

Fragrance Cashmere & Orange 00011013

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, industry and household chemicals

TRADE NAME:

Fragrance Cashmere & Orange 00011013

PRODUCT NUMBER:

00011013

UFI Code:

RHGY-E04E-100N-18GF

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.

USE ADVISED AGAINST: Do not use in foodstuffs.

1.3. Details of the supplier of the safety data sheet

SUPPLIER:

Lemo Fun SRL

Nicolae Licaret 6, Bucharest, Romania

Phone: +40784943113

Email: info@shoplumanari.ro

Website: www.shoplumanari.ro

1.4. Emergency telephone number

IN CASE OF INTOXICATION:

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

National Poison 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

Harmful to aquatic life with long lasting effects: H412

Harmful if swallowed: H302

May cause an allergic skin reaction: H317

Causes skin irritation: H315

May cause drowsiness or dizziness: H336

Causes serious eye irritation: H319

May be fatal if swallowed and enters airways: H304

2.2. Label elements

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

Hazard Pictograms: (see pictograms section)

Signal Word: DANGER

Hazard Statements:

H412 – Harmful to aquatic life with long lasting effects.

H302 – Harmful if swallowed.

H317 – May cause an allergic skin reaction.

H315 – Causes skin irritation.

H336 – May cause drowsiness or dizziness.

H319 – Causes serious eye irritation.

H304 – May be fatal if swallowed and enters airways.

Precautionary Statements:

P261 – Avoid breathing vapour/aerosol.

P273 – Avoid release to the environment.

P280 – Wear protective gloves/eye protection.

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

P302+P352 – IF ON SKIN: Wash with plenty of water.

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

P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 – Do NOT induce vomiting.

P405 – Store locked up.

P501 – Dispose of contents/container in accordance with local regulations.

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.

Additional hazardous component from the ARDF fixative: Exxsol D60 – 25.5%; Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics; EC No. 918-481-9; REACH 01-2119457273-39; Asp. Tox. 1 (H304).

