Fragrance Tobacco 00011747

Lemo Fun SRL



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

1.1. Product Identifier

IDENTIFICATION OF THE MIXTURE:

Fragrance, flavour, automotive cosmetics, industrial and household chemistry

TRADE NAME:

Fragrance Tobacco 00011747

PRODUCT NUMBER:

00011747

UFI Code:

KHH1-W1RS-U00X-JN8M

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

RECOMMENDED USE:

Aromatic ingredient for household chemicals and cosmetics. Intended for manufacturing only, not for direct consumption as such.

USES ADVISED AGAINST:

Do not use in foodstuffs.

1.3. Details of the supplier of the safety data sheet

SUPPLIER:

Lemo Fun SRL

ADDRESS:

Nicolae Licaret 6, Bucharest, Romania

PHONE:

+40784943113

EMAIL:

info@shoplumanari.ro

WEBSITE:

www.shoplumanari.ro

1.4. Emergency telephone number

IN CASE OF POISONING:

LATVIA — State Fire and Rescue Service: (+371) 112; (+371) 113;

National Poisons Information Centre: +371 67042468;

GERMANY — International Emergency Number: +49 180 2273-112.

Transport Emergency Number (24 h service), Phone: +49 621 60-43333;

UNITED KINGDOM — National Poisons Information Service (24-hour service), Phone: +44 (0) 844-892-0111 (UK only);

FRANCE — INRS FRANCE: Phone: +33 (0)1 45 42 59-59.

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 according to Regulation (EC) No. 1272/2008 (CLP)

Product definition: Mixture

Toxic to aquatic life with long-lasting effects — H411

May cause an allergic skin reaction — H317

May cause cancer — H350

Causes skin irritation — H315

Harmful if inhaled — H332

Causes serious eye irritation — H319

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Signal Word: DANGER

Hazard Statements:

H411 — Toxic to aquatic life with long-lasting effects.

H317 — May cause an allergic skin reaction.

H350 — May cause cancer.

H315 — Causes skin irritation.

H332 — Harmful if inhaled.

H319 — Causes serious eye irritation.

Precautionary Statements:

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.

P201 — Obtain special instructions before use.

P202 — Do not handle until all safety precautions have been read and understood.

P264 — Wash thoroughly after handling.

P271 — Use only outdoors or in a well-ventilated area.

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

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

P501 — Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulation.

2.3. Other hazards

No additional hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Mixture of natural, nature-identical and synthetic aromatic substances.

3.2. Mixtures

Mixture of natural and synthetic aromatic ingredients.

Hazardous components:

Ingredient (IUPAC name)	%	CAS No.	EC No.	Index No.	REACH No.	Classification (CLP Reg. (EC) No. 1272/2008)
Benzyl Benzoate (IUPAC: BENZYL BENZOATE)	<70%	120-51-4	204-402-9	—	01-2119976371-33-xxxx	Aquatic Chronic 2: H411 Acute Tox. 4 ORAL: H302 Aquatic Acute 1: H400
Iso E Super (IUPAC: 1-(1,2,3,4,5,6,7,8-OCTAHYDRO-2,3,8,8-TETRAMETHYL-2-NAPHTHYL)ETHAN-1-ONE)	<4.5%	54464-57-2	259-174-3	—	—	Aquatic Chronic 2: H411 Skin Sens. 1: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319
Ethyl Vanillin (IUPAC: 3-ETHOXY-4-HYDROXYBENZALDEHYDE)	<2.4%	121-32-4	204-464-7	—	—	Eye Irrit. 2: H319
Bacdanol (Sandranol) (IUPAC: (E)-2-ETHYL-4-(2,2,3-TRIMETHYL-1-CYCLOPENT-3-ENYL)BUT-2-EN-1-OL)	<1.8%	28219-61-6 / 106185-75-5	248-908-8	—	—	Aquatic Chronic 1: H410 (M Chr=1) Eye Irrit. 2: H319
Linalool (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-OL)	<1.51%	78-70-6	201-134-4	603-235-00-2	01-2119474016-42-xxxx	Skin Sens. 1B: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319
Eugenol (IUPAC: 2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL)	<1.5%	97-53-0	202-589-1	—	01-2119971802-33-xxxx	Skin Sens. 1B: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319 Asp. Tox. 1: H304
Anethol (IUPAC: 1-METHOXY-4-[(1E)-PROP-1-EN-1-YL]BENZENE)	<1.5%	4180-23-8	224-052-0	—	01-2119979097-22-xxxx	Skin Sens. 1: H317 Aquatic Chronic 3: H412
Guaiacwood Acetate (IUPAC: BULNESIA SARMIENTI, EXT., ACETATE)	<1.05%	61789-17-1 / 94333-88-7 / 613-70-7	305-067-2	—	01-2120746528-45-xxxx	Aquatic Chronic 1: H410 Skin Sens. 1B: H317 Skin Irrit. 2: H315 Aquatic Acute 1: H400 (M=1)
Cedarwood Oil TEXAS 100% pure and natural (IUPAC: CEDARWOOD OIL)	<0.9%	68990-83-0	294-461-7	—	01-2120753603-56-xxxx	Aquatic Chronic 1: H410 Skin Sens. 1B: H317 Skin Irrit. 2: H315 Aquatic Acute 1: H400 (M=1) Asp. Tox. 1: H304
Damascone Alpha (IUPAC: (2E)-1-(2,6,6-TRIMETHYLCYCLOHEX-2-EN-1-YL)BUT-2-EN-1-ONE)	<0.6%	24720-09-0	246-430-4	—	01-2120105799-47-xxxx	Aquatic Chronic 2: H411 Acute Tox. 4 ORAL: H302 Skin Sens. 1B: H317
Linalyl Acetate (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-YL ACETATE)	<0.6%	115-95-7	204-116-4	—	01-2119454789-19-xxxx	Skin Sens. 1B: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319

