this product, including via the skin. For further information on health hazards, see Section 11.

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

Notes for the physician: No special recommendations.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Foam, carbon dioxide or dry powder.

Unsuitable extinguishing media: Water.

5.2 Special hazards arising from the substance or mixture:

Special hazards: Toxic gases or vapours.

5.3 Advice for firefighters:

Protective measures during firefighting: Containers near fire should be removed or cooled with water.

Special protective equipment for firefighters: Wear a self-contained positive-pressure breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Wear appropriate protective equipment including gloves, safety goggles/face shield, respiratory mask, boots, clothing or apron as required. Smoking, sparks, flames or other sources of ignition near spilled liquids are prohibited.

6.2 Environmental precautions:

Do not allow to enter drains, waterways or the ground.

6.4 Reference to other sections: See Sections 7, 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin, eyes and clothing.

Do not eat, drink or smoke during use of this product. Wash hands at the end of each work shift and before eating, smoking and using the toilet.

7.2 Conditions for safe storage, including any incompatibilities:

Store in the tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flames. Protect from frost and direct sunlight.

7.3 Specific end use(s): Not specified.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Ingredient	CAS No.	TWA, 8 hours
Isoamyl Acetate (IUPAC: 3-METHYLBUTYL ACETATE)	123-92-2	TWA= 270* mg/m ³
Ethanol (IUPAC: ETHANOL)	64-17-5	TWA= 1 000* mg/m ³

Control measure	Details
Further information	Information valid at the time of review of the safety data sheet.
8.2 Exposure controls	
Technical measures	The usual precautionary measures for handling chemicals must be observed. See Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work.
Hygiene measures	Do not eat, drink or smoke at work.
General protective and hygiene measures	Avoid contact with eyes. Wash hands before breaks and at the end of the shift. Provide a skin protection plan.
Respiratory protection	Avoid excessive inhalation of concentrated vapours. Ensure adequate ventilation. When exposed to high concentrations, appropriate certified respiratory protective equipment must be worn. Suitable face mask in accordance with EN 140.
Body protection	Protective clothing. Safety showers should be available in the immediate vicinity of possible exposure locations. Wear appropriate protective clothing, overalls or suits and similar boots in accordance with EN 365/367.
Eye protection	In case of risk of possible eye contact, wear appropriate safety goggles with side protection in accordance with EN 166. Emergency eyewash stations should be available in the immediate vicinity of possible exposure locations.
Hygiene measures	No special hygiene measures are recommended, but good personal hygiene practices should always be observed when working with chemical products.
Hand protection	Chemical protective gloves in accordance with DIN EN 374 with CE marking. Suitable material: Nitrile. 0.13 mm. Permeation breakthrough time: 1 hour. Check protective gloves after each use for damage such as holes, cuts or tears. Do not wear protective gloves longer than necessary. After use, apply skin cleansing agents and skin cosmetics. Gloves for mechanical protection do not provide protection against chemicals.
Risk management measures	Operators must be adequately trained. The workplace must be inspected regularly by qualified personnel, e.g. the safety officer.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Property	Value
Appearance	Homogeneous transparent liquid; opalescence is allowed.
Auto-ignition temperature	No self-ignition
Boiling point	No data
Colour	Colourless to brown
Decomposition temperature	No data available
Density, 20 °C	0.9 – 1.6 g/cm ³
Flash point	> 61 °C
Freezing point	No data available
Kinematic viscosity	No data available
Upper and lower explosion limits	Not explosive
Melting point/range	< 0 °C
Odour	Fragrance description
Partition coefficient n-octanol/water (log mean)	No data available
pH	No data available

Property	Value
Relative vapour density	No data available
Solubility in alcohol	Soluble
Solubility in water	Limited solubility
Vapour pressure	No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

The product is stable and relatively inert under normal conditions of use, storage and transport.

10.2 Chemical stability:

The product is stable under the conditions of use given in Section 7.

10.3 Possibility of hazardous reactions:

No information on hazardous reactions under normal conditions of use.

10.4 Conditions to avoid:

Contact with incompatible materials.

10.5 Incompatible materials:

Strong acids, strong bases, strong oxidising agents.

10.6 Hazardous decomposition products:

No decomposition products if stored and handled as prescribed. In case of fire, hazardous gases may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

INHALATION

Acute toxicity: No data.

