Fragrance Spicy Orange 00014342

Lemo Fun SRL



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

Safety Data Sheet

In accordance with Regulation (EC) No 1907/2006 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.

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Field	Details
Trade Name	Fragrance Spicy Orange 00014342
Product Number	00014342
UFI Code	FAQ8-A1VX-P005-4HE8
Product Definition	Mixture
Identified Use	Aromatic ingredient for household chemicals and cosmetics. Intended for manufacturing only, not for direct consumption as such.
Uses Advised Against	Do not use in foodstuffs.
Supplier	Lemo Fun SRL
Address	Nicolae Licaret 6, Bucharest, Romania
Phone	+40784943113
Email	info@shoplumanari.ro
Website	www.shoplumanari.ro

1.4 Emergency Telephone Numbers

IN CASE OF POISONING:

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), Tel: +49 621 60-43333;

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

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

FOR OTHER EU COUNTRIES please consult: http://echa.europa.eu/help/nationalhelp_contact_en.asp

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification according to Regulation (EC) No 1272/2008 (CLP):

Product Definition: Mixture

Toxic to aquatic life with long-lasting effects. H411

May cause an allergic skin reaction. H317

Causes skin irritation. H315

2.2 Label Elements

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

Signal Word: Warning

Hazard Statements:

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

H317 – May cause an allergic skin reaction.

H315 – Causes skin irritation.

Precautionary Statements:

P273 – Avoid release to the environment.

P261 – Avoid breathing dust/fumes/gas/mist/vapours/spray. [As modified by IV ATP]

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

P280 – Wear protective gloves/protective clothing/eye protection/face protection. [As modified by IV ATP]

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 other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Mixture of natural, nature-identical and synthetic aroma 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)	<70%	CAS: 120-51-4 EC: 204-402-9	Index: — REACH: 01-2119976371-33-xxxx	Aquatic Chronic 2: H411 Acute Tox. 4 ORAL: H302 Aquatic Acute 1: H400
Orange Oil 100% pure and natural (IUPAC: (2Z,6E)-2,6-DIMETHYL-10-METHYLIDENEDODECA-2,6,11-TRIENAL)	<11.6%	CAS: 8008-57-9 / 8028-48-6 EC: 232-433-8	Index: — REACH: 01-2119493353-35-xxxx	Aquatic Chronic 2: H411 Skin Sens. 1: H317 Flam. Liq. 3: H226 Skin Irrit. 2: H315 Asp. Tox. 1: H304
Cinnamic Aldehyde (IUPAC: (2E)-3-PHENYLPROP-2-ENAL)	<2.1%	CAS: 104-55-2 EC: 203-213-9	Index: — REACH: 01-2119935242-45-xxxx	Skin Sens. 1: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319 Aquatic Chronic 3: H412
D-Limonene (IUPAC: (4R)-1-METHYL-4-(PROP-1-EN-2-YL)CYCLOHEX-1-ENE)	<2.1%	CAS: 5989-27-5 / 8028-48-6 EC: 227-813-5	Index: 601-096-00-2 REACH: 01-2119529223-47-xxxx	Flam. Liq. 3: H226 Skin Sens. 1B: H317 Skin Irrit. 2: H315 Aquatic Acute 1: H400 Asp. Tox. 1: H304 Aquatic Chronic 3: H412 M=1