Ingredient	%	CAS No.	EC No.	Index No. / REACH No.	Classification (CLP) Regulation (EC) No. 1272/2008
Solvenon DPnB (IUPAC: 1-[(1-BUTOXYPROPAN-2-YL)OXY]PROPAN-2-OL)	<34%	29911-28-2	249-951-5	REACH: 01-211945154 3-42-xxxx	—
Methoxypropanol (propylene glycol methyl ether) (IUPAC: 1-METHOXYPROPAN-2-OL)	<20.4%	107-98-2	203-539-1	REACH: 01-212077265 1-52-xxxx	Flam. Liq. 3: H226 STOT SE 3 (H336): H336
Isopropyl alcohol (IUPAC: PROPAN-2-OL)	<4.25%	67-63-0	200-661-7	REACH: (not stated)	Eye Irrit. 2: H319 Flam. Liq. 2: H225 STOT SE 3 (H336): H336
Dihydromyrcenol (Myrcetol) (IUPAC: 2,6-DIMETHYLOCT-7-EN-2-OL)	<2.1%	18479-58-8	242-362-4	REACH: 01-211945727 4-37-xxxx	Skin Irrit. 2: H315 Eye Irrit. 2: H319 STOT SE 3 (H336): H336
Iso E Super (IUPAC: 1-(1,2,3,4,5,6,7,8-OCTAHYDRO-2,3,8,8-TETRAMETHYL-2-NAPHTHYL)ETHAN-1-ONE)	<1.17%	54464-57-2	259-174-3	REACH: (not stated)	Aquatic Chronic 2: H411 Skin Sens. 1: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319
Benzyl Salicylate (IUPAC: BENZYL 2-HYDROXYBENZOATE)	<0.75%	118-58-1	204-262-9	REACH: 01-211996944 2-31-xxxx	Skin Sens. 1B: H317 Eye Irrit. 2: H319 Aquatic Chronic 3: H412
Linalool (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-OL)	<0.75%	78-70-6	201-134-4	Index: 603-235-00-2 REACH: 01-211947401 6-42-xxxx	Skin Sens. 1B: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319
Citral (IUPAC: (2E)-3,7-DIMETHYLOCTA-2,6-DIENAL)	<0.45%	5392-40-5	226-394-6	REACH: 01-211946282 9-23-xxxx	Skin Sens. 1B: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319
Orange Oil 100% pure and natural (IUPAC: (2Z,6E)-2,6-DIMETHYL-10-METHYLIDENEDODECA-2,6,11-TRIENAL)	<0.45%	8008-57-9 / 8028-48-6	232-433-8	REACH: 01-211949335 3-35-xxxx	Aquatic Chronic 2: H411 Skin Sens. 1: H317 Flam. Liq. 3: H226 Skin Irrit. 2: H315 Asp. Tox. 1: H304
Cashmeran (IUPAC: 1,1,2,3,3-PENTAMETHYL-2,3,4,5,6,7-HEXAHYDRO-1H-INDEN-4-ONE)	<0.4%	33704-61-9 / 155667-06-4	251-649-3	REACH: 01-211997713 1-40-xxxx	Aquatic Chronic 2: H411 Skin Sens. 1B: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319
Amyl Cinnamic Aldehyde Alpha (IUPAC: (2Z)-2-(PHENYLMETHYLIDENE)HEPTANAL)	<0.3%	122-40-7	204-541-5	REACH: 01-212074048 7-49-xxxx	Aquatic Chronic 2: H411 Skin Sens. 1: H317 M=1
Citronellol (IUPAC: 3,7-DIMETHYLOCT-6-EN-1-OL)	<0.3%	106-22-9	203-375-0	REACH: 01-211945399 5-23-xxxx	Skin Sens. 1B: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319
Helional (Helioven) (IUPAC: 3-(2H-1,3-BENZODIOXOL-5-YL)-2-METHYLPROPANAL)	<0.3%	1205-17-0	214-881-6	REACH: 01-212074011 9-58-xxxx	Aquatic Chronic 2: H411 Skin Sens. 1B: H317 Repr. 2: H361
Cedarwood Oil TEXAS 100% pure and natural (IUPAC: CEDARWOOD OIL)	<0.3%	68990-83-0	294-461-7	REACH: 01-212075360 3-56-xxxx	Aquatic Chronic 1: H410 Skin Sens. 1B: H317 Skin Irrit. 2: H315 Aquatic Acute 1: H400 Asp. Tox. 1: H304 M=1
Bacdanol (Srandanol) (IUPAC: (E)-2-ETHYL-4-(2,2,3-TRIMETHYL-1-CYCLOPENT-3-ENYL)BUT-2-EN-1-OL)	<0.3%	28219-61-6 / 106185-75-5	248-908-8	REACH: (not stated)	Aquatic Chronic 1: H410 Eye Irrit. 2: H319 M Chr=1
Lemon Oil 100% pure and natural (IUPAC: (R)-4-ISOPROPENYL-1-METHYLCYCLOHEXENE)	<0.22%	8008-56-8 / 84929-31-7	284-515-8	REACH: 01-211949551 2-35-xxxx	Aquatic Chronic 2: H411 Skin Sens. 1: H317 Flam. Liq. 3: H226 Skin Irrit. 2: H315 Asp. Tox. 1: H304