Corrosion/irritation: Not classified — on the basis of available data, the classification criteria are not met.

Sensitisation: Does not contain substances classified as inhalation allergens. Not classified — on the basis of available data, the classification criteria are not met.

Carcinogenicity: Does not contain carcinogenic substances. Not classified — on the basis of available data, the classification criteria are not met.

Mutagenicity: Does not contain mutagenic substances. Not classified — on the basis of available data, the classification criteria are not met.

SKIN CONTACT

Acute toxicity: No data.

Corrosion/irritation: Not classified — on the basis of available data, the classification criteria are not met.

Sensitisation: Does not contain substances classified as inhalation allergens. Not classified — on the basis of available data, the classification criteria are not met.

Carcinogenicity: Does not contain carcinogenic substances. Not classified — on the basis of available data, the classification criteria are not met.

Mutagenicity: Does not contain mutagenic substances. Not classified — on the basis of available data, the classification criteria are not met.

EYE CONTACT

Corrosion/irritation: No data.

AFTER INGESTION

Acute toxicity: No data.

Corrosion/irritation: May cause nausea, vomiting and diarrhoea.

Sensitisation: Does not contain carcinogenic substances. Not classified — on the basis of available data, the classification criteria are not met.

Carcinogenicity: Does not contain carcinogenic substances. Not classified — on the basis of available data, the classification criteria are not met.

Mutagenicity: Does not contain mutagenic substances. Not classified — on the basis of available data, the classification criteria are not met.

Reproductive toxicity: Reproductive toxicity not expected. Not classified — on the basis of available data, the classification criteria are not met. **Fertility:** Not classified — on the basis of available data, the classification criteria are not met.

11.2 Primary irritation effect: Skin irritation, Hazard Category 2

11.2.1 Endocrine disrupting properties: None

11.3 Sensitisation: Classified as Sensitisation — Skin, hazard category 1.

11.4 Chronic effects: Classified as Hazardous to the aquatic environment — Chronic Category 2.

11.5 Target organs: Classified as having no classifiable toxicity.

11.6 Carcinogenicity: Classified as having no classifiable toxicity.

11.7 Mutagenicity: Classified as having no classifiable toxicity.

11.8 Reproductive toxicity: Classified as having no classifiable toxicity.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

No ecotoxicological studies have been conducted on this product.

Ecotoxicity — Toxic to aquatic organisms:

Toxicity of components — AQUATIC TOXICITY:

Substance	CAS No.	Test	Result
Benzyl Benzoate (IUPAC: BENZYL BENZOATE)	120-51-4	LC50/48 H (Aquatic invertebrates)	7.77 mg/l
Benzyl Benzoate (IUPAC: BENZYL BENZOATE)	120-51-4	EC50/48 H (Aquatic invertebrates)	3.09 mg/l
Benzyl Benzoate (IUPAC: BENZYL BENZOATE)	120-51-4	LC50/24 H (Aquatic invertebrates)	11 mg/l
Benzyl Benzoate (IUPAC: BENZYL BENZOATE)	120-51-4	EC50/72 H (Aquatic algae and cyanobacteria)	311
Benzyl Benzoate (IUPAC: BENZYL BENZOATE)	120-51-4	LC50/96 H (Fish)	2.32 mg/l
Benzyl Benzoate (IUPAC: BENZYL BENZOATE)	120-51-4	EC50/24 H (Fish)	4.26 mg/l
Pinene Alpha (VIP) (IUPAC: 2,6,6-T RIMETHYLBICYCLO[3.1.1]HEPT-2-ENE)	80-56-8 / 7785-26-4	EC50/48 H (Aquatic invertebrates)	475
Pinene Alpha (VIP) (IUPAC: 2,6,6-T RIMETHYLBICYCLO[3.1.1]HEPT-2-ENE)	80-56-8 / 7785-26-4	LC50/24 H (Daphnia magna)	1.83 mg/l
Pinene Alpha (VIP) (IUPAC: 2,6,6-T RIMETHYLBICYCLO[3.1.1]HEPT-2-ENE)	80-56-8 / 7785-26-4	LC50/96 H (Fish)	303
Ethyl Maltol (IUPAC: 2-ETHYL-3-HY DROXY-4H-PYRAN-4-ONE)	4940-11-8	EC50/48 H (Aquatic invertebrates)	27 mg/l
Ethyl Maltol (IUPAC: 2-ETHYL-3-HY DROXY-4H-PYRAN-4-ONE)	4940-11-8	LC50/72 H (Algae)	7.2 mg/l
Ethyl Maltol (IUPAC: 2-ETHYL-3-HY DROXY-4H-PYRAN-4-ONE)	4940-11-8	LC50/96 H (Fish)	85 mg/l
Methyl Ionone Gamma (Gamma-Methylinone-Isonaline 70)	127-51-5	EC50/48 H (Aquatic invertebrates)	3.7 mg/l
Methyl Ionone Gamma (Gamma-Methylinone-Isonaline 70)	127-51-5	EC50/72 H (Aquatic algae and cyanobacteria)	9.42 mg/l