Ingredient	%	CAS No. / EC No.	Index No. / REACH No.	Classification (CLP) — Regulation (EC) No 1272/2008
Pinene Alpha (IUPAC: 2,6,6-TRIMETHYLBICYCLO[3.1.1]HEPT-2-ENE)	<1.58%	CAS: 80-56-8 / 7785-26-4 EC: 201-291-9	Index: — REACH: 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
Terpinene Gamma (IUPAC: 1-METHYL-4-(PROPAN-2-YL)CYCLOHEXA-1,4-DIENE)	<1.49%	CAS: 99-85-4 EC: 202-794-6	Index: — REACH: 01-2120780478-40-xxxx	Aquatic Chronic 2: H411 Flam. Liq. 3: H226 Repr. 2: H361
Vertenex (PTBCH Acetate) (IUPAC: 4-TERT-BUTYLCYCLOHEXYL ACETATE)	<1.35%	CAS: 32210-23-4 EC: 250-954-9	Index: — REACH: 01-2119976286-24-xxxx	Skin Sens. 1B: H317
Aldehyde C-10 (IUPAC: DECANAL)	<1.21%	CAS: 112-31-2 EC: 203-957-4	Index: — REACH: 01-2119967771-26-xxxx	Eye Irrit. 2: H319 Aquatic Chronic 3: H412
Linalool (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-OL)	<0.85%	CAS: 78-70-6 EC: 201-134-4	Index: 603-235-00-2 REACH: 01-2119474016-42-xxxx	Skin Sens. 1B: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319
Citral (IUPAC: (2E)-3,7-DIMETHYLOCTA-2,6-DIENAL)	<0.81%	CAS: 5392-40-5 EC: 226-394-6	Index: — REACH: 01-2119462829-23-xxxx	Skin Sens. 1B: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319
Globalide (Habanolide) (IUPAC: OXACYCLOHEXADECEN-2-ONE)	<0.58%	CAS: 34902-57-3 / 111879-80-2 EC: 422-320-3	Index: — REACH: —	Aquatic Chronic 1: H410 Aquatic Chronic 2: H411 Aquatic Acute 1: H400
Aldehyde C-8 (IUPAC: OCTANAL)	<0.56%	CAS: 124-13-0 EC: 204-683-8	Index: — REACH: 01-2119638274-38-xxxx	Flam. Liq. 3: H226 Skin Sens. 1B: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319
Ocimene CIS (IUPAC: (3E)-3,7-DIMETHYLOCTA-1,3,6-TRIENE)	<0.48%	CAS: 13877-91-3 EC: 237-641-2	Index: — REACH: 01-2120739475-47-xxxx	Aquatic Chronic 2: H411 Flam. Liq. 3: H226 Skin Irrit. 2: H315 Aquatic Acute 1: H400 Asp. Tox. 1: H304 M=1
Mandarine oil green (IUPAC: CITRUS RETITCULATA LEAF OIL)	<0.42%	CAS: 8008-31-9 / 84929-38-4 EC: 284-521-0	Index: — REACH: 01-2120074120-72-xxxx	Aquatic Chronic 2: H411 Skin Sens. 1: H317 Flam. Liq. 3: H226 Skin Irrit. 2: H315 Asp. Tox. 1: H304
Eugenol (IUPAC: 2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL)	<0.3%	CAS: 97-53-0 EC: 202-589-1	Index: — REACH: 01-2119971802-33-xxxx	Skin Sens. 1B: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319 Asp. Tox. 1: H304
Cinnamic Alcohol (IUPAC: (2E)-3-PHENYLPROP-2-EN-1-OL)	<0.3%	CAS: 104-54-1 EC: 203-212-3	Index: — REACH: —	Aquatic Chronic 2: H411 Skin Sens. 1: H317 Skin Irrit. 2: H315
Terpinolene (IUPAC: 1-METHYL-4-(PROPAN-2-YLIDENE)CYCLOHEX-1-ENE)	<0.18%	CAS: 586-62-9 EC: 209-578-0	Index: — REACH: 01-2119982325-32-xxxx	Aquatic Chronic 1: H410 Skin Sens. 1B: H317 Aquatic Acute 1: H400 Asp. Tox. 1: H304 M=1
Pinene Beta (IUPAC: 6,6-DIMETHYL-2-METHYLENEBICYCLO[3.1.1]HEPTANE)	<0.15%	CAS: 127-91-3 EC: 204-872-5	Index: — REACH: 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
Para Cymene (IUPAC: 1-METHYL-4-(PROPAN-2-YL)BENZENE)	<0.13%	CAS: 99-87-6 / 1197-01-9 EC: 202-796-7	Index: — REACH: 01-2119881770-31-xxxx	Aquatic Chronic 2: H411 Flam. Liq. 3: H226 Skin Irrit. 2: H315 Eye Irrit. 2: H319 Asp. Tox. 1: H304 STOT SE 3: H335 Repr. 2: H361 Acute Tox. 3 INHALATION: H331
BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)	<0.11%	CAS: 128-37-0 EC: 204-881-4	Index: — REACH: 01-2119555270-46-0000	Aquatic Chronic 1: H410 M Chr=1
Isoamyl Acetate (IUPAC: 3-METHYLBUTYL ACETATE)	<0.07%	CAS: 123-92-2 EC: 204-662-3	Index: — REACH: 01-2119548408-32-xxxx	Flam. Liq. 3: H226
Benzyl Acetate (IUPAC: BENZYL ACETATE)	<0.03%	CAS: 140-11-4 EC: 205-399-7	Index: — REACH: 01-2119638272-42-xxxx	Aquatic Chronic 3: H412
Alcohol C-10 (IUPAC: DECAN-1-OL)	<0.02%	CAS: 112-30-1 EC: 203-956-9	Index: — REACH: 01-2119480407-35-xxxx	Eye Irrit. 2: H319 Aquatic Chronic 3: H412

