Fragrance Autumn Ember 00015691

Lemo Fun SRL

SAFETY DATA SHEET

In accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH), Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008, and Commission Regulation (EU) No 2020/878 of 18 June 2020.

Product name: Fragrance Autumn Ember 00015691

Version: DE 6

Revised: 14.10.2024

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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 chemistry

Trade name: Fragrance Autumn Ember 00015691

Product number: 00015691

UFI Code: Q4FD-410F-U00P-GDSC

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 manufacture only, not for direct consumption as such.

Uses advised against: Do not use in food products.

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

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): +49 621 60-43333

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

FRANCE – INRS FRANCE: +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 in accordance with 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

Causes serious eye irritation: H319

2.2. Label elements

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

Hazard pictograms: GHS07, GHS08, GHS09

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.

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.

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 identified beyond those listed above.

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	%	CAS No.	EC No.	Index No.	REACH No.	Classification (CLP) Regulation (EC) No 1272/2008
Benzyl Benzoate (IUPAC: BENZYL BENZOATE)	<61%	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)	<9.75%	54464-57-2	259-174-3			Aquatic Chronic 2: H411; Skin Sens. 1: H317; Skin Irrit. 2: H315; Eye Irrit. 2: H319
Amber Core (IUPAC: 1-[(2-TERT-BUTYLCYCLOHEXYL)OXY]BUTAN-2-OL)	<3.51%	139504-68-0	412-300-2			Aquatic Chronic 2: H411
Dihydromyrcenol (Myrcetol) (IUPAC: 2,6-DIMETHYLOCT-7-EN-2-OL)	<2.34%	18479-58-8	242-362-4		01-2119457274-37-xxxx	Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H336
Eugenol (IUPAC: 2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL)	<1.95%	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
Florol (IUPAC: 2-(ISOBUTYL)-4-HYDROXY-4-METHYL TETRAHYDROPYRAN)	<1.56%	63500-71-0	405-040-6			Eye Irrit. 2: H319
Musk 50 IPM (IUPAC: 4,6,6,7,8,8-HEXAMETHYL-1H,3H,4H,6H,7H,8H-INDENO[5,6-C]PYRAN)	<1.36%	1222-05-5	214-946-9	603-212-00-7	01-2119488227-29-xxxx	Aquatic Chronic 1: H410; Aquatic Acute 1: H400; M Chr=1
Orange Oil 100% pure and natural (IUPAC: (2Z,6E)-2,6-DIMETHYL-10-METHYLIDENEDODECA-2,6,11-TRIENAL)	<0.97%	8008-57-9 / 8028-48-6	232-433-8		01-2119493353-35-xxxx	Aquatic Chronic 2: H411; Skin Sens. 1: H317; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Asp. Tox. 1: H304
Fixolide (Kevolid, Tonalid) (IUPAC: 1-(3,5,5,6,8,8-HEXAMETHYL-5,6,7,8-TETRAHYDRONAPHTHALEN-2-YL)ETHAN-1-ONE)	<0.78%	21145-77-7 / 1506-02-1	244-240-6 / 216-1		01-2119539433-40-xxxx	Aquatic Chronic 1: H410; Acute Tox. 4 ORAL: H302; Aquatic Acute 1: H400; M=1
Linalool (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-OL)	<0.78%	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
Bacdanol (Sandranol) (IUPAC: (E)-2-ETHYL-4-(2,2,3-TRIMETHYL-1-CYCLOPENT-3-ENYL)BUT-2-EN-1-OL)	<0.58%	28219-61-6 / 106185-75-5	248-908-8			Aquatic Chronic 1: H410; Eye Irrit. 2: H319; M Chr=1
Nuez Moscada Oil (IUPAC: ESSENTIAL OIL EXTRACT OF MYRISTICA FRAGRANS (MYRISTICACEAE) SEED)	<0.58%	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

