Fragrance Ylang Ylang 00008815

Lemo Fun SRL

MATERIAL 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.

Trade name: Fragrance Ylang Ylang 00008815

Product number: 00008815

UFI Code: VTDS-X00U-T00S-2NA7

Version No.: EN 6

Date of update: 17.09.2025

Print: 16.10.2025

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

1.1. Product identifier

MIXTURE IDENTIFICATION:

Fragrance, flavour, auto cosmetology, industrial and home chemistry

Trade name: Fragrance Ylang Ylang 00008815

Product number: 00008815

UFI Code: VTDS-X00U-T00S-2NA7

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

RECOMMENDED USE:

Aromatic ingredient for household chemicals and cosmetics. Manufacturing use only, not for direct consumption as such.

USES ADVISED AGAINST:

Do not use in food.

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 contacts

IN CASE OF INTOXICATION:

LATVIA - State fire and rescue service: (+371) 112; (+371) 113;

The national poison information center: +371 67042468;

GERMANY - International emergency number: +49 180 2273-112. Transport Emergency phone number: (24 h service), phone: +49 621 60-43333;

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

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

CZECH REPUBLIC – Klinika pracovního léka■ství VFN a 1. LF UK, Na Bojišti 1, 120 00, Praha 2; 224 91 92 93, 224 91 54 02 (nep■etržit■)

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

H412 – Aquatic Chronic 3

H317 – Skin Sens. 1

H315 – Skin Irrit. 2

Please refer to Section 16 for details.

2.2. Label elements

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

Signal word: Warning

Hazard statements:

H412 – Harmful to aquatic life with long lasting effects.

H317 – May cause an allergic skin reaction.

H315 – Causes skin irritation.

Precautionary statements (Prevention and Intervention):

P273 – Avoid release to the environment.

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

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

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

P264 – Wash thoroughly after handling.

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

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

2.3. Other hazards

No data available.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Mixture of natural, nature identical and synthetic aromatic products.

3.2. Mixtures

Mixture of natural and synthetic aromatic ingredients.

3.2. Hazardous components:

Ingredient	%	CAS No.	EC No.	Index No.	REACH No.	Classification (CLP) Regulation (EC) No 1272/2008
Mineral oil	<28%	8042-47-5	232-455-8	—	—	—
Benzyl Acetate (IUPAC: BENZYL ACETATE)	<4.62%	140-11-4	205-399-7	—	01-2119638272-42-xxxx	Aquatic Chronic 3: H412
Hexyl Cinnamic Aldehyde Alpha (IUPAC: (2E)-2-(PHENYLMETHYLIDENE)OCTANAL)	<3.8%	101-86-0 / 165184-98-5	202-983-3	—	01-2119533092-50-xxxx	Aquatic Chronic 2: H411; Skin Sens. 1: H317; Aquatic Acute 1: H400; M=1; M Chr=1
Linalyl Acetate (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-YL ACETATE)	<2.8%	115-95-7	204-116-4	—	01-2119454789-19-xxxx	Skin Sens. 1B: H317; Skin Irrit. 2: H315; Eye Irrit. 2: H319
Linalool (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-OL)	<1.98%	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
Ethylene Brassylate (IUPAC: 1,4-DIOXACYCLOHEPTADECANE-5,17-DIONE)	<1.68%	105-95-3	203-347-8	—	01-2119976314-33-xxxx	Aquatic Chronic 3: H412
Benzyl Alcohol (IUPAC: PHENYLMETHANOL)	<1.16%	100-51-6	202-859-9	603-057-00-5	01-2119492630-38-xxxx	Acute Tox. 4 ORAL: H302; Acute Tox. 4 INHALATION: H332
Musk Ketone (IUPAC: 1-(4-TERT-BUTYL-2,6-DIMETHYL-3,5-DINITROPHENYL)ETHAN-1-ONE)	<0.68%	81-14-1	201-328-9	—	01-2120766629-37-xxxx	Aquatic Chronic 1: H410; Aquatic Acute 1: H400; Carc. 2: H351
Pinene Alpha (IUPAC: 2,6,6-TRIMETHYLBICYCLO[3.1.1]HEPT-2-ENE)	<0.5%	80-56-8 / 7785-26-4	201-291-9	—	01-2119519223-49-0001	Aquatic Chronic 1: H410; Acute Tox. 4 ORAL: H302; Flam. Liq. 3: H226; Skin Sens. 1B: H317; Skin Irrit. 2: H315; Aquatic Acute 1: H400; Asp. Tox. 1: H304; M Chr=1
Eugenol (IUPAC: 2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL)	<0.5%	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
Benzyl Salicylate (IUPAC: BENZYL 2-HYDROXYBENZOATE)	<0.44%	118-58-1	204-262-9	—	01-2119969442-31-xxxx	Skin Sens. 1B: H317; Eye Irrit. 2: H319; Aquatic Chronic 3: H412
Amberwood F (Boisambrene Forte) (IUPAC: (ETHOXYMETHOXY)CYCLODODECANE)	<0.32%	58567-11-6	261-332-1	—	01-2119971571-34-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)	<0.24%	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
P-Cresol (Paracresol) (IUPAC: 4-METHYLPHENOL)	<0.16%	106-44-5	203-398-6	—	—	Acute Tox. 3 SKIN: H311; Skin Corr. 1B: H314; Acute Tox. 3 ORAL: H301
Indole (IUPAC: 1H-INDOLE)	<0.1%	120-72-9	204-420-7	—	01-2120745892-45-xxxx	Skin Sens. 1: H317; Acute Tox. 3 SKIN: H311; Acute Tox. 4 ORAL: H302; Eye Dam. 1: H318