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Inhalation:

Immediately move 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 wide apart. 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:

Note to 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 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:

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, watercourses or onto the ground.

6.3 Methods and Material for Containment and Cleaning Up:

Keep combustible 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 may pose 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. Wash thoroughly after spill.

6.4 Reference to Other Sections:

See Sections 8 and 13 for further 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 tightly closed original containers in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from frost and direct sunlight.

7.3 Specific End Use(s):

Aromatic ingredient for household chemicals and cosmetics.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

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

Occupational Exposure Limits:

Ingredient	CAS No.	TWA, 8 hours
Isoamyl Acetate (IUPAC: 3-METHYLBUTYL ACETATE)	123-92-2	TWA = 270* mg/m³
Alcohol C-10 (IUPAC: DECAN-1-OL)	112-30-1	TWA = 10* mg/m³
Benzyl Acetate (IUPAC: BENZYL ACETATE)	140-11-4	TWA = 5* mg/m³

Note
* 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 normal 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.

Hygienic Measures: Do not eat, drink or smoke when using this product.

General Protective and Hygienic Measures:

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

Respiratory Protection:

Avoid excessive inhalation of concentrated vapours. Ensure adequate ventilation. If workers are exposed to high concentrations, they must use appropriate certified respiratory protection masks. Wear suitable respiratory protection in case of large-scale exposure. Suitable mouth/nose guard according to EN 140.

Body Protection:

Protective clothing. Emergency showers should be available in close proximity to any potential exposure. Wear appropriate protective clothing, overalls or suits and similar boots according to EN 365/367.

Eye Protection:

Wear appropriate safety spectacles with side shields according to EN 166 where there is a risk of possible eye contact. Emergency eyewash fountains should be available in close proximity to any potential exposure.

Hygienic 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 display – 1 hour. Check the condition of protective gloves after each use for damage such as holes, cuts or tears. Do not wear protective gloves longer than necessary. After wearing gloves, apply skin 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 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

9.2 Other Information

No further relevant information available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

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

10.2 Chemical Stability:

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

10.3 Possibility of Hazardous Reactions:

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

10.4 Conditions to Avoid:

Contact with incompatible materials.

10.5 Incompatible Materials:

Strong acids, strong bases, strong oxidising agents.

10.6 Hazardous Decomposition Products:

No decomposition products are formed under storage and handling conditions. In the event of fire, hazardous gases may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

INHALATION:

Acute Toxicity: Calculated ATEmix (LC50) = 50.45 mg/l. Components of unknown toxicity >10%: 96.71%. 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) = 4 398.51 mg/kg. Components of unknown toxicity >10%: 75.85%. 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) = 2 234.88 mg/kg. Components of unknown toxicity >10%: 4.31%. 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 a reproductive hazard. Not classified — based on available data, the classification criteria are not met. Fertility: Not classified — based on available data, the classification criteria are not met.

Toxicological Data:

Ingredient	CAS No.	LD50 (Oral)	LD50 (Dermal)	LC50 (Inhalation)
Benzyl Benzoate (IUPAC: BENZYL BENZOATE)	120-51-4	2 000 mg/kg	non-toxic	non-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	non-toxic	non-toxic	non-toxic
Cinnamic Aldehyde (IUPAC: (2E)-3-PHENYLPROP-2-ENAL)	104-55-2	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
Pinene Alpha (IUPAC: 2,6,6-TRIMETHYLBICYCLO[3.1.1]HEPT-2-ENE)	80-56-8 / 7785-26-4	500 mg/kg	non-toxic	non-toxic
Terpinene Gamma (IUPAC: 1-METHYL-4-(PROPAN-2-YL)CYCLOHEXA-1,4-DIENE)	99-85-4	non-toxic	non-toxic	non-toxic
Aldehyde C-10 (IUPAC: DECANAL)	112-31-2	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
Aldehyde C-8 (IUPAC: OCTANAL)	124-13-0	non-toxic	non-toxic	non-toxic
Ocimene CIS (IUPAC: (3E)-3,7-DIMETHYLOCTA-1,3,6-TRIENE)	13877-91-3	non-toxic	non-toxic	non-toxic
Mandarine oil green (IUPAC: CITRUS RETITCULATA LEAF OIL)	8008-31-9 / 84929-38-4	non-toxic	non-toxic	non-toxic

Ingredient	CAS No.	LD50 (Oral)	LD50 (Dermal)	LC50 (Inhalation)
Eugenol (IUPAC: 2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL)	97-53-0	non-toxic	non-toxic	non-toxic
Cinnamic Alcohol (IUPAC: (2E)-3-PHENYLPROP-2-EN-1-OL)	104-54-1	non-toxic	non-toxic	non-toxic
Terpinolene (IUPAC: 1-METHYL-4-(PROPAN-2-YLIDENE)CYCLOHEX-1-ENE)	586-62-9	non-toxic	non-toxic	non-toxic
Pinene Beta (IUPAC: 6,6-DIMETHYL-2-METHYLENEBICYCLO[3.1.1]HEPTANE)	127-91-3	non-toxic	non-toxic	non-toxic
Para Cymene (IUPAC: 1-METHYL-4-(PROPAN-2-YL)BENZENE)	99-87-6 / 1197-01-9	non-toxic	non-toxic	No data
BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)	128-37-0	non-toxic	non-toxic	non-toxic
Isoamyl Acetate (IUPAC: 3-METHYLBUTYL ACETATE)	123-92-2	non-toxic	non-toxic	non-toxic
Benzyl Acetate (IUPAC: BENZYL ACETATE)	140-11-4	non-toxic	non-toxic	non-toxic
Alcohol C-10 (IUPAC: DECAN-1-OL)	112-30-1	non-toxic	non-toxic	non-toxic

11.2 – 11.8 Additional Toxicological Information

11.2.1 Endocrine Disrupting Properties: BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)

11.3 Sensitisation: May have a sensitising effect.

11.4 Chronic Effects: No chronic effects known.

11.5 Target Organs: No adverse effects on target organ health are expected for the finished product.

11.6 Carcinogenicity: The finished product is not expected to be carcinogenic.

11.7 Mutagenicity: The finished product is not expected to be mutagenic.

11.8 Reproductive Toxicity: The finished product is not expected to be a reproductive hazard.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

No ecotoxicological research has been carried out on this product.

Ecotoxicity — Toxic to aquatic organisms: (M × 10 × Chronic Category 1) + Chronic Category 2 ≥ 25% = 104.13 ≥ 25 ⇒ Hazardous to the aquatic environment — Chronic Category 2

Ingredient Toxicity — Aquatic Toxicity:

Substance	CAS No.	Test	Result	Species/Notes
Benzyl Benzoate (IUPAC: BENZYL BENZOATE)	120-51-4	EC50/72H	311	Aquatic algae and cyanobacteria
Benzyl Benzoate	120-51-4	LC50/48H	7.77 mg/l	Aquatic invertebrates
Benzyl Benzoate	120-51-4	EC50/48H	3.09 mg/l	Aquatic invertebrates
Benzyl Benzoate	120-51-4	LC50/24H	11 mg/l	Aquatic invertebrates
Benzyl Benzoate	120-51-4	LC50/96H	2.32 mg/l	Fish
Benzyl Benzoate	120-51-4	EC50/24H	4.26 mg/l	Fish
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	LC50/48H	8.1 mg/l	Aquatic invertebrates
Cinnamic Aldehyde	104-55-2	EC50/48H	119.558 mg/l	Aquatic invertebrates
Cinnamic Aldehyde	104-55-2	LC50/96H	105.764 mg/l	Fish