Ingredient	%	CAS No.	EC No.	Index No.	REACH No.	Classification (CLP) Regulation (EC) No 1272/2008
Linalyl Acetate (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-YL ACETATE)	<0.58%	115-95-7	204-116-4		01-2119454789-19-xxxx	Skin Sens. 1B: H317; Skin Irrit. 2: H315; Eye Irrit. 2: H319
Fir Needle Oil Siberia (IUPAC: ABIES SIBIRICA, ESSENTIAL OIL)	<0.58%	91697-89-1	294-351-9		01-2120738835-44-xxxx	Aquatic Chronic 2: H411; Skin Sens. 1: H317; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Asp. Tox. 1: H304
Citronellyl Formate (IUPAC: 3,7-DIMETHYLOCT-6-EN-1-YL FORMATE)	<0.39%	105-85-1	203-338-9		01-2120132106-71-xxxx	Skin Sens. 1B: H317; Skin Irrit. 2: H315
BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)	<0.2%	128-37-0	204-881-4		01-2119555270-46-0000	Aquatic Chronic 1: H410; M Chr=1
Estragol (IUPAC: 1-METHOXY-4-(PROP-2-EN-1-YL)BENZENE)	<0.19%	140-67-0	205-427-8		01-2120783278-41-xxxx	Skin Sens. 1: H317; Acute Tox. 4 ORAL: H302; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Aquatic Chronic 3: H412; Muta. 2: H341; Carc. 2: H351
Allyl Amyl Glycolate (IUPAC: PROP-2-EN-1-YL 2-(3-METHYLBUTOXY)ACETATE)	<0.19%	67634-00-8	266-803-5		01-2120795456-39-xxxx	Aquatic Chronic 1: H410; Acute Tox. 4 ORAL: H302; Aquatic Acute 1: H400; Acute Tox. 2 INHALATION: H330; M=1; M Chr=1
Pinene Beta (IUPAC: 6,6-DIMETHYL-2-METHYLENEBICYCLO[3.1.1]HEPTANE)	<0.19%	127-91-3	204-872-5		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
Cyclamen Aldehyde (IUPAC: 2-METHYL-3-[4-(PROPAN-2-YL)PHENYL]PROPANAL)	<0.18%	103-95-7	203-161-7		01-2119970582-32-xxxx	Skin Sens. 1B: H317; Skin Irrit. 2: H315; Aquatic Chronic 3: H412; M Chr=1
Helional (Helioven) (IUPAC: 3-(2H-1,3-BENZODIOXOL-5-YL)-2-METHYLPROPANAL)	<0.12%	1205-17-0	214-881-6		01-2120740119-58-xxxx	Aquatic Chronic 2: H411; Skin Sens. 1B: H317; Repr. 2: H361
Veramoss (IUPAC: METHYL 2,4-DIHYDROXY-3,6-DIMETHYLBENZOATE)	<0.12%	4707-47-5	225-193-0		01-2120762759-36-xxxx	Skin Sens. 1B: H317

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation:

Immediately remove the affected person 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:

Immediately remove contaminated clothing 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 widely. 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

Advice for the doctor: 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 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, goggles/face shield, respiratory mask, boots, clothing or apron. No smoking, sparks, flames or other ignition sources near spills.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Cleaning methods: Keep flammable materials away from the spill. Eliminate all ignition sources. Ensure adequate ventilation. Contain and absorb spilled material with sand, earth or other non-combustible materials. The contaminated absorbent material may present the same hazard as the spilled material. Collect and place in suitable disposal containers and seal securely. Label containers with wastes and contaminated materials and remove from the area as quickly as possible. After spilling, wash the area thoroughly.

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

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)

No specific end uses identified beyond those stated in Section 1.2.

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.

Ingredient	CAS No.	TWA, 8 hours

SECTION 8 (continued): EXPOSURE CONTROLS

8.2. Exposure controls

Technical measures: Maintain usual precautions for work 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 respirators. For large-scale exposure, wear suitable respiratory protection. Suitable half-face mask respirator 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 where there is a risk of possible eye contact. Emergency eyewash 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 maintained 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. Apply skin-care products and skin cosmetics after removing gloves. Mechanical protection gloves do not provide protection against chemicals.

Risk management measures: Operators must be adequately 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 stated 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 be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

INHALATION

Acute toxicity: Calculated ATEmix (LC50) = 33.8 mg/l. Components of unknown toxicity >10%: 94.74%. Not classified.

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

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

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

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

SKIN CONTACT

Acute toxicity: Calculated ATEmix (LD50) = 8 059.29 mg/kg. Components of unknown toxicity >10%: 83%. Not classified.