Ingredient	%	CAS No.	EC No.	Index No. / REACH No.	Classification (CLP) Regulation (EC) No. 1272/2008
Cinnamic Aldehyde (IUPAC: (2E)-3-PHENYLPROP-2-ENAL)	<0.22%	104-55-2	203-213-9	REACH: 01-211993524 2-45-xxxx	Skin Sens. 1: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319 Aquatic Chronic 3: H412
Methyl Cedryl Ether (IUPAC: [3R-(3A,3AB,6A,7B,8AA)]-OCTAHYDRO-6-METHOXY-3,6,8,8-TETRAMETHYL-1H-3A,7-METHANOAZULENE)	<0.22%	67874-81-1	244-602-3	REACH: (not stated)	Aquatic Chronic 1: H410 Skin Sens. 1B: H317 Aquatic Acute 1: H400 M=1
Isoamyl Acetate (IUPAC: 3-METHYLBUTYL ACETATE)	<0.22%	123-92-2	204-662-3	REACH: 01-211954840 8-32-xxxx	Flam. Liq. 3: H226
Geraniol Fine 98% (IUPAC: (2E)-3,7-DIMETHYLOCTA-2,6-DIEN-1-OL)	<0.22%	106-24-1	203-377-1	Index: 603-241-00-5 REACH: 01-211955243 0-49-xxxx	Skin Sens. 1: H317 Skin Irrit. 2: H315 Eye Dam. 1: H318
Methyl Cedryl Ketone (MCK) (IUPAC: (3R-(3A,3AB,7B,8AA))-1-(2,3,4,7,8,8A-HEXAHYDRO-3,6,8,8-TETRAMETHYL-1H-3A,7-METHANOAZULEN-5-YL)ETHAN-1-ONE)	<0.16%	32388-55-9	251-020-3	REACH: 01-211996965 1-28-xxxx	Aquatic Chronic 1: H410 Skin Sens. 1B: H317 Aquatic Acute 1: H400
Cis-3-Hexenyl Salicylate (IUPAC: (3Z)-HEX-3-EN-1-YL 2-HYDROXYBENZOATE)	<0.15%	65405-77-8	265-745-8	REACH: 01-211998732 0-37-0001	Aquatic Acute 1: H400 Repr. 2: H361 M=1
Canthoxal (IUPAC: 3-(4-METHOXYPHENYL)-2-METHYLPROPANAL)	<0.1%	5462-06-6	226-749-5	REACH: 01-212062910 3-67-xxxx	Skin Sens. 1: H317
Linalyl Acetate (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-YL ACETATE)	<0.1%	115-95-7	204-116-4	REACH: 01-211945478 9-19-xxxx	Skin Sens. 1B: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319
D-Limonene (IUPAC: (4R)-1-METHYL-4-(PRO P-1-EN-2-YL)CYCLOHEX-1-ENE)	<0.1%	5989-27-5 / 8028-48-6	227-813-5	Index: 601-096-00-2 REACH: 01-211952922 3-47-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
Ethanol (IUPAC: ETHANOL)	<0.01%	64-17-5	200-578-6	REACH: (not stated)	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
BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)	<0.001%	128-37-0	204-881-4	REACH: 01-211955527 0-46-0000	Aquatic Chronic 1: H410 M Chr=1

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

INHALATION:

Immediately move the affected person to fresh air. Seek medical advice if symptoms persist.

INGESTION:

Do NOT induce vomiting. Immediately call a POISON CENTRE or doctor.

SKIN CONTACT:

Wash with soap and water. Seek medical advice if symptoms are severe or persist after washing.

EYE CONTACT:

Remove any contact lenses and open eyelids wide. Immediately rinse with plenty of water. Continue rinsing for at least 15 minutes. Seek medical advice 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

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

See Section 8 for personal protective equipment. See Section 13 for disposal information.

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.

General occupational hygiene advice: 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

Store in a 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)

Aromatic ingredient for household chemicals and cosmetics.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limit values: No occupational exposure limit values 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.

Additional information: Information valid at the time of review of the Safety Data Sheet.

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

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 when using this product.

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, appropriate certified respiratory protective equipment must be used. For large-scale exposure, wear appropriate respiratory protection. Suitable face/respiratory protection conforming to EN 140.

BODY PROTECTION: Protective clothing. Emergency showers should be available in the immediate vicinity of possible exposure. Wear appropriate protective clothing, overalls or suits and similar boots in accordance with EN 365/367.