Ingredient	%	CAS No.	EC No.	Index No.	REACH No.	Classification (CLP) Regulation (EC) No 1272/2008
BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)	<0.04%	128-37-0	204-881-4	—	01-2119555270-46-0000	Aquatic Chronic 1: H410; M Chr=1
Fixolide (Kevolid, Tonalid) (IUPAC: 1-(3,5,5,6,8,8-HEXAMETHYL-5,6,7,8-TETRAHYDRONAPHTHALEN-2-YL)ETHAN-1-ONE)	<0.02%	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

SECTION 4 – FIRST-AID MEASURES

4.1. Description of first aid measures

Inhalation:

Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion:

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

Skin contact:

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

Eye contact:

Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

General information:

Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal 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 doctor: No specific recommendations.

SECTION 5 – FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Extinguish with the following 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 actions during firefighting:

Containers close to fire should be removed or cooled with water.

Special protective equipment for firefighters:

Wear positive-pressure 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 suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. No smoking, sparks, flames or other sources of ignition near spillage. See Section 13.

6.2. Environmental precautions

Environmental precautions:

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

6.4. Reference to other sections

Sections 8 and 13.

SECTION 7 – HANDLING AND STORAGE

7.1. Precautions for safe handling

Usage precautions:

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 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 container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from freezing and direct sunlight.

Storage temperature: from 0 to 30 °C.

7.3. Specific end use(s)

See Sections 1 and 2.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

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

SECTION 8 (continued) – EXPOSURE CONTROLS

ADDITIONAL INFORMATION:

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

8.2. Exposure controls

ENGINEERING MEASURES:

Comply with standard precautionary measures for working with chemicals. See Directive 2004/37/EG on the protection of workers from the risks related to exposure to carcinogens or mutagens at work.

HYGIENIC MEASURES:

When using do not eat, drink or smoke.

GENERAL PROTECTIVE AND HYGIENIC MEASURES:

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

RESPIRATORY PROTECTION:

Avoid excessive inhalation of concentrated vapors. Ensure adequate ventilation. If workers are exposed to high concentrations, they must use appropriate, certified respirators. Wear suitable respiratory protection in case of large scale exposure. Suitable facemask in accordance with EN 140.

BODY PROTECTION:

Protective clothing. Safety showers should be available in the immediate vicinity of any potential exposure. Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN 365/367.