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

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

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

Mutagenicity: Contains no 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) = 2 562.16 mg/kg. Components of unknown toxicity >10%: 20.14%. Not classified.

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

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

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

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

Reproductive toxicity: Not expected to be reproductively toxic. 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.

11.2. Primary irritant effect

11.2.1. Endocrine disrupting properties: Musk 50 IPM (IUPAC: 4,6,6,7,8,8-HEXAMETHYL-1H,3H,4H,6H,7H,8H-INDENO[5,6-C]PYRAN)

11.3. Sensitisation: May have a sensitising effect.

11.4. Chronic effects: No chronic effects known.

11.5. Target organs: No adverse effects on the health of 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 reproductively toxic.

Toxicological data for individual ingredients:

Ingredient name	CAS No.	LD50 (Oral)	LD50 (Dermal)	LC50 (Inhalation)
Benzyl Benzoate (IUPAC: BENZYL BENZOATE)	120-51-4	2 000 mg/kg	not toxic	not toxic
Amber Core (IUPAC: 1-[(2-TERT-BUTYLCYCLOHEXYL)OXY]BUTAN-2-OL)	139504-68-0	not toxic	not toxic	not toxic
Dihydromyrcenol (Myrcetol) (IUPAC: 2,6-DIMETHYLOCT-7-EN-2-OL)	18479-58-8	not toxic	not toxic	not toxic
Eugenol (IUPAC: 2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL)	97-53-0	not toxic	not toxic	not toxic
Florol (IUPAC: 2-(ISOBUTYL)-4-HYDROXY-4-METHYL TETRAHYDROPYRAN)	63500-71-0	not toxic	not toxic	not 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	not toxic	not toxic	not toxic
Orange Oil 100% pure and natural (IUPAC: (2Z,6E)-2,6-DIMETHYL-10-METHYLIDENEDODECA-2,6,11-TRIENAL)	8008-57-9 / 8028-48-6	not toxic	not toxic	not 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	not toxic	not toxic
Linalool (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-OL)	78-70-6	not toxic	not toxic	not toxic
Nuez Moscada Oil (IUPAC: ESSENTIAL OIL EXTRACT OF MYRISTICA FRAGRANS (MYRISTICACEAE) SEED)	8008-45-5 / 84082-68-8	not toxic	not toxic	not toxic
Linalyl Acetate (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-YL ACETATE)	115-95-7	not toxic	not toxic	not toxic
Fir Needle Oil Siberia (IUPAC: ABIES SIBIRICA, ESSENTIAL OIL)	91697-89-1	not toxic	not toxic	not toxic
Citronellyl Formate (IUPAC: 3,7-DIMETHYLOCT-6-EN-1-YL FORMATE)	105-85-1	not toxic	not toxic	not toxic
BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)	128-37-0	not toxic	not toxic	not toxic

Ingredient name	CAS No.	LD50 (Oral)	LD50 (Dermal)	LC50 (Inhalation)
Estragol (IUPAC: 1-METHOXY-4-(PROP-2-EN-1-YL)BENZENE)	140-67-0	2 000 mg/kg	not toxic	not toxic
Allyl Amyl Glycolate (IUPAC: PROP-2-EN-1-YL 2-(3-METHYLBUTOXY)ACETATE)	67634-00-8	500 mg/kg	not toxic	No data
Pinene Beta (IUPAC: 6,6-DIMETHYL-2-METHYLENEBICYCLO[3.1.1]HEPTANE)	127-91-3	not toxic	not toxic	not toxic
Cyclamen Aldehyde (IUPAC: 2-METHYL-3-[4-(PROPAN-2-YL)PHENYL]PROPANAL)	103-95-7	not toxic	not toxic	not toxic
Helional (Helioven) (IUPAC: 3-(2H-1,3-BENZODIOXOL-5-YL)-2-METHYLPROPANAL)	1205-17-0	not toxic	not toxic	not toxic
Veramoss (IUPAC: METHYL 2,4-DIHYDROXY-3,6-DIMETHYLBENZOATE)	4707-47-5	not toxic	not toxic	not toxic