EYE PROTECTION: Wear appropriate safety goggles with side protection in accordance with EN 166, if there is a risk of possible eye contact. Emergency eye wash stations should be available in the immediate vicinity of possible exposure.

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

HAND PROTECTION: Chemical-resistant gloves in accordance with DIN EN 374 with CE marking. Suitable material: Nitrile, 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 removing gloves, apply skin-cleansing products 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 competent personnel, e.g. the safety officer.

Ingredient	CAS No.	TWA, 8 hours
Methoxypropanol (propylene glycol methyl ether)	107-98-2	TWA= 375* mg/m ³
Isopropyl alcohol (IUPAC: PROPAN-2-OL)	67-63-0	TWA= 350* mg/m ³
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

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	Description of fragrance
Refractive index, 20 °C	0.9 – 1.8
Density, 20 °C	0.9 – 1.6 g/cm ³
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
Kinematic viscosity	approx. 1.43 mm ² /s at 40 °C (calculated; not measured)

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, no information on hazardous reactions is available.

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 expected under normal 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) = 82.12 mg/l. Components of unknown toxicity >10%: 97.15%. Not classified.

Corrosion/Irritation: Not classified – based on available data, classification criteria are not met.

Sensitisation: Contains no substances classified as inhalation allergens. Not classified – based on available data, classification criteria are not met.

Carcinogenicity: Contains no carcinogenic substances. Not classified – based on available data, classification criteria are not met.

Mutagenicity: Contains no mutagenic substances. Not classified – based on available data, classification criteria are not met.

SKIN CONTACT:

Acute toxicity: Calculated ATEmix (LD50) = 3 281.91 mg/kg. Components of unknown toxicity >10%: 34.2%. Not classified.

Skin Irrit. 2 (H315): Causes skin irritation.

Skin Sens. 1 (H317): May cause an allergic skin reaction.

Carcinogenicity: Contains no carcinogenic substances. Not classified – based on available data, classification criteria are not met.

Mutagenicity: Contains no mutagenic substances. Not classified – based on available data, classification criteria are not met.

EYE CONTACT:

Corrosion/Irritation: Eye Irrit. 2 (H319): Causes serious eye irritation.

INGESTION:

Acute toxicity: Calculated ATEmix (LD50) = 965.73 mg/kg. Components of unknown toxicity >10%: 28.63%. $300 < \text{ATEmix} \leq 2000$ mg/kg. Acute Tox. 4 (H302): Harmful if swallowed.

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

Carcinogenicity: Contains no carcinogenic substances. Not classified – based on available data, classification criteria are not met.

Mutagenicity: Contains no mutagenic substances. Not classified – based on available data, classification criteria are not met.

Reproductive toxicity: Not expected to be reproductively toxic. Not classified – based on available data, classification criteria are not met. Fertility: Not classified – based on available data, classification criteria are not met.

11.2. Primary irritant effect

11.2.1 Endocrine disrupting properties: Benzyl Salicylate – Skin Sens. 1 (H317).

11.3. Sensitisation

(See composition table in Section 3 for sensitising substances.)

11.4. Chronic effects

No chronic effects known.

11.5. Aspiration hazard

Asp. Tox. 1 (H304): May be fatal if swallowed and enters airways.

11.6. Target organs

STOT SE 3 (H336): May cause drowsiness or dizziness.

11.7. Carcinogenicity

The end product is not expected to be carcinogenic.

11.8. Mutagenicity

The end product is not expected to be mutagenic.

11.9. Reproductive toxicity

The end product is not expected to be reproductively toxic.