EYE PROTECTION:

Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is danger of possible eye contact. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

HYGIENE MEASURES:

No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

HAND PROTECTION:

Chemical protective gloves according to DIN EN 374 with CE-labelling. Suitable material – nitrile. 0.13 mm. Indication of permeation breakthrough time – 1 hour. Check the condition of protective gloves after each use for any damages like holes, cuts or tears. Do not wear protective gloves longer than necessary. After use of gloves apply skin-cleaning agents and skin cosmetics. Gloves for mechanical protection do not provide protection against chemicals.

RISK MANAGEMENT MEASURES:

The operators shall be instructed adequately. The workplace shall be inspected regularly by competent personnel e.g. the safety representative.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Homogeneous transparent liquid; opalescence is allowed.

Colour: From colourless to brown.

Odour: Fragrance description.

Freezing point: < 0 °C

Boiling point: No data available.

Explosion: Not explosive.

Combustibility: Does not burn.

Lower and upper explosive limits: Not explosive.

Flash point: Does not burn.

Autoignition temperature: No spontaneous combustion.

Decomposition temperature: No data available.

pH: Not stable.

Kinematic viscosity: No data available.

Solubility in alcohol: Soluble.

Solubility in water: Limited solubility.

Partition coefficient n-octanol/water (log mean): No data available.

Steam pressure: No data available.

Density, 20 °C: 0.9 – 1.6 g/cm³

Relative vapour density: No data available.

Flammability: Non-flammable.

Part characteristics: No.

9.2. Other information: No data available.

SECTION 10 – STABILITY AND REACTIVITY

10.1. Reactivity:

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

10.2. Chemical stability:

Under the conditions of use specified in Section 7, the product is stable.

10.3. Possibility of hazardous reactions:

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

10.4. Conditions to avoid:

Contact with incompatible materials.

10.5. Incompatible materials:

Strong acids, strong bases, strong oxidants.

10.6. Hazardous decomposition products:

No decomposition products if storage and handling conditions are followed. In case of fire, hazardous gases may form.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

INHALATION

Acute toxicity: Calculated ATEmix (LC50) = 21.86 mg/l. Ingredients of unknown toxicity >10%: 91.47%. Not classified.

Corrosion/irritation: Classified as Skin irritation, Hazard Category 2.

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

Carcinogenicity: Does not have any classifiable toxicity.

Mutagenicity: Does not have any classifiable toxicity.

SKIN CONTACT

Acute toxicity: Calculated ATEmix (LD50) = 4 916.8 mg/kg. Ingredients of unknown toxicity >10%: 63.98%. Not classified.

Corrosion/irritation: Classified as Skin irritation, Hazard Category 2.

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

Carcinogenicity: Does not have any classifiable toxicity.

Mutagenicity: Does not have any classifiable toxicity.

EYE CONTACT

Corrosion/irritation: Classified as Skin irritation, Hazard Category 2.

INGESTION

Acute toxicity: Calculated ATEmix (LD50) = 3 704.12 mg/kg. Ingredients of unknown toxicity >10%: 56.43%. Not classified.

Corrosion/irritation: Classified as Skin irritation, Hazard Category 2.

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

Carcinogenicity: Does not have any classifiable toxicity.

Mutagenicity: Does not have any classifiable toxicity.

Reprotoxicity: Does not have any classifiable toxicity.

Toxicological information by ingredient:

Ingredient Name	CAS No.	LD50 (oral)	LD50 (Dermal)	LC50 (Inhalation)
Benzyl Acetate (IUPAC: BENZYL ACETATE)	140-11-4	2 000 mg/kg	No data	No data
Hexyl Cinnamic Aldehyde Alpha (IUPAC: (2E)-2-(PHENYLMETHYLIDENE)OCTANAL)	101-86-0 / 165184-98-5	3 100 mg/kg	3 000 mg/kg	3.56 mg/l