Ingredient (IUPAC name)	%	CAS No.	EC No.	Index No.	REACH No.	Classification (CLP Reg. (EC) No. 1272/2008)
Lime Oil (IUPAC: CITRUS AURANTIFOLIA EXT.)	<0.45%	8008-26-2	290-010-3	—	01-2120138646-51-xxxx	Aquatic Chronic 2: H411 Skin Sens. 1: H317 Flam. Liq. 3: H226 Skin Irrit. 2: H315 Asp. Tox. 1: H304
Nuez Moscada Oil (IUPAC: ESSENTIAL OIL EXTRACT OF MYRISTICA FRAGRANS (MYRISTICACEAE) SEED)	<0.45%	8008-45-5 / 84082-68-8	282-013-3	—	01-2119486669-15-xxxx	Aquatic Chronic 2: H411 Skin Sens. 1: H317 Flam. Liq. 3: H226 Asp. Tox. 1: H304 Muta. 2: H341 Carc. 1B: H350 (M Chr=1)
Caryophyllene Beta-95% (IUPAC: (1R,4E,9S)-4,11,11-TRIMETHYL-8-METHYLIDENEBICYCLO[7.2.0]UNDEC-4-ENE)	<0.3%	87-44-5 / 13877-93-5	201-746-1	—	01-2120745237-53-xxxx	Skin Sens. 1B: H317 Asp. Tox. 1: H304 Aquatic Chronic 3: H412
Damascone Beta (IUPAC: (2E)-1-(2,6,6-TRIMETHYLCYCLOHEX-1-EN-1-YL)BUT-2-EN-1-ONE)	<0.3%	35044-68-9 / 23726-91-2	245-842-1	—	01-2120094433-55-xxxx	Aquatic Chronic 2: H411 Skin Sens. 1B: H317 Skin Irrit. 2: H315
Musk 50 IPM (IUPAC: 4,6,6,7,8,8-HEXAMETHYL-1H,3H,4H,6H,7H,8H-INDENO[5,6-C]PYRAN)	<0.3%	1222-05-5	214-946-9	603-212-00-7	01-2119488227-29-xxxx	Aquatic Chronic 1: H410 (M Chr=1) Aquatic Acute 1: H400
Clary Sage Oil 100% pure and natural (IUPAC: CLARY SAGE ESSENTIAL OIL)	<0.3%	8016-63-5	283-911-8	—	01-2120757185-50-xxxx	Skin Sens. 1B: H317 Aquatic Chronic 3: H412
D-Limonene (IUPAC: (4R)-1-METHYL-4-(PROP-1-EN-2-YL)CYCLOHEX-1-ENE)	<0.3%	5989-27-5 / 8028-48-6	227-813-5	601-096-00-2	01-2119529223-47-xxxx	Flam. Liq. 3: H226 Skin Sens. 1B: H317 Skin Irrit. 2: H315 Aquatic Acute 1: H400 (M=1) Asp. Tox. 1: H304 Aquatic Chronic 3: H412
Vertenex (PTBCH Acetate) (IUPAC: 4-TERT-BUTYLCYCLOHEXYL ACETATE)	<0.15%	32210-23-4	250-954-9	—	01-2119976286-24-xxxx	Skin Sens. 1B: H317
Fixolide (Kevolid, Tonalid) (IUPAC: 1-(3,5,5,6,8,8-HEXAMETHYL-5,6,7,8-TETRAHYDRONAPHTHALEN-2-YL)ETHAN-1-ONE)	<0.06%	21145-77-7 / 1506-02-1	244-240-6 / 216-1	—	01-2119539433-40-xxxx	Aquatic Chronic 1: H410 (M Chr=1) Acute Tox. 4 ORAL: H302 Aquatic Acute 1: H400
Benzyl Acetate (IUPAC: BENZYL ACETATE)	<0.03%	140-11-4	205-399-7	—	01-2119638272-42-xxxx	Aquatic Chronic 3: H412
Benzoic Aldehyde (Benzaldehyde) (IUPAC: BENZALDEHYDE)	<0.03%	100-52-7	202-860-4	605-012-00-5	01-2119455540-44-0000	Acute Tox. 4 ORAL: H302
Benzyl Alcohol (IUPAC: PHENYLMETHANOL)	<0.01%	100-51-6	202-859-9	603-057-00-5	01-2119492630-38-xxxx	Acute Tox. 4 ORAL: H302 Acute Tox. 4 INHALATION: H332
Benzyl Salicylate (IUPAC: BENZYL 2-HYDROXYBENZOATE)	<0.01%	118-58-1	204-262-9	—	01-2119969442-31-xxxx	Skin Sens. 1B: H317 Eye Irrit. 2: H319 Aquatic Chronic 3: H412