Ingredient name	CAS No.	LD50 (Oral)	LD50 (Dermal)	LC50 (Inhalation)
Solvenon DPnB (IUPAC: 1-[(1-BUTOXYPROPAN-2-YL)OXY]PROPAN-2-OL)	29911-28-2	non-toxic	non-toxic	non-toxic
Methoxypropanol (propylene glycol methyl ether) (IUPAC: 1-METHOXYPROPAN-2-OL)	107-98-2	non-toxic	non-toxic	non-toxic
Isopropyl alcohol (IUPAC: PROPAN-2-OL)	67-63-0	non-toxic	non-toxic	non-toxic
Dihydromyrcenol (Myrcetol) (IUPAC: 2,6-DIMETHYLOCT-7-EN-2-OL)	18479-58-8	non-toxic	non-toxic	non-toxic
Benzyl Salicylate (IUPAC: BENZYL 2-HYDROXYBENZOATE)	118-58-1	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
Citral (IUPAC: (2E)-3,7-DIMETHYLOCTA-2,6-DIENAL)	5392-40-5	non-toxic	non-toxic	non-toxic
Orange Oil 100% pure and natural (IUPAC: (2Z,6E)-2,6-DIMETHYL-10-METHYLIDENE DODECA-2,6,11-TRIENAL)	8008-57-9 / 8028-48-6	non-toxic	non-toxic	non-toxic
Cashmeran (IUPAC: 1,1,2,3,3-PENTAMETHYL-2,3,4,5,6,7-HEXAHYDRO-1H-INDEN-4-ONE)	33704-61-9 / 155667-06-4	non-toxic	non-toxic	non-toxic
Amyl Cinnamic Aldehyde Alpha (IUPAC: (2Z)-2-(PHENYLMETHYLIDENE)HEPTANAL)	122-40-7	non-toxic	non-toxic	non-toxic
Citronellol (IUPAC: 3,7-DIMETHYLOCT-6-EN-1-OL)	106-22-9	non-toxic	non-toxic	non-toxic
Helional (Helioven) (IUPAC: 3-(2H-1,3-BENZODIOXOL-5-YL)-2-METHYLPROPANAL)	1205-17-0	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

Ingredient name	CAS No.	LD50 (Oral)	LD50 (Dermal)	LC50 (Inhalation)
Lemon Oil 100% pure and natural (IUPAC: (R)-4-ISOPROPENYL-1-METHYLCYCLOHEXENE)	8008-56-8 / 84929-31-7	non-toxic	non-toxic	non-toxic
Cinnamic Aldehyde (IUPAC: (2E)-3-PHENYLPROP-2-ENAL)	104-55-2	non-toxic	non-toxic	non-toxic
Isoamyl Acetate (IUPAC: 3-METHYLBUTYL ACETATE)	123-92-2	non-toxic	non-toxic	non-toxic
Geraniol Fine 98% (IUPAC: (2E)-3,7-DIMETHYLOCTA-2,6-DIEN-1-OL)	106-24-1	non-toxic	non-toxic	non-toxic
Methyl Cedryl Ketone (MCK) (IUPAC: (3R-(3A,3AB,7B,8AA))-1-(2,3,4,7,8,8A-HEXAHYDRO-3,6,8,8-TETRAMETHYLL-1H-3A,7-METHANOAZULEN-5-YL)ETHAN-1-ONE)	32388-55-9	non-toxic	non-toxic	non-toxic
Cis-3-Hexenyl Salicylate (IUPAC: (3Z)-HEX-3-EN-1-YL 2-HYDROXYBENZOATE)	65405-77-8	non-toxic	non-toxic	non-toxic
Canthoxal (IUPAC: 3-(4-METHOXYPHENYL)-2-METHYLPROPANAL)	5462-06-6	non-toxic	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
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
Ethanol (IUPAC: ETHANOL)	64-17-5	8 300 mg/kg	non-toxic	non-toxic
BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)	128-37-0	non-toxic	non-toxic	non-toxic

SECTION 12: ECOLOGICAL INFORMATION

No ecotoxicological research has been carried out on this product.

Ecotoxicity – Toxic to aquatic organisms: $(M \times 100 \times \text{Chronic Category 1}) + (10 \times \text{Chronic Category 2}) + \text{Chronic Category 3} = 76.25 \geq 25 \Rightarrow$ Hazardous to the aquatic environment — Chronic Category 3.