Ingredient Name	CAS No.	LD50 (oral)	LD50 (Dermal)	LC50 (Inhalation)
Linalyl Acetate (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-YL ACETATE)	115-95-7	9 000 mg/kg bw	5 000 mg/kg bw	No data
Linalool (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-OL)	78-70-6	2 790 mg/kg	5 610 mg/kg	3 200 mL/kg bw
Ethylene Brassylate (IUPAC: 1,4-DIOXACYCLOHEPTADECANE-5,17-DIONE)	105-95-3	5 000 mg/kg	5 000 mg/kg	No data
Benzyl Alcohol (IUPAC: PHENYLMETHANOL)	100-51-6	1.5 mL/kg bw	No data	No data
Musk Ketone (IUPAC: 1-(4-TERT-BUTYL-2,6-DIMETHYL-3,5-DINITROPHENYL)ETHAN-1-ONE)	81-14-1	5 000 mg/kg	No data	2.99 mg/l
Pinene Alpha (IUPAC: 2,6,6-TRIMETHYLBICYCLO[3.1.1]HEPT-2-ENE)	80-56-8 / 7785-26-4	500 mg/kg	2 000 mg/kg	No data
Eugenol (IUPAC: 2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL)	97-53-0	2 000 mg/kg	No data	No data
Benzyl Salicylate (IUPAC: BENZYL 2-HYDROXYBENZOATE)	118-58-1	3 339 mg/kg	2 000 mg/kg	No data
Amberwood F (Boisambrene Forte) (IUPAC: (ETHOXYMETHOXY)CYCLODODECANE)	58567-11-6	5 000 mg/kg bw	5 000 mg/kg bw	No data
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	No data	>3 250 mg/kg	No data
P-Cresol (Paracresol) (IUPAC: 4-METHYLPHENOL)	106-44-5	207 mg/kg	301 mg/kg	No data
Indole (IUPAC: 1H-INDOLE)	120-72-9	1 000 mg/l	790 mg/kg	No data
BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)	128-37-0	6 000 mg/kg bw	>2 000 mg/kg bw	No data
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	7 940 mg/kg	No data

SECTION 11 (continued) – ADDITIONAL TOXICOLOGICAL DATA

11.2. Primary irritant effect: Skin irritation, Hazard Category 2.

11.2.1. 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), BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL), Fixolide (Kevolid, Tonalid) (IUPAC: 1-(3,5,5,6,8,8-HEXAMETHYL-5,6,7,8-TETRAHYDRONAPHTHALEN-2-YL)ETHAN-1-ONE).

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

11.4. Chronic effect: Classified as Hazardous to the aquatic environment — Chronic Category 3.

11.5. Target organs: Does not have any classifiable toxicity.

11.6. Carcinogenicity: Does not have any classifiable toxicity.

11.7. Mutagenicity: Does not have any classifiable toxicity.

11.8. Reprotoxicity: Does not have any classifiable toxicity.

SECTION 12 – ECOLOGICAL INFORMATION

12.1. Toxicity

Acute: Does not have any classifiable toxicity.

Chronic: Classified as Hazardous to the aquatic environment — Chronic Category 3.

AQUATIC TOXICITY by ingredient:

Ingredient	CAS No.	Test / Duration	Value	Species / Category
Benzyl Acetate (IUPAC: BENZYL ACETATE)	140-11-4	EC50/72H	101 mg/l	Algae
Benzyl Acetate (IUPAC: BENZYL ACETATE)	140-11-4	LC50/96H	4 mg/l	Fish
Benzyl Acetate (IUPAC: BENZYL ACETATE)	140-11-4	EC50/48H	17 mg/l	Aquatic invertebrates
Hexyl Cinnamic Aldehyde Alpha (IUPAC: (2E)-2-(PHENYLMETHYLIDENE)OCTANAL)	101-86-0 / 165184-98-5	EC50/72H	65	Algae
Hexyl Cinnamic Aldehyde Alpha (IUPAC: (2E)-2-(PHENYLMETHYLIDENE)OCTANAL)	101-86-0 / 165184-98-5	LC50/96H	1.7 mg/l	Fish
Hexyl Cinnamic Aldehyde Alpha (IUPAC: (2E)-2-(PHENYLMETHYLIDENE)OCTANAL)	101-86-0 / 165184-98-5	EC50/48H	475	Aquatic invertebrates
Linalyl Acetate (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-YL ACETATE)	115-95-7	EC50/96H	88.3 mg/l	Aquatic algae and cyanobacteria
Linalyl Acetate (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-YL ACETATE)	115-95-7	LC50/96H	11 mg/l	Fish
Linalyl Acetate (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-YL ACETATE)	115-95-7	LC50/	11.14 mg/l	Fish
Linalyl Acetate (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-YL ACETATE)	115-95-7	EC50/48H	59 mg/l	Fish
Linalyl Acetate (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-YL ACETATE)	115-95-7	EC50/48H	59 mg/l	Aquatic invertebrates
Linalyl Acetate (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-YL ACETATE)	115-95-7	EC50/24H	71 mg/l	Aquatic invertebrates
Linalool (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-OL)	78-70-6	EC50/96H	122.5 mg/l	Algae
Linalool (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-OL)	78-70-6	LC50/96H	27.8 mg/l	Fish
Linalool (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-OL)	78-70-6	LC50/72H	27.8 mg/l	Fish
Linalool (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-OL)	78-70-6	LC50/48H	27.8 mg/l	Fish
Linalool (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-OL)	78-70-6	EC50/96H	59 mg/l	Aquatic invertebrates
Ethylene Brassylate (IUPAC: 1,4-DIOXACYCLOHEPTADECANE-5,17-DIONE)	105-95-3	EC50/72H	14.579 mg/l	Aquatic algae and cyanobacteria
Ethylene Brassylate (IUPAC: 1,4-DIOXACYCLOHEPTADECANE-5,17-DIONE)	105-95-3	EC50/96H	788	Aquatic algae and cyanobacteria
Ethylene Brassylate (IUPAC: 1,4-DIOXACYCLOHEPTADECANE-5,17-DIONE)	105-95-3	LC50/96H	2.13 mg/l	Fish
Ethylene Brassylate (IUPAC: 1,4-DIOXACYCLOHEPTADECANE-5,17-DIONE)	105-95-3	LC50/48H	2.67 mg/l	Aquatic invertebrates
Benzyl Alcohol (IUPAC: PHENYLMETHANOL)	100-51-6	EC50/72H	500 mg/l	Algae
Benzyl Alcohol (IUPAC: PHENYLMETHANOL)	100-51-6	EC50/96H	76.828 mg/l	Algae

Ingredient	CAS No.	Test / Duration	Value	Species / Category
Benzyl Alcohol (IUPAC: PHENYLMETHANOL)	100-51-6	LC50/96H	460 mg/l	Fish
Benzyl Alcohol (IUPAC: PHENYLMETHANOL)	100-51-6	LC50/72H	460 mg/l	Fish
Benzyl Alcohol (IUPAC: PHENYLMETHANOL)	100-51-6	LC50/48H	770 mg/l	Fish
Benzyl Alcohol (IUPAC: PHENYLMETHANOL)	100-51-6	LC50/24H	770 mg/l	Fish
Benzyl Alcohol (IUPAC: PHENYLMETHANOL)	100-51-6	LC50/48H	260.415 mg/l	Aquatic invertebrates
Benzyl Alcohol (IUPAC: PHENYLMETHANOL)	100-51-6	EC50/48H	230 mg/l	Aquatic invertebrates
Benzyl Alcohol (IUPAC: PHENYLMETHANOL)	100-51-6	EC50/21 days	66 mg/l	Aquatic invertebrates
Musk Ketone (IUPAC: 1-(4-TERT-BUTYL-2,6-DIMETHYL-3,5-DINITROPHENYL)ETHAN-1-ONE)	81-14-1	EC50/72H	118 µg/L	Aquatic algae and cyanobacteria
Musk Ketone (IUPAC: 1-(4-TERT-BUTYL-2,6-DIMETHYL-3,5-DINITROPHENYL)ETHAN-1-ONE)	81-14-1	LC50/96H	385 µg/L	Fish
Musk Ketone (IUPAC: 1-(4-TERT-BUTYL-2,6-DIMETHYL-3,5-DINITROPHENYL)ETHAN-1-ONE)	81-14-1	LC50/72H	385 µg/L	Fish
Musk Ketone (IUPAC: 1-(4-TERT-BUTYL-2,6-DIMETHYL-3,5-DINITROPHENYL)ETHAN-1-ONE)	81-14-1	LC50/48H	385 µg/L	Fish
Musk Ketone (IUPAC: 1-(4-TERT-BUTYL-2,6-DIMETHYL-3,5-DINITROPHENYL)ETHAN-1-ONE)	81-14-1	LC50/24H	385 µg/L	Fish
Musk Ketone (IUPAC: 1-(4-TERT-BUTYL-2,6-DIMETHYL-3,5-DINITROPHENYL)ETHAN-1-ONE)	81-14-1	EC50/48H	432 µg/L	Aquatic invertebrates
Musk Ketone (IUPAC: 1-(4-TERT-BUTYL-2,6-DIMETHYL-3,5-DINITROPHENYL)ETHAN-1-ONE)	81-14-1	EC50/24H	432 µg/L	Aquatic invertebrates
Pinene Alpha (IUPAC: 2,6,6-TRIMETHYLBICYCLO[3.1.1]HEPT-2-ENE)	80-56-8 / 7785-26-4	LC50/96H	303	Fish
Pinene Alpha (IUPAC: 2,6,6-TRIMETHYLBICYCLO[3.1.1]HEPT-2-ENE)	80-56-8 / 7785-26-4	EC50/48H	475	Aquatic invertebrates
Pinene Alpha (IUPAC: 2,6,6-TRIMETHYLBICYCLO[3.1.1]HEPT-2-ENE)	80-56-8 / 7785-26-4	LC50/24H	1.83 mg/l	Daphnia magna
Eugenol (IUPAC: 2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL)	97-53-0	EC50/72H	23 mg/l	Algae
Eugenol (IUPAC: 2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL)	97-53-0	LC50/96H	13 mg/l	Fish
Eugenol (IUPAC: 2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL)	97-53-0	LC50/72H	13 mg/l	Fish
Eugenol (IUPAC: 2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL)	97-53-0	LC50/48H	13 mg/l	Fish
Eugenol (IUPAC: 2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL)	97-53-0	LC50/24H	13 mg/l	Fish