Ingredient (IUPAC name)	%	CAS No.	EC No.	Index No.	REACH No.	Classification (CLP Reg. (EC) No. 1272/2008)
BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)	<0.01%	128-37-0	204-881-4	—	01-2119555270-46-0000	Aquatic Chronic 1: H410 (M Chr=1)

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 contaminated clothing immediately and wash skin with water and soap. Seek medical attention if symptoms are severe or persist after washing.

Eye contact:

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

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

Persons suffering from asthma, eczema or skin problems should avoid contact, including skin contact, with this product. See Section 11 for additional information on health hazards.

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

Notes for the physician: No specific 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

Specific hazards: Toxic gases or vapours.

5.3. Advice for firefighters

Protective measures during firefighting:

Containers near the fire should be removed or cooled with water.

Special protective equipment for firefighters:

Wear self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions:

Wear appropriate protective equipment, including gloves, safety glasses/face shield, respirator mask, boots, clothing or apron. No smoking, sparks, flames or other ignition sources near spills.

6.2. Environmental precautions

Do not discharge into drains, watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Keep flammable materials away from the spill. Remove all ignition sources. Ensure adequate ventilation. Contain and absorb spilled material with sand, earth or other non-combustible materials. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable disposal containers and seal securely. Label containers with waste and contaminated materials and remove from the area as quickly as possible. Wash thoroughly after spill.

6.4. Reference to other sections

See Section 8 for personal protective equipment and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for use:

Wear protective clothing as described in Section 8 of this Safety Data Sheet. Avoid contact with skin, eyes and clothing.

Advice on general occupational hygiene:

Do not eat, drink or smoke when using 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

Storage precautions:

Store in tightly closed original containers 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)

Aromatic ingredient for household chemicals and cosmetics.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits: No occupational exposure limits have been established for this product. Derived No-Effect Levels (DNELs) have not been established for this product. Predicted No-Effect Concentrations (PNECs) have not been determined for this product.

Occupational exposure limit values:

Ingredient	CAS No.	TWA, 8 hours
Benzyl Alcohol (IUPAC: PHENYLMETHANOL)	100-51-6	TWA= 5* mg/m³
Benzyl Acetate (IUPAC: BENZYL ACETATE)	140-11-4	TWA= 5* mg/m³
Benzoic Aldehyde (Benzaldehyde)	100-52-7	TWA= 5* mg/m³

SECTION 8 (continued): EXPOSURE CONTROLS — ENGINEERING AND PERSONAL PROTECTION MEASURES

* Republic of Latvia Cabinet Regulation No. 325 Adopted 15 May 2007 — Labour Protection Requirements when Coming in Contact with Chemical Substances at Workplaces.

ADDITIONAL INFORMATION:

Information valid at the time of the safety data sheet review.

8.2. Exposure controls

TECHNICAL MEASURES:

Observe the usual precautions for working with chemicals. 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 during use.

GENERAL PROTECTIVE AND HYGIENE MEASURES:

Avoid contact with eyes. Wash hands during work breaks and at the end of the shift. Provide a skin protection plan.