12.1. Toxicity

12.2. Persistence and degradability

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

Assessment of biodegradability and elimination: No data available.

12.3. Bioaccumulative potential

No further relevant information available. Low potential for bioaccumulation: $(\log Pow \text{ calculated} = 411.834)$.

12.4. Mobility in soil

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

General notes: Wastewater containing this product must not be discharged into watercourses without prior treatment.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

Benzyl Salicylate (IUPAC: BENZYL 2-HYDROXYBENZOATE), BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL).

12.7. Other adverse effects

Greenhouse potential: Cannot contribute to the greenhouse effect.

Ingredient	CAS No.	Test	Result	Species
Solvenon DPnB (IUPAC: 1-[(1-BUTOXYPROPAN-2-YL)OXY]PROPAN-2-OL)	29911-28-2	EC50/96 H	519 mg/l	Aquatic algae and cyanobacteria
Solvenon DPnB	29911-28-2	LC50/96 H	841 mg/l	Fish
Solvenon DPnB	29911-28-2	EC50/96 H	320 mg/l	Fish
Solvenon DPnB	29911-28-2	EC50/48 H	100 mg/l	Aquatic invertebrates
Isopropyl alcohol (IUPAC: PROPAN-2-OL)	67-63-0	LC50/96 H	10 g/l	Fish
Isopropyl alcohol	67-63-0	LC50/24H	10 g/l	Aquatic invertebrates
Isopropyl alcohol	67-63-0	EC50/24H	10 g/l	Aquatic invertebrates
Dihydromyrcenol (Myrcetol) (IUPAC: 2,6-DIMETHYLOCT-7-EN-2-OL)	18479-58-8	EC50/72H	6 485	Algae
Dihydromyrcenol	18479-58-8	EC50/48 H	9.1 mg/l	Aquatic invertebrates
Benzyl Salicylate (IUPAC: BENZYL 2-HYDROXYBENZOATE)	118-58-1	EC50/72H	1.29 mg/l	Aquatic algae and cyanobacteria
Benzyl Salicylate	118-58-1	LC50/96 H	1.03 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	LC50/24H	4.34 mg/l	Aquatic invertebrates
Benzyl Salicylate	118-58-1	EC50/24H	1.21 mg/l	Aquatic invertebrates
Linalool (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-OL)	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	LC50/72H	27.8 mg/l	Fish
Linalool	78-70-6	LC50/48 H	27.8 mg/l	Fish
Linalool	78-70-6	EC50/96 H	59 mg/l	Aquatic invertebrates
Citral (IUPAC: (2E)-3,7-DIMETHYLOCTA-2,6-DIENAL)	5392-40-5	EC50/72H	103.8 mg/l	Algae
Citral	5392-40-5	LC50/96 H	6.78 mg/l	Fish
Cashmeran (IUPAC: 1,1,2,3,3-PENTAMETHYL-2,3,4,5,6,7-HEXAHYDRO-1H-INDEN-4-ONE)	33704-61-9 / 155667-06-4	EC50/72H	10 mg/l	Aquatic algae and cyanobacteria
Cashmeran	33704-61-9 / 155667-06-4	LC50/96 H	1.7 mg/l	Fish
Cashmeran	33704-61-9 / 155667-06-4	LC50/24H	2 mg/l	Fish
Cashmeran	33704-61-9 / 155667-06-4	EC50/48 H	1.5 mg/l	Aquatic invertebrates
Cashmeran	33704-61-9 / 155667-06-4	EC50/24H	3.8 mg/l	Aquatic invertebrates
Amyl Cinnamic Aldehyde Alpha (IUPAC: (2Z)-2-(PHENYLMETHYLIDENE)HEPTANAL)	122-40-7	EC50/72H	2.3 mg/l	Aquatic algae and cyanobacteria
Amyl Cinnamic Aldehyde Alpha	122-40-7	LC50/96 H	910	Fish
Amyl Cinnamic Aldehyde Alpha	122-40-7	EC50/48 H	280	Aquatic invertebrates
Amyl Cinnamic Aldehyde Alpha	122-40-7	EC50/21 days	54	Aquatic invertebrates
Citronellol (IUPAC: 3,7-DIMETHYLOCT-6-EN-1-OL)	106-22-9	EC50/72H	2.4 mg/l	Aquatic algae and cyanobacteria
Citronellol	106-22-9	EC50/72H	2.4 mg/l	Algae
Citronellol	106-22-9	LC50/96 H	14.66 mg/l	Fish
Citronellol	106-22-9	LC50/96 H	14.66 mg/l	Fish
Citronellol	106-22-9	EC50/48 H	17.48 mg/l	Aquatic invertebrates
Citronellol	106-22-9	EC50/48 H	17.48 mg/l	Aquatic invertebrates