Substance	CAS No.	Test	Result
Methyl Ionone Gamma (Gamma-Methylionone-Isonaline 70)	127-51-5	LC50/96 H (Fish)	2.3 mg/l
Macrolide (IUPAC: 1-OXACYCLOH EXADECAN-2-ONE)	106-02-5	EC50/48 H (Aquatic invertebrates)	1 780
Macrolide (IUPAC: 1-OXACYCLOH EXADECAN-2-ONE)	106-02-5	EC50/24 H (Aquatic invertebrates)	2 870
Macrolide (IUPAC: 1-OXACYCLOH EXADECAN-2-ONE)	106-02-5	EC50/72 H (Aquatic algae and cyanobacteria)	470
Macrolide (IUPAC: 1-OXACYCLOH EXADECAN-2-ONE)	106-02-5	LC50/96 H (Fish)	2 mg/l
Macrolide (IUPAC: 1-OXACYCLOH EXADECAN-2-ONE)	106-02-5	LC50/72 H (Fish)	2 mg/l
Macrolide (IUPAC: 1-OXACYCLOH EXADECAN-2-ONE)	106-02-5	LC50/48 H (Fish)	2 mg/l
Macrolide (IUPAC: 1-OXACYCLOH EXADECAN-2-ONE)	106-02-5	LC50/24 H (Fish)	2 mg/l
Ethyl Vanillin (IUPAC: 3-ETHOXY-4-HYDROXYBENZALDEHYDE)	121-32-4	EC50/48 H (Aquatic invertebrates)	26.2 mg/l
Ethyl Vanillin (IUPAC: 3-ETHOXY-4-HYDROXYBENZALDEHYDE)	121-32-4	EC50/21 days (Aquatic invertebrates)	63 mg/l
Ethyl Vanillin (IUPAC: 3-ETHOXY-4-HYDROXYBENZALDEHYDE)	121-32-4	EC50/72 H (Aquatic algae and cyanobacteria)	100 mg/l
Ethyl Vanillin (IUPAC: 3-ETHOXY-4-HYDROXYBENZALDEHYDE)	121-32-4	LC50/96 H (Fish)	87.6 mg/l
Pinene Beta (IUPAC: 6,6-DIMETHY L-2-METHYLENEBICYCLO[3.1.1]H EPTANE)	127-91-3	LC50/48 H (Aquatic invertebrates)	1.09 mg/l
Pinene Beta (IUPAC: 6,6-DIMETHY L-2-METHYLENEBICYCLO[3.1.1]H EPTANE)	127-91-3	EC50/48 H (Aquatic invertebrates)	1.25 mg/l
Pinene Beta (IUPAC: 6,6-DIMETHY L-2-METHYLENEBICYCLO[3.1.1]H EPTANE)	127-91-3	LC50/72 H (Algae)	700
Pinene Beta (IUPAC: 6,6-DIMETHY L-2-METHYLENEBICYCLO[3.1.1]H EPTANE)	127-91-3	EC50/72 H (Algae)	700
Pinene Beta (IUPAC: 6,6-DIMETHY L-2-METHYLENEBICYCLO[3.1.1]H EPTANE)	127-91-3	LC50/48 H (Algae)	826
Pinene Beta (IUPAC: 6,6-DIMETHY L-2-METHYLENEBICYCLO[3.1.1]H EPTANE)	127-91-3	LC50/96 H (Fish)	591
Pinene Beta (IUPAC: 6,6-DIMETHY L-2-METHYLENEBICYCLO[3.1.1]H EPTANE)	127-91-3	EC50/96 H (Fish)	502
Pinene Beta (IUPAC: 6,6-DIMETHY L-2-METHYLENEBICYCLO[3.1.1]H EPTANE)	127-91-3	LC50/96 H (Fish Pimephales promelas)	0.502 mg/l
D-Limonene (IUPAC: (4R)-1-METH YL-4-(PROP-1-EN-2-YL)CYCLOHE X-1-ENE)	5989-27-5 / 8028-48-6	EC50/48 H (Aquatic invertebrates)	408.5 mg/l
D-Limonene (IUPAC: (4R)-1-METH YL-4-(PROP-1-EN-2-YL)CYCLOHE X-1-ENE)	5989-27-5 / 8028-48-6	EC50/48 H (Aquatic invertebrates)	510 mg/l
D-Limonene (IUPAC: (4R)-1-METH YL-4-(PROP-1-EN-2-YL)CYCLOHE X-1-ENE)	5989-27-5 / 8028-48-6	EC50/24 H (Aquatic invertebrates)	840 mg/l
D-Limonene (IUPAC: (4R)-1-METH YL-4-(PROP-1-EN-2-YL)CYCLOHE X-1-ENE)	5989-27-5 / 8028-48-6	EC50/21 days (Aquatic invertebrates)	188 mg/l
D-Limonene (IUPAC: (4R)-1-METH YL-4-(PROP-1-EN-2-YL)CYCLOHE X-1-ENE)	5989-27-5 / 8028-48-6	EC50/72 H (Aquatic algae and cyanobacteria)	320 mg/l
D-Limonene (IUPAC: (4R)-1-METH YL-4-(PROP-1-EN-2-YL)CYCLOHE X-1-ENE)	5989-27-5 / 8028-48-6	EC50/48 H (Aquatic algae and cyanobacteria)	250 mg/l