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% = 100.11 ≥ 25 ⇒ Hazardous to the aquatic environment — Chronic Category 2

AQUATIC TOXICITY data for individual ingredients:

Ingredient / CAS No.	Test	Result
Benzyl Benzoate (IUPAC: BENZYL BENZOATE) / 120-51-4	LC50/96 H	2.32 mg/l (Fish)
Benzyl Benzoate / 120-51-4	EC50/24H	4.26 mg/l (Fish)
Benzyl Benzoate / 120-51-4	EC50/72H	311 (Aquatic algae and cyanobacteria)
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	LC50/24H	11 mg/l (Aquatic invertebrates)
Amber Core (IUPAC: 1-[(2-TERT-BUTYLCYCLOHEXYL)OXY]BUTAN-2-OL) / 139504-68-0	LC50/96 H	4.1 mg/l (Fish)
Amber Core / 139504-68-0	LC50/72H	4.1 mg/l (Fish)
Amber Core / 139504-68-0	LC50/48 H	4.1 mg/l (Fish)
Amber Core / 139504-68-0	LC50/24H	9.2 mg/l (Fish)
Amber Core / 139504-68-0	EC50/72H	12 mg/l (Aquatic algae and cyanobacteria)
Amber Core / 139504-68-0	EC50/48 H	5.9 mg/l (Aquatic invertebrates)
Amber Core / 139504-68-0	EC50/24H	9.9 mg/l (Aquatic invertebrates)
Amber Core / 139504-68-0	EC50/21 days	2.4 mg/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)
Eugenol (IUPAC: 2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL) / 97-53-0	LC50/96 H	13 mg/l (Fish)
Eugenol / 97-53-0	LC50/72H	13 mg/l (Fish)
Eugenol / 97-53-0	LC50/48 H	13 mg/l (Fish)
Eugenol / 97-53-0	LC50/24H	13 mg/l (Fish)
Eugenol / 97-53-0	EC50/72H	23 mg/l (Algae)
Eugenol / 97-53-0	EC50/48 H	1.05 mg/l (Aquatic invertebrates)
Florol (IUPAC: 2-(ISOBUTYL)-4-HYDROXY-4-METHYL TETRAHYDROPYRAN) / 63500-71-0	EC50/72H	100 mg/l (Algae)
Florol / 63500-71-0	EC50/48 H	320 mg/l (Aquatic invertebrates)

Ingredient / CAS No.	Test	Result
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	LC50/96 H	950 µg/L (Fish)
Musk 50 IPM / 1222-05-5	EC50/72H	854 µg/L (Aquatic algae and cyanobacteria)
Musk 50 IPM / 1222-05-5	EC50/48 H	300 µg/L (Aquatic invertebrates)
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	LC50/96 H	1.49 mg/l (Fish)
Fixolide / 21145-77-7 / 1506-02-1	EC50/72H	625 µg/L (Aquatic algae and cyanobacteria)
Fixolide / 21145-77-7 / 1506-02-1	EC50/72H	800 µg/L (Aquatic invertebrates)
Linalool (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-OL) / 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	122.5 mg/l (Algae)
Linalool / 78-70-6	EC50/96 H	59 mg/l (Aquatic invertebrates)
Nuez Moscada Oil (IUPAC: ESSENTIAL OIL EXTRACT OF MYRISTICA FRAGRANS (MYRISTICACEAE) SEED) / 8008-45-5 / 84082-68-8	EC50/48 H	590 µg/L (Aquatic invertebrates)
Linalyl Acetate (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-YL 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	EC50/96 H	88.3 mg/l (Aquatic algae and cyanobacteria)
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)
Citronellyl Formate (IUPAC: 3,7-DIMETHYLOCT-6-EN-1-YL FORMATE) / 105-85-1	LC50/96 H	1.3 mg/l (Fish)
Citronellyl Formate / 105-85-1	EC50/72H	3.1 mg/l (Aquatic algae and cyanobacteria)
Citronellyl Formate / 105-85-1	EC50/48 H	7.6 mg/l (Aquatic invertebrates)
BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL) / 128-37-0	LC50/96 H	384.5 µg/L (Fish)
BHT / 128-37-0	EC50/72H	5 120 µg/L (Algae)
BHT / 128-37-0	EC50/96 H	758 µg/L (Algae)
Estragol (IUPAC: 1-METHOXY-4-(PROP-2-EN-1-YL)BENZENE) / 140-67-0	EC50/72H	10.35 mg/l (Aquatic algae and cyanobacteria)
Estragol / 140-67-0	EC50/48 H	17.583 mg/l (Aquatic invertebrates)
Estragol / 140-67-0	EC50/24H	14.3 mg/l (Aquatic invertebrates)
Allyl Amyl Glycolate (IUPAC: PROP-2-EN-1-YL 2-(3-METHYLBUTOXY)ACETATE) / 67634-00-8	LC50/96 H	768 µg/L (Fish)
Allyl Amyl Glycolate / 67634-00-8	EC50/96 H	2.06 mg/l (Aquatic algae and cyanobacteria)
Allyl Amyl Glycolate / 67634-00-8	LC50/48 H	5.09 mg/l (Aquatic invertebrates)
Pinene Beta (IUPAC: 6,6-DIMETHYL-2-METHYLENEBICYCLO[3.1.1]HEPTANE) / 127-91-3	LC50/96 H	591 (Fish)
Pinene Beta / 127-91-3	EC50/96 H	502 (Fish)
Pinene Beta / 127-91-3	LC50/96 H	0.502 mg/l (Fish Pimephales promelas)
Pinene Beta / 127-91-3	LC50/72H	700 (Algae)
Pinene Beta / 127-91-3	EC50/72H	700 (Algae)
Pinene Beta / 127-91-3	LC50/48 H	826 (Algae)
Pinene Beta / 127-91-3	LC50/48 H	1.09 mg/l (Aquatic invertebrates)
Pinene Beta / 127-91-3	EC50/48 H	1.25 mg/l (Aquatic invertebrates)