RESPIRATORY PROTECTION:

Avoid excessive inhalation of concentrated vapours. Ensure adequate ventilation. If workers are exposed to high concentrations, they must use appropriate certified respiratory protective equipment. Wear appropriate respiratory protection in the event of large-scale exposure. Suitable half-face respirator according to EN 140.

BODY PROTECTION:

Protective clothing. Emergency showers should be available in the immediate vicinity of potential exposure. Wear appropriate protective clothing, overalls or suits and similar boots according to EN 365/367.

EYE PROTECTION:

Wear appropriate safety glasses with side shields according to EN 166 where there is a risk of possible eye contact. Emergency eyewash fountains should be available in the immediate vicinity of potential exposure.

HYGIENE MEASURES:

No specific hygiene measures are recommended, but good personal hygiene practices should always be maintained when working with chemical products.

HAND PROTECTION:

Chemical protective gloves according to DIN EN 374 with CE marking. Suitable material: Nitrile. Thickness: 0.13 mm. Permeation breakthrough time: 1 hour. Check the condition of protective gloves after each use for damage such as holes, cuts or tears. Do not wear protective gloves longer than necessary. After wearing gloves, apply skin cleansers and skin cosmetics. Gloves for mechanical protection do not provide protection against chemicals.

RISK MANAGEMENT MEASURES:

Operators must be properly trained. The workplace must be regularly inspected by competent 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 permitted
Colour	Colourless to brown
Odour	Fragrance description
Refractive index, 20 °C	0.9 – 1.8
Density, 20 °C	0.9 – 1.6 g/cm³
Flash point	> 61 °C
Melting point/melting range	< 0 °C
Boiling point	No data available
Freezing point	No data available
Decomposition temperature	No data available
Solubility in water	Limited solubility
Solubility in alcohol	Soluble

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 described in Section 7.

10.3. Possibility of hazardous reactions:

Under normal conditions of use there is no information on hazardous reactions.

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 are formed under storage and handling conditions. In the event of fire, hazardous gases may form.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

INHALATION

Acute toxicity: Calculated ATEmix (LC50) = 15.29 mg/l. Components of unknown toxicity >10%: 90.96%. 10 < ATEmix > 20 mg/l. Classified as Acute toxicity, Hazard Category 4.

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

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

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

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

SKIN CONTACT

Acute toxicity: Calculated ATEmix (LD50) = 8 030.65 mg/kg. Components of unknown toxicity >10%: 84.89%. Not classified.

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

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

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

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

EYE CONTACT

Corrosion/irritation: Classified as Not Classified.

INGESTION

Acute toxicity: Calculated ATEmix (LD50) = 2 350.46 mg/kg. Components of unknown toxicity >10%: 9.53%. Not classified.

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

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

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

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

Reproductive toxicity: Not expected to be a reproductive hazard. Not classified — based on available data the classification criteria are not met. Fertility: Not classified — based on available data the classification criteria are not met.

Toxicological data by ingredient:

Ingredient name	CAS No.	LD50 (Oral)	LD50 (Dermal)	LC50 (Inhalation)
Benzyl Benzoate (IUPAC: BENZYL BENZOATE)	120-51-4	2 000 mg/kg	non-toxic	non-toxic
Ethyl Vanillin (IUPAC: 3-ETHOXY-4-HYDROXYBENZALDEHYDE)	121-32-4	non-toxic	non-toxic	non-toxic
Linalool (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-OL)	78-70-6	non-toxic	non-toxic	non-toxic
Eugenol (IUPAC: 2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL)	97-53-0	non-toxic	non-toxic	non-toxic