Ingredient	CAS No.	Test / Duration	Value	Species / Category
Eugenol (IUPAC: 2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL)	97-53-0	EC50/48H	1.05 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 (IUPAC: BENZYL 2-HYDROXYBENZOATE)	118-58-1	LC50/96H	1.03 mg/l	Fish
Benzyl Salicylate (IUPAC: BENZYL 2-HYDROXYBENZOATE)	118-58-1	LC50/48H	2.25 mg/l	Aquatic invertebrates
Benzyl Salicylate (IUPAC: BENZYL 2-HYDROXYBENZOATE)	118-58-1	EC50/48H	1.16 mg/l	Aquatic invertebrates
Benzyl Salicylate (IUPAC: BENZYL 2-HYDROXYBENZOATE)	118-58-1	EC50/24H	1.21 mg/l	Aquatic invertebrates
Benzyl Salicylate (IUPAC: BENZYL 2-HYDROXYBENZOATE)	118-58-1	LC50/24H	4.34 mg/l	Aquatic invertebrates
Amberwood F (Boisambrene Forte) (IUPAC: (ETHOXYMETHOXY)CYCLODODECANE)	58567-11-6	EC50/72H	2 mg/l	Aquatic algae and cyanobacteria
Amberwood F (Boisambrene Forte) (IUPAC: (ETHOXYMETHOXY)CYCLODODECANE)	58567-11-6	LC50/96H	1.9 mg/l	Fish
Amberwood F (Boisambrene Forte) (IUPAC: (ETHOXYMETHOXY)CYCLODODECANE)	58567-11-6	EC50/48H	1.6 mg/l	Aquatic invertebrates
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	EC50/72H	854 µg/L	Aquatic algae and cyanobacteria
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	LC50/96H	950 µg/L	Fish
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	EC50/48H	300 µg/L	Aquatic invertebrates
P-Cresol (Paracresol) (IUPAC: 4-METHYLPHENOL)	106-44-5	EC50/48H	21 mg/l	Aquatic algae and cyanobacteria
P-Cresol (Paracresol) (IUPAC: 4-METHYLPHENOL)	106-44-5	EC50/48H	7.7 mg/l	Aquatic invertebrates
P-Cresol (Paracresol) (IUPAC: 4-METHYLPHENOL)	106-44-5	EC50/96H	5 mg/l	Aquatic invertebrates
P-Cresol (Paracresol) (IUPAC: 4-METHYLPHENOL)	106-44-5	EC50/24H	14 mg/l	Aquatic invertebrates
Indole (IUPAC: 1H-INDOLE)	120-72-9	EC50/96H	37.3 mg/l	Aquatic algae and cyanobacteria
Indole (IUPAC: 1H-INDOLE)	120-72-9	LC50/96H	19.76 mg/l	Fish
Indole (IUPAC: 1H-INDOLE)	120-72-9	LC50/48H	2 mg/l	Aquatic invertebrates
BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)	128-37-0	EC50/72H	5 120 µg/L	Algae
BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)	128-37-0	EC50/96H	758 µg/L	Algae