Ingredient / CAS No.	Test	Result
Cyclamen Aldehyde (IUPAC: 2-METHYL-3-[4-(PROPAN-2-YL)PHENYL]PROPANAL) / 103-95-7	LC50/96 H	1.092 mg/l (Fish)
Cyclamen Aldehyde / 103-95-7	EC50/72H	2.7 mg/l (Algae)
Cyclamen Aldehyde / 103-95-7	EC50/96 H	2.7 mg/l (Algae)
Cyclamen Aldehyde / 103-95-7	EC50/48 H	1.4 mg/l (Aquatic invertebrates)
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)
Veramoss (IUPAC: METHYL 2,4-DIHYDROXY-3,6-DIMETHYLBENZOATE) / 4707-47-5	LC50/96 H	5.2 mg/l (Fish)
Veramoss / 4707-47-5	EC50/96 H	3.3 mg/l (Aquatic algae and cyanobacteria)
Veramoss / 4707-47-5	EC50/48 H	9.3 mg/l (Aquatic invertebrates)

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).

Chemical name	CAS No.	Partition coefficient

SECTION 12 (continued): ECOLOGICAL INFORMATION

12.4. Mobility in soil

The product is partially water-soluble. It adsorbs onto soil and has low mobility.

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

12.5. Results of PBT and vPvB assessment

This mixture contains no substances that meet the PBT or vPvB criteria of Annex XIII of the REACH Regulation.

12.6. Endocrine disrupting properties

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 hazardous waste.

Additional warning: None.

European waste catalogue: Hazardous waste pursuant to Directive 91/689/EEC, to be disposed of in an authorised chemical waste depot under a waste code in accordance with Commission Decision 2000/532/EC.

Local legislation: Disposal should be carried out in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent 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, not otherwise specified
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. Maritime transport in bulk according to IMO instruments

Not applicable. Packaged liquids are not classified as 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 of pregnant workers at work must be observed.

15.2. Chemical safety assessment

Not applicable.

SECTION 16: OTHER INFORMATION

Full text of classifications referred to in Sections 2 or 3, including the 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.

H330 – Fatal if inhaled.

H336 – May cause drowsiness or dizziness.

H341 – Suspected of causing genetic defects.

H350 – May cause cancer.

H351 – Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H361 – Suspected of damaging fertility or the unborn child (state specific effect if known).

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.

Precautionary statements:

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.

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 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

Disclaimer:

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