Ingredient name	CAS No.	LD50 (Oral)	LD50 (Dermal)	LC50 (Inhalation)
Anethol (IUPAC: 1-METHOXY-4-[(1E)-PROP-1-EN-1-YL] BENZENE)	4180-23-8	non-toxic	non-toxic	non-toxic
Guaiacwood Acetate (IUPAC: BULNESIA SARMIENTI, EXT., ACETATE)	61789-17-1 / 94333-88-7 / 613-70-7	non-toxic	non-toxic	non-toxic
Cedarwood Oil TEXAS 100% pure and natural (IUPAC: CEDARWOOD OIL)	68990-83-0	non-toxic	non-toxic	non-toxic
Damascone Alpha (IUPAC: (2E)-1-(2,6,6-TRIMETHYLCYCLOHEX-2-EN-1-YL)BUT-2-EN-1-ONE)	24720-09-0	1 670 mg/kg bw	non-toxic	non-toxic
Linalyl Acetate (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-YL ACETATE)	115-95-7	non-toxic	non-toxic	non-toxic
Lime Oil (IUPAC: CITRUS AURANTIFOLIA EXT.)	8008-26-2	non-toxic	non-toxic	non-toxic
Nuez Moscada Oil (IUPAC: ESSENTIAL OIL EXTRACT OF MYRISTICA FRAGRANS (MYRISTICACEAE) SEED)	8008-45-5 / 84082-68-8	non-toxic	non-toxic	non-toxic
Caryophyllene Beta-95% (IUPAC: (1R,4E,9S)-4,11,11-TRIMETHYL-8-METHYLIDENEBICYCLO[7.2.0]UNDEC-4-ENE)	87-44-5 / 13877-93-5	non-toxic	non-toxic	non-toxic
Damascone Beta (IUPAC: (2 E)-1-(2,6,6-TRIMETHYLCYCLOHEX-1-EN-1-YL)BUT-2-EN-1-ONE)	35044-68-9 / 23726-91-2	non-toxic	non-toxic	non-toxic
Musk 50 IPM (IUPAC: 4,6,6,7,8,8-HEXAMETHYL-1H,3H,4H,6H,7H,8H-INDENO[5,6-C]PYRAN)	1222-05-5	non-toxic	non-toxic	non-toxic
Clary Sage Oil 100% pure and natural (IUPAC: CLARY SAGE ESSENTIAL OIL)	8016-63-5	non-toxic	non-toxic	non-toxic
D-Limonene (IUPAC: (4R)-1-METHYL-4-(PROP-1-EN-2-YL)CYCLOHEX-1-ENE)	5989-27-5 / 8028-48-6	non-toxic	non-toxic	non-toxic
Fixolide (Kevolid, Tonalid) (IUPAC: 1-(3,5,5,6,8,8-HEXAMETHYL-5,6,7,8-TETRAHYDRONAPHTHALEN-2-YL) ETHAN-1-ONE)	21145-77-7 / 1506-02-1	920 mg/kg	non-toxic	non-toxic
Benzyl Acetate (IUPAC: BENZYL ACETATE)	140-11-4	non-toxic	non-toxic	non-toxic
Benzoic Aldehyde (Benzaldehyde) (IUPAC: BENZALDEHYDE)	100-52-7	1 430 mg/kg bw	non-toxic	non-toxic
Benzyl Alcohol (IUPAC: PHENYLMETHANOL)	100-51-6	1.5 mL/kg bw	non-toxic	No data
Benzyl Salicylate (IUPAC: BENZYL 2-HYDROXYBENZOATE)	118-58-1	non-toxic	non-toxic	non-toxic
BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)	128-37-0	non-toxic	non-toxic	non-toxic

SECTION 11 (continued): ADDITIONAL TOXICOLOGICAL INFORMATION

11.2. Primary irritant effect

11.2.1. Endocrine disrupting properties: Benzyl Salicylate (IUPAC: BENZYL 2-HYDROXYBENZOATE)

11.3. Sensitisation:

May have a sensitising effect.

11.4. Chronic effects:

No chronic effects known.

11.5. Target organs:

No adverse health effects on target organs are expected for the finished product.

11.6. Carcinogenicity:

The finished product is not expected to be carcinogenic.

11.7. Mutagenicity:

The finished product is not expected to be mutagenic.

11.8. Reproductive toxicity:

The finished product is not expected to be a reproductive hazard.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity — Toxic to aquatic organisms: (M × 10 × Chronic Category 1) + Chronic Category 2 ≥ 25% = 99.26 ≥ 25 ⇒ Hazardous to the aquatic environment — Chronic Category 2

Ingredient toxicity — Aquatic toxicity:

Ingredient / CAS No.	Test	Result	Species
Benzyl Benzoate (120-51-4)	LC50/48 h	7.77 mg/l	Aquatic invertebrates
Benzyl Benzoate (120-51-4)	EC50/48 h	3.09 mg/l	Aquatic invertebrates
Benzyl Benzoate (120-51-4)	LC50/24 h	11 mg/l	Aquatic invertebrates
Benzyl Benzoate (120-51-4)	EC50/72 h	311	Aquatic algae and cyanobacteria
Benzyl Benzoate (120-51-4)	LC50/96 h	2.32 mg/l	Fish
Benzyl Benzoate (120-51-4)	EC50/24 h	4.26 mg/l	Fish
Ethyl Vanillin (121-32-4)	EC50/48 h	26.2 mg/l	Aquatic invertebrates
Ethyl Vanillin (121-32-4)	EC50/21 days	63 mg/l	Aquatic invertebrates
Ethyl Vanillin (121-32-4)	EC50/72 h	100 mg/l	Aquatic algae and cyanobacteria
Ethyl Vanillin (121-32-4)	LC50/96 h	87.6 mg/l	Fish
Linalool (78-70-6)	EC50/96 h	59 mg/l	Aquatic invertebrates
Linalool (78-70-6)	EC50/96 h	122.5 mg/l	Algae
Linalool (78-70-6)	LC50/96 h	27.8 mg/l	Fish
Linalool (78-70-6)	LC50/72 h	27.8 mg/l	Fish
Linalool (78-70-6)	LC50/48 h	27.8 mg/l	Fish
Eugenol (97-53-0)	EC50/48 h	1.05 mg/l	Aquatic invertebrates
Eugenol (97-53-0)	EC50/72 h	23 mg/l	Algae
Eugenol (97-53-0)	LC50/96 h	13 mg/l	Fish
Eugenol (97-53-0)	LC50/72 h	13 mg/l	Fish
Eugenol (97-53-0)	LC50/48 h	13 mg/l	Fish
Eugenol (97-53-0)	LC50/24 h	13 mg/l	Fish
Anethol (4180-23-8)	LC50/48 h	6.82 mg/l	Aquatic invertebrates
Anethol (4180-23-8)	EC50/48 h	4.25 mg/l	Aquatic invertebrates
Anethol (4180-23-8)	EC50/21 days	2.81 mg/l	Aquatic invertebrates
Anethol (4180-23-8)	LC50/96 h	7 mg/l	Fish
Guaiacwood Acetate (61789-17-1 / 94333-88-7 / 613-70-7)	EC50/48 h	330	Aquatic invertebrates
Guaiacwood Acetate (61789-17-1 / 94333-88-7 / 613-70-7)	EC50/72 h	310	Aquatic algae and cyanobacteria
Damascone Alpha (24720-09-0)	EC50/48 h	2.37 mg/l	Aquatic invertebrates
Damascone Alpha (24720-09-0)	EC50/48 h	2.37 mg/l	Aquatic invertebrates

Ingredient / CAS No.	Test	Result	Species
Damascone Alpha (24720-09-0)	EC50/72 h	5 mg/l	Aquatic algae and cyanobacteria
Damascone Alpha (24720-09-0)	EC50/72 h	5 mg/l	Aquatic algae and cyanobacteria
Damascone Alpha (24720-09-0)	LC50/96 h	1.09 mg/l	Fish
Damascone Alpha (24720-09-0)	LC50/96 h	1.09 mg/l	Fish
Linalyl Acetate (115-95-7)	EC50/48 h	59 mg/l	Aquatic invertebrates
Linalyl Acetate (115-95-7)	EC50/24 h	71 mg/l	Aquatic invertebrates
Linalyl Acetate (115-95-7)	EC50/24 h	71 mg/l	Aquatic invertebrates
Linalyl Acetate (115-95-7)	EC50/96 h	88.3 mg/l	Aquatic algae and cyanobacteria
Linalyl Acetate (115-95-7)	LC50/96 h	11 mg/l	Fish
Linalyl Acetate (115-95-7)	LC50/96 h	11 mg/l	Fish
Linalyl Acetate (115-95-7)	LC50	11.14 mg/l	Fish
Linalyl Acetate (115-95-7)	EC50/48 h	59 mg/l	Fish
Nuez Moscada Oil (8008-45-5 / 84082-68-8)	EC50/48 h	590 µg/L	Aquatic invertebrates
Caryophyllene Beta-95% (87-44-5 / 13877-93-5)	EC50/48 h	170	Aquatic invertebrates
Caryophyllene Beta-95% (87-44-5 / 13877-93-5)	EC50/72 h	33	Algae
Damascone Beta (35044-68-9 / 23726-91-2)	EC50/48 h	9.5 mg/l	Aquatic invertebrates
Damascone Beta (35044-68-9 / 23726-91-2)	EC50/72 h	8.8 mg/l	Algae
Damascone Beta (35044-68-9 / 23726-91-2)	EC50/72 h	8.8 mg/l	Aquatic algae and cyanobacteria
Musk 50 IPM (1222-05-5)	EC50/48 h	300 µg/L	Aquatic invertebrates
Musk 50 IPM (1222-05-5)	EC50/72 h	854 µg/L	Aquatic algae and cyanobacteria
Musk 50 IPM (1222-05-5)	LC50/96 h	950 µg/L	Fish
D-Limonene (5989-27-5 / 8028-48-6)	EC50/48 h	510 mg/l	Aquatic invertebrates
D-Limonene (5989-27-5 / 8028-48-6)	EC50/48 h	408.5 mg/l	Aquatic invertebrates
D-Limonene (5989-27-5 / 8028-48-6)	EC50/24 h	840 mg/l	Aquatic invertebrates
D-Limonene (5989-27-5 / 8028-48-6)	EC50/21 days	188 mg/l	Aquatic invertebrates
D-Limonene (5989-27-5 / 8028-48-6)	EC50/72 h	320 mg/l	Aquatic algae and cyanobacteria
D-Limonene (5989-27-5 / 8028-48-6)	EC50/48 h	250 mg/l	Aquatic algae and cyanobacteria
D-Limonene (5989-27-5 / 8028-48-6)	EC50/48 h	250	Algae
D-Limonene (5989-27-5 / 8028-48-6)	LC50/96 h	720 mg/l	Fish
D-Limonene (5989-27-5 / 8028-48-6)	EC50/96 h	702 mg/l	Fish
D-Limonene (5989-27-5 / 8028-48-6)	LC50/96 h	590 mg/l	Fish
D-Limonene (5989-27-5 / 8028-48-6)	EC50/96 h	695	Fish
Vertenex / PTBCH Acetate (32210-23-4)	EC50/48 h	5.3 mg/l	Aquatic invertebrates
Vertenex / PTBCH Acetate (32210-23-4)	EC50/72 h	22 mg/l	Algae
Vertenex / PTBCH Acetate (32210-23-4)	LC50/96 h	8.6 mg/l	Fish
Fixolide (Kevolid, Tonalid) (21145-77-7 / 1506-02-1)	EC50/72 h	800 µg/L	Aquatic invertebrates
Fixolide (Kevolid, Tonalid) (21145-77-7 / 1506-02-1)	EC50/72 h	625 µg/L	Aquatic algae and cyanobacteria
Fixolide (Kevolid, Tonalid) (21145-77-7 / 1506-02-1)	LC50/96 h	1.49 mg/l	Fish