Ingredient	CAS No.	Test / Duration	Value	Species / Category
BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)	128-37-0	LC50/96H	384.5 µg/L	Fish
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	EC50/72H	625 µg/L	Aquatic algae and cyanobacteria
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	LC50/96H	1.49 mg/l	Fish
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	EC50/72H	800 µg/L	Aquatic invertebrates

Ingredient	CAS No.	Partition Coefficient
Mineral oil	8042-47-5	1.1480

SECTION 12 (continued) – ECOLOGICAL INFORMATION

12.2. Persistence and degradability:

May cause long-term adverse effects in the aquatic environment.

ASSESSMENT BIODEGRADATION AND ELIMINATION:

No data available.

12.3. Bioaccumulative potential:

No further relevant information available. Low potential for bioaccumulation: logPow>4 (log Pow calculated = 85.83).

12.4. Mobility in soil:

No data available.

GENERAL NOTES: —

12.5. Results of PBT and vPvB assessment:

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

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), BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL), Fixolide (Kevolid, Tonalid) (IUPAC: 1-(3,5,5,6,8,8-HEXAMETHYL-5,6,7,8-TETRAHYDRONAPHTHALEN-2-YL)ETHAN-1-ONE).

12.7. Other adverse effects:

Global Warming Potential: Does not 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 pour residues into the municipal sewage system.

Additional warning:

None.

European waste catalogue:

Dispose of according to directives: 2008/98/ES; 94/62/ES; 2014/955/EU; 2008/98/ES.

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
15 02 02*	Absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances

SECTION 13 (continued) – DISPOSAL CONSIDERATIONS

CONTAMINATED PACKAGING:

Hand over the packaging left after use to the person responsible for the disposal of hazardous 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

Danger label: 9

14.4. Packing group — ADR, IATA, IMDG: III

14.5. Environmental hazards:

MARINE POLLUTANT: Yes

14.6. Special precautions for user:

Read MSDS and emergency procedures before handling.

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

Not established. Packaged liquids are not considered bulk.

SECTION 15 – REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for 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.

Directive 2008/98/EC of the European Parliament and of the Council on waste and on the repeal of certain Directives.

Directive 94/62/EC of the European Parliament and of the Council on packaging and packaging waste.

Commission Decision 2014/955/EU amending Decision 2000/532/EC on the list of wastes pursuant to Directive of the European Parliament and of the Council 2008/98/EC (EU Waste Catalogue).

INFORMATION ABOUT LIMITATION OF USE:

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

Take note of Directive 92/85/EC on the safety and health of pregnant women at work.

15.2. Chemical safety assessment:

Not applicable.

SECTION 16 – OTHER INFORMATION

Full text of the classifications, including the indication of danger, the hazard symbols and the hazard statements, mentioned in Section 2 or 3:

Revisions are mentioned by a black stroke in left margin.

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

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

LC50: Median (50%) lethal concentration

LD50: Median (50%) lethal dose

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 Bulk Chemical Code

MARPOL: International Convention for the Prevention of Pollution From Ships

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

UN: United Nations

ATE: Acute Toxicity Estimate

DNEL: Derived No-Effect Level

PNEC: Predicted No-Effect Concentration

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