Ingredient	CAS No.	Test	Result	Species
Helional (Helioven) (IUPAC: 3-(2H-1,3-BENZODIOXOL-5-YL)-2-METHYLPROPANAL)	1205-17-0	EC50/72H	14 mg/l	Aquatic algae and cyanobacteria
Helional	1205-17-0	EC50/48 H	8.3 mg/l	Aquatic invertebrates
Helional	1205-17-0	EC50/24H	17 mg/l	Aquatic invertebrates
Cinnamic Aldehyde (IUPAC: (2E)-3-PHENYLPROP-2-ENAL)	104-55-2	EC50/72H	31.6 mg/l	Aquatic algae and cyanobacteria
Cinnamic Aldehyde	104-55-2	LC50/96 H	105.764 mg/l	Fish
Cinnamic Aldehyde	104-55-2	LC50/48 H	8.1 mg/l	Aquatic invertebrates
Cinnamic Aldehyde	104-55-2	EC50/48 H	119.558 mg/l	Aquatic invertebrates
Isoamyl Acetate (IUPAC: 3-METHYLBUTYL ACETATE)	123-92-2	LC50/96 H	34 mg/l	Fish
Isoamyl Acetate	123-92-2	EC50/48 H	42 mg/l	Aquatic invertebrates
Geraniol Fine 98% (IUPAC: (2E)-3,7-DIMETHYLOCTA-2,6-DIEN-1-OL)	106-24-1	LC50/96 H	22 mg/l	Zebrafish
Geraniol Fine 98%	106-24-1	EC50/72H	13.1 mg/l	Desmodesmus subspicatus
Geraniol Fine 98%	106-24-1	EC50/48 H	10.8 mg/l	Daphnia magna
Methyl Cedryl Ketone (MCK)	32388-55-9	EC50/96 H	4.3 mg/l	Aquatic algae and cyanobacteria
Methyl Cedryl Ketone (MCK)	32388-55-9	LC50/96 H	3 mg/l	Fish
Methyl Cedryl Ketone (MCK)	32388-55-9	EC50/48 H	860 µg/L	Aquatic invertebrates
Methyl Cedryl Ketone (MCK)	32388-55-9	EC50/21 days	320 µg/L	Aquatic invertebrates
Cis-3-Hexenyl Salicylate (IUPAC: (3Z)-HEX-3-EN-1-YL 2-HYDROXYBENZOATE)	65405-77-8	EC50/72H	610	Aquatic algae and cyanobacteria
Cis-3-Hexenyl Salicylate	65405-77-8	LC50/96 H	3.8 mg/l	Fish
Cis-3-Hexenyl Salicylate	65405-77-8	EC50/48 H	2.7 mg/l	Aquatic invertebrates
Cis-3-Hexenyl Salicylate	65405-77-8	EC50/24H	3.7 mg/l	Aquatic invertebrates
Canthoxal (IUPAC: 3-(4-METHOXYPHENYL)-2-METHYLPROPANAL)	5462-06-6	EC50/72H	26 mg/l	Algae
Canthoxal	5462-06-6	LC50/96 H	5.2 mg/l	Fish
Canthoxal	5462-06-6	EC50/48 H	12 mg/l	Aquatic invertebrates
Linalyl Acetate (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-YL 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
Linalyl Acetate	115-95-7	EC50/48 H	59 mg/l	Aquatic invertebrates
Linalyl Acetate	115-95-7	EC50/24H	71 mg/l	Aquatic invertebrates
Linalyl Acetate	115-95-7	EC50/24H	71 mg/l	Aquatic invertebrates
D-Limonene (IUPAC: (4R)-1-METHYL-4-(PROP-1-EN-2-YL)CYCLOHEX-1-ENE)	5989-27-5 / 8028-48-6	EC50/72H	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	590 mg/l	Fish
D-Limonene	5989-27-5 / 8028-48-6	EC50/96 H	695	Fish
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	EC50/48 H	408.5 mg/l	Aquatic invertebrates
D-Limonene	5989-27-5 / 8028-48-6	EC50/48 H	510 mg/l	Aquatic invertebrates