Ingredient / CAS No.	Test	Result	Species
Benzyl Acetate (140-11-4)	EC50/48 h	17 mg/l	Aquatic invertebrates
Benzyl Acetate (140-11-4)	EC50/72 h	101 mg/l	Algae
Benzyl Acetate (140-11-4)	LC50/96 h	4 mg/l	Fish
Benzoic Aldehyde / Benzaldehyde (100-52-7)	EC50/48 h	19.7 mg/l	Aquatic invertebrates
Benzoic Aldehyde / Benzaldehyde (100-52-7)	EC50/24 h	50 mg/l	Aquatic invertebrates
Benzoic Aldehyde / Benzaldehyde (100-52-7)	EC50/24 h	50 mg/l	Aquatic invertebrates
Benzoic Aldehyde / Benzaldehyde (100-52-7)	EC50/72 h	33.1 mg/l	Aquatic algae and cyanobacteria
Benzoic Aldehyde / Benzaldehyde (100-52-7)	LC50/96 h	13.8 mg/l	Fish
Benzoic Aldehyde / Benzaldehyde (100-52-7)	LC50/96 h	1.07 mg/l	Fish
Benzyl Alcohol (100-51-6)	LC50/48 h	260.415 mg/l	Aquatic invertebrates
Benzyl Alcohol (100-51-6)	EC50/48 h	230 mg/l	Aquatic invertebrates
Benzyl Alcohol (100-51-6)	EC50/21 days	66 mg/l	Aquatic invertebrates
Benzyl Alcohol (100-51-6)	EC50/72 h	500 mg/l	Algae
Benzyl Alcohol (100-51-6)	EC50/96 h	76.828 mg/l	Algae
Benzyl Alcohol (100-51-6)	LC50/96 h	460 mg/l	Fish
Benzyl Alcohol (100-51-6)	LC50/48 h	770 mg/l	Fish
Benzyl Alcohol (100-51-6)	LC50/24 h	770 mg/l	Fish
Benzyl Alcohol (100-51-6)	LC50/72 h	460 mg/l	Fish
Benzyl Salicylate (118-58-1)	LC50/48 h	2.25 mg/l	Aquatic invertebrates
Benzyl Salicylate (118-58-1)	EC50/48 h	1.16 mg/l	Aquatic invertebrates
Benzyl Salicylate (118-58-1)	EC50/24 h	1.21 mg/l	Aquatic invertebrates
Benzyl Salicylate (118-58-1)	LC50/24 h	4.34 mg/l	Aquatic invertebrates
Benzyl Salicylate (118-58-1)	EC50/72 h	1.29 mg/l	Aquatic algae and cyanobacteria
Benzyl Salicylate (118-58-1)	LC50/96 h	1.03 mg/l	Fish
BHT (128-37-0)	EC50/72 h	5 120 µg/L	Algae
BHT (128-37-0)	EC50/96 h	758 µg/L	Algae
BHT (128-37-0)	LC50/96 h	384.5 µg/L	Fish

SECTION 12 (continued): ECOLOGICAL INFORMATION

12.2. Persistence and degradability:

May have long-term harmful effects on the aquatic environment.