Substance	CAS No.	Test	Result
D-Limonene (IUPAC: (4R)-1-METHYL-4-(PROP-1-EN-2-YL)CYCLOHEX-1-ENE)	5989-27-5 / 8028-48-6	EC50/48 H (Algae)	250
D-Limonene (IUPAC: (4R)-1-METHYL-4-(PROP-1-EN-2-YL)CYCLOHEX-1-ENE)	5989-27-5 / 8028-48-6	LC50/96 H (Fish)	590 mg/l
D-Limonene (IUPAC: (4R)-1-METHYL-4-(PROP-1-EN-2-YL)CYCLOHEX-1-ENE)	5989-27-5 / 8028-48-6	EC50/96 H (Fish)	695
D-Limonene (IUPAC: (4R)-1-METHYL-4-(PROP-1-EN-2-YL)CYCLOHEX-1-ENE)	5989-27-5 / 8028-48-6	LC50/96 H (Fish)	720 mg/l
D-Limonene (IUPAC: (4R)-1-METHYL-4-(PROP-1-EN-2-YL)CYCLOHEX-1-CNE)	5989-27-5 / 8028-48-6	EC50/96 H (Fish)	702 mg/l
Ethanol (IUPAC: ETHANOL)	64-17-5	LC50/48 H (Aquatic invertebrates)	9.248 g/l
Ethanol (IUPAC: ETHANOL)	64-17-5	EC50/48 H (Aquatic invertebrates)	10 g/l
Ethanol (IUPAC: ETHANOL)	64-17-5	EC50/24 H (Aquatic invertebrates)	10 g/l
Ethanol (IUPAC: ETHANOL)	64-17-5	EC50/72 H (Aquatic algae and cyanobacteria)	275 mg/l
Ethanol (IUPAC: ETHANOL)	64-17-5	EC50/96 H (Aquatic algae and cyanobacteria)	22 000 mg/l
Ethanol (IUPAC: ETHANOL)	64-17-5	LC50/96 H (Fish)	15.4 g/l
Ethanol (IUPAC: ETHANOL)	64-17-5	EC50/96 H (Fish)	12.9 g/l
Hexyl Cinnamic Aldehyde Alpha (IUPAC: (2E)-2-(PHENYLMETHYLDENE)OCTANAL)	101-86-0 / 165184-98-5	EC50/48 H (Aquatic invertebrates)	475
Hexyl Cinnamic Aldehyde Alpha (IUPAC: (2E)-2-(PHENYLMETHYLDENE)OCTANAL)	101-86-0 / 165184-98-5	EC50/72 H (Algae)	65
Hexyl Cinnamic Aldehyde Alpha (IUPAC: (2E)-2-(PHENYLMETHYLDENE)OCTANAL)	101-86-0 / 165184-98-5	LC50/96 H (Fish)	1.7 mg/l
Helional (Helioven) (IUPAC: 3-(2H-1,3-BENZODIOXOL-5-YL)-2-METHYLPROPANAL)	1205-17-0	EC50/48 H (Aquatic invertebrates)	8.3 mg/l
Helional (Helioven) (IUPAC: 3-(2H-1,3-BENZODIOXOL-5-YL)-2-METHYLPROPANAL)	1205-17-0	EC50/24 H (Aquatic invertebrates)	17 mg/l
Helional (Helioven) (IUPAC: 3-(2H-1,3-BENZODIOXOL-5-YL)-2-METHYLPROPANAL)	1205-17-0	EC50/72 H (Aquatic algae and cyanobacteria)	14 mg/l
Ethyl Linalool (IUPAC: (6E)-3,7-DIMETHYLNONA-1,6-DIEN-3-OL)	10339-55-6	EC50/48 H (Aquatic invertebrates)	23 mg/l
Ethyl Linalool (IUPAC: (6E)-3,7-DIMETHYLNONA-1,6-DIEN-3-OL)	10339-55-6	EC50/24 H (Aquatic invertebrates)	59 mg/l
Ethyl Linalool (IUPAC: (6E)-3,7-DIMETHYLNONA-1,6-DIEN-3-OL)	10339-55-6	EC50/72 H (Aquatic algae and cyanobacteria)	25.1 mg/l
Ethyl Linalool (IUPAC: (6E)-3,7-DIMETHYLNONA-1,6-DIEN-3-OL)	10339-55-6	LC50/96 H (Fish)	24 mg/l
Ethyl Linalool (IUPAC: (6E)-3,7-DIMETHYLNONA-1,6-DIEN-3-OL)	10339-55-6	LC50/48 H (Fish)	24 mg/l
Ethyl Linalool (IUPAC: (6E)-3,7-DIMETHYLNONA-1,6-DIEN-3-OL)	10339-55-6	LC50/3 H (Fish)	28 mg/l
Ethyl Linalool (IUPAC: (6E)-3,7-DIMETHYLNONA-1,6-DIEN-3-OL)	10339-55-6	LC50/24 H (Fish)	24 mg/l
Ethyl Linalool (IUPAC: (6E)-3,7-DIMETHYLNONA-1,6-DIEN-3-OL)	10339-55-6	LC50/72 H (Fish)	24 mg/l
Trivertal (IUPAC: 1,2-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE)	27939-60-2 / 68039-49-6	EC50/48 H (Aquatic invertebrates)	7.74 mg/l
Trivertal (IUPAC: 1,2-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE)	27939-60-2 / 68039-49-6	EC50/72 H (Algae)	22.8 mg/l