Ingredient	CAS No.	Test	Result	Species
D-Limonene	5989-27-5 / 8028-48-6	EC50/24H	840 mg/l	Aquatic invertebrates
D-Limonene	5989-27-5 / 8028-48-6	EC50/21 days	188 mg/l	Aquatic invertebrates
Ethanol (IUPAC: ETHANOL)	64-17-5	EC50/72H	275 mg/l	Aquatic algae and cyanobacteria
Ethanol	64-17-5	EC50/96 H	22 000 mg/l	Aquatic algae and cyanobacteria
Ethanol	64-17-5	LC50/96 H	15.4 g/l	Fish
Ethanol	64-17-5	EC50/96 H	12.9 g/l	Fish
Ethanol	64-17-5	LC50/48 H	9.248 g/l	Aquatic invertebrates
Ethanol	64-17-5	EC50/48 H	10 g/l	Aquatic invertebrates
Ethanol	64-17-5	EC50/24H	10 g/l	Aquatic invertebrates
BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)	128-37-0	EC50/72H	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

Chemical name	CAS No.	Partition coefficient (log Pow)
Ethanol (IUPAC: ETHANOL)	64-17-5	0.0005
Isopropyl alcohol (IUPAC: PROPAN-2-OL)	67-63-0	0.1449
Methoxypropanol (propylene glycol methyl ether)	107-98-2	0.6956
Solvenon DPnB (IUPAC: 1-[(1-BUTOXYPROPA N-2-YL)OXY]PROPAN-2-OL)	29911-28-2	1.1594

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 with recognition of a waste code pursuant to Commission Decision 2000/532/EC at an official depot for chemical waste.

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.

Recommendation: Avoid release to the environment.

EWG Code	Description
07	Wastes from organic chemical processes:
07 07	Wastes from the manufacture, formulation, supply and use (MFSU) of fine chemicals and chemical products, n.o.s.
07 07 99	Wastes not otherwise specified

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. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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.

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

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:

H225 – Highly flammable liquid and vapour.

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.

H318 – Causes serious eye damage.

H319 – Causes serious eye irritation.

H336 – May cause drowsiness or dizziness.

H361 – Suspected of damaging fertility or the unborn child (if known state which; state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H370 – Causes damage to organs (or state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H371 – May cause damage to organs (or state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

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.

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

P264 – Wash thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product.

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 and Toxic

vPvB: Very Persistent and very Bioaccumulative

EC: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (a 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

The information contained in this Safety Data Sheet is based on current and reliable sources. However, these data are provided without any express or implied warranty of their accuracy or correctness. Since the conditions for the use, handling, storage and disposal of this product are beyond our control, it is the responsibility of the user to determine both the safe conditions for use and to assume liability for losses, damages and costs arising from improper use. No express or implied warranty in relation to the product described herein is established or implied by any statement or omission in this Safety Data Sheet.

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