Assessment of biodegradation and elimination: No data available.

12.3. Bioaccumulative potential:

No further relevant information available. Low potential for bioaccumulation: (log Pow calculated = 0).

12.4. Mobility in soil:

The product is partially water-soluble. Adsorbs to soil and has low mobility.

General note: Wastewater containing this product must not be discharged into water bodies without prior treatment.

12.5. Results of PBT and vPvB assessment:

This mixture does not contain substances meeting the PBT or vPvB criteria of Annex XIII of the REACH Regulation.

12.6. Endocrine disrupting properties:

Benzyl Salicylate (IUPAC: BENZYL 2-HYDROXYBENZOATE), Musk 50 IPM (IUPAC: 4,6,6,7,8,8-HEXAMETHYL-1H,3H,4H,6H,7H,8H-INDENO[5,6-C]PYRAN), Fixolide (Kevolid, Tonalid) (IUPAC: 1-(3,5,5,6,8,8-HEXAMETHYL-5,6,7,8-TETRAHYDRONAPHTHALEN-2-YL)ETHAN-1-ONE), BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)

12.7. Other adverse effects:

Greenhouse potential: Cannot contribute to the greenhouse effect.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of in accordance with local and national regulations.

Product residues:

Do not dispose of empty packaging with household waste. Containers can be recycled. Treat product residues, impregnated cloths and non-empty packaging as special waste.

Additional warning: None.

European Waste Catalogue:

Hazardous waste pursuant to Directive 91/689/EEC; to be disposed of in an official chemical waste depot under a waste code recognised in accordance with Commission Decision 2000/532/EC.

Local legislation:

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be stricter than regional or national requirements and must be complied with.

EWC Code	Description
07	Wastes from organic chemical processes:
07 07	Wastes from the MFSU of fine chemicals and chemical products, n.o.s.
07 07 99	Wastes not otherwise specified

SECTION 13 (continued): CONTAMINATED PACKAGING

Do not dispose of empty packaging with household waste. Containers can be recycled. Treat product residues, impregnated cloths and non-empty packaging as special waste.

Recommendation: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number:

UN 3082

14.2. UN proper shipping name:

UN 3082 Environmentally hazardous substance, liquid, N.O.S.

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. Maritime transport in bulk according to IMO instruments:

Not applicable. Packaged liquids are not considered bulk liquids.

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.

Commission Regulation (EU) No. 2015/830 of 28 May 2015 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on REACH.

Information on use restrictions:

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

Directive 92/85/EC on the safety and health at work of pregnant workers must be observed.

15.2. Chemical safety assessment:

Not applicable.

SECTION 16: OTHER INFORMATION

Full text of classifications referred to in Sections 2 and 3, including hazard class, hazard symbols and hazard statements:

H226 — Flammable liquid and vapour.

H302 — Harmful if swallowed.

H304 — May be fatal if swallowed and enters airways.

H315 — Causes skin irritation.

H317 — May cause an allergic skin reaction.

H319 — Causes serious eye irritation.

H332 — Harmful if inhaled.

H341 — Suspected of causing genetic defects.

H350 — May cause cancer.

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.

H412 — Harmful to aquatic life with long-lasting effects.

P201 — Obtain special instructions before use.

P202 — Do not handle until all safety precautions have been read and understood.

P261 — Avoid breathing dust/fumes/gas/mist/vapours/spray.

P264 — Wash thoroughly after handling.

P271 — Use only outdoors or in a well-ventilated area.

P272 — Contaminated work clothing should not be allowed out of the workplace.

P273 — Avoid release to the environment.

P280 — Wear protective gloves/protective clothing/eye protection/face protection.

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

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

P501 — Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulation.

Abbreviations and acronyms:

PBT: Persistent, bioaccumulative, toxic

vPvB: Very persistent, 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: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

EC50: Effective concentration, 50 percent

CLP: Regulation (EC) No. 1272/2008 on 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 Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

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

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