Substance	CAS No.	Test	Result
Trivertal (IUPAC: 1,2-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE)	27939-60-2 / 68039-49-6	LC50/96 H (Fish)	15 mg/l
Veramoss (IUPAC: METHYL 2,4-DIHYDROXY-3,6-DIMETHYLBENZOATE)	4707-47-5	EC50/48 H (Aquatic invertebrates)	9.3 mg/l
Veramoss (IUPAC: METHYL 2,4-DIHYDROXY-3,6-DIMETHYLBENZOATE)	4707-47-5	EC50/96 H (Aquatic algae and cyanobacteria)	3.3 mg/l
Veramoss (IUPAC: METHYL 2,4-DIHYDROXY-3,6-DIMETHYLBENZOATE)	4707-47-5	LC50/96 H (Fish)	5.2 mg/l
Anisyl Acetate (IUPAC: (4-METHOXYPHENYL)METHYL ACETATE)	104-21-2	EC50/48 H (Aquatic invertebrates)	31 mg/l
Anisyl Acetate (IUPAC: (4-METHOXYPHENYL)METHYL ACETATE)	104-21-2	EC50/72 H (Aquatic algae and cyanobacteria)	59.9 mg/l
Anisyl Acetate (IUPAC: (4-METHOXYPHENYL)METHYL ACETATE)	104-21-2	LC50/96 H (Fish)	13.1 mg/l
Caryophyllene Beta-95% (IUPAC: (1R,4E,9S)-4,11,11-TRIMETHYL-8-METHYLIDENE BICYCLO[7.2.0]UNDEC-4-ENE)	87-44-5 / 13877-93-5	EC50/48 H (Aquatic invertebrates)	170
Caryophyllene Beta-95% (IUPAC: (1R,4E,9S)-4,11,11-TRIMETHYL-8-METHYLIDENE BICYCLO[7.2.0]UNDEC-4-ENE)	87-44-5 / 13877-93-5	EC50/72 H (Algae)	33
Isoamyl Acetate (IUPAC: 3-METHYLBUTYL ACETATE)	123-92-2	EC50/48 H (Aquatic invertebrates)	42 mg/l
Isoamyl Acetate (IUPAC: 3-METHYLBUTYL ACETATE)	123-92-2	LC50/96 H (Fish)	34 mg/l

Property	Details
12.2 Persistence and degradability	May cause long-term adverse effects in the aquatic environment.
Assessment of biodegradation and elimination	No data.
12.3 Bioaccumulative potential	No further relevant information available. Low bioaccumulation potential: logPow<4 (logPow calculated = 0)
12.4 Mobility in soil	No data.
General notes	
12.5 Results of PBT and vPvB assessment	This mixture does not contain any substances that meet the PBT or vPvB criteria of REACH, Annex XIII.
12.6 Endocrine disrupting properties	None
12.7 Other adverse effects	Greenhouse potential: Cannot contribute to the greenhouse effect.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Dispose of the product in accordance with local and national regulations.

Product residues: Do not pour residues into the municipal sewer system.

Additional warning: None.

European Waste Catalogue: Dispose of in accordance with Directives 2008/98/EC, 94/62/EC, 2014/955/EU and 2008/98/EC.

Contaminated packaging: Hand over packaging remaining after use to the person responsible for the disposal of hazardous waste.

Recommendation: Avoid release to the environment.

EWC Code	Description
07	Wastes from organic chemical processes:
07 07	Wastes from the MFSU of fine chemicals and chemical products, not otherwise specified

EWC Code	Description
07 07 99	Wastes not otherwise specified
15 02 02*	Absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances

SECTION 14: TRANSPORT INFORMATION

Field	Details
14.1 UN number	UN 3082
14.2 UN proper shipping name	UN 3082 Environmentally hazardous substance, liquid, N.O.S. (Allylheptanoate, 7-Acetyl-1,1,3,4,4,6-Hexamethyltetralin)
14.3 Transport hazard class(es): ADR, IATA, IMDG class	9
Hazard label	9
14.4 Packing group: ADR, IATA, IMDG	III
14.5 Environmental hazards: Marine pollutant	Yes
14.6 Special precautions for user	Read the safety data sheet and emergency procedures before handling.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable. Packaged liquids are not considered bulk cargo.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific to the substance or mixture:

REGULATION (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 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.

DIRECTIVE 2006/11/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 February 2006 on pollution caused by certain dangerous substances discharged into the aquatic environment of the Community.

REGULATION (EC) No 1272/2008 (CLP) 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.

Information on use restrictions:

Observe Directive 94/33/EC on the protection of young people at work.

Observe Directive 92/85/EC on the safety and health of pregnant workers at the workplace.

15.2 Chemical safety assessment: Not applicable.

Full text of classifications, including hazard statements, hazard symbols and hazard notices listed in Section 2 or 3:

Revisions are indicated by a black bar on the left margin.

Abbreviations and acronyms:

PBT: Persistent, Bioaccumulative and Toxic

vPvB: Very Persistent and very Bioaccumulative

EC: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code

LC50: Median (50%) lethal concentration

LD50: Median (50%) lethal dose

EC50: Effective concentration: 50 percent

CLP: Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures

ECHA: European Chemicals Agency, Helsinki (http://echa.europa.eu/home_en.asp)

TWA: Time-Weighted Average

IBC Code: International Bulk Chemical Code

MARPOL: International Convention for the Prevention of Pollution from Ships

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

UN: United Nations

ATE: Acute Toxicity Estimate

SECTION 16: OTHER INFORMATION

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