Substance	CAS No.	Test	Result	Species/Notes
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	EC50/48H	250 mg/l	Aquatic algae and cyanobacteria
D-Limonene	5989-27-5 / 8028-48-6	EC50/48H	250	Algae
D-Limonene	5989-27-5 / 8028-48-6	EC50/48H	510 mg/l	Aquatic invertebrates
D-Limonene	5989-27-5 / 8028-48-6	EC50/48H	408.5 mg/l	Aquatic invertebrates
D-Limonene	5989-27-5 / 8028-48-6	EC50/24H	840 mg/l	Aquatic invertebrates
D-Limonene	5989-27-5 / 8028-48-6	EC50/21days	188 mg/l	Aquatic invertebrates
D-Limonene	5989-27-5 / 8028-48-6	LC50/96H	720 mg/l	Fish
D-Limonene	5989-27-5 / 8028-48-6	EC50/96H	702 mg/l	Fish
D-Limonene	5989-27-5 / 8028-48-6	LC50/96H	590 mg/l	Fish
D-Limonene	5989-27-5 / 8028-48-6	EC50/96H	695	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	80-56-8 / 7785-26-4	LC50/24H	1.83 mg/l	Daphnia magna
Pinene Alpha	80-56-8 / 7785-26-4	LC50/96H	303	Fish
Terpinene Gamma (IUPAC: 1-METHYL-4-(PROPAN-2-YL)CYCLOHEXA-1,4-DIENE)	99-85-4	EC50/72H	10.82 mg/l	Algae
Terpinene Gamma	99-85-4	EC50/48H	10.189 mg/l	Aquatic invertebrates
Terpinene Gamma	99-85-4	EC50/96H	2.792	Fish
Vertenex (PTBCH Acetate) (IUPAC: 4-TERT-BUTYLCYCLOHEXYL ACETATE)	32210-23-4	EC50/72H	22 mg/l	Algae
Vertenex (PTBCH Acetate)	32210-23-4	EC50/48H	5.3 mg/l	Aquatic invertebrates
Vertenex (PTBCH Acetate)	32210-23-4	LC50/96H	8.6 mg/l	Fish
Aldehyde C-10 (IUPAC: DECANAL)	112-31-2	EC50/72H	3.145 mg/l	Algae
Aldehyde C-10	112-31-2	EC50/48H	1.555 mg/l	Aquatic invertebrates
Aldehyde C-10	112-31-2	LC50/96H	1.775 mg/l	Fish
Linalool (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-OL)	78-70-6	EC50/96H	122.5 mg/l	Algae
Linalool	78-70-6	EC50/96H	59 mg/l	Aquatic invertebrates
Linalool	78-70-6	LC50/96H	27.8 mg/l	Fish
Linalool	78-70-6	LC50/48H	27.8 mg/l	Fish
Linalool	78-70-6	LC50/72H	27.8 mg/l	Fish
Citral (IUPAC: (2E)-3,7-DIMETHYLOCTA-2,6-DIENAL)	5392-40-5	EC50/72H	103.8 mg/l	Algae
Citral	5392-40-5	LC50/96H	6.78 mg/l	Fish
Aldehyde C-8 (IUPAC: OCTANAL)	124-13-0	EC50/72H	5 360	Algae
Aldehyde C-8	124-13-0	LC50/48H	3.48	Aquatic invertebrates
Aldehyde C-8	124-13-0	EC50/48H	1.54 mg/l	Aquatic invertebrates
Ocimene CIS (IUPAC: (3E)-3,7-DIMETHYLOCTA-1,3,6-TRIENE)	13877-91-3	EC50/48H	342 mg/l	Aquatic algae and cyanobacteria
Ocimene CIS	13877-91-3	EC50/48H	1.47 mg/l	Aquatic invertebrates
Ocimene CIS	13877-91-3	EC50/24H	1.792 mg/l	Aquatic invertebrates
Mandarine oil green (IUPAC: CITRUS RETITCULATA LEAF OIL)	8008-31-9 / 84929-38-4	EC50/72H	610 µg/L	Aquatic algae and cyanobacteria
Eugenol (IUPAC: 2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL)	97-53-0	EC50/72H	23 mg/l	Algae
Eugenol	97-53-0	EC50/48H	1.05 mg/l	Aquatic invertebrates
Eugenol	97-53-0	LC50/96H	13 mg/l	Fish
Eugenol	97-53-0	LC50/72H	13 mg/l	Fish

Substance	CAS No.	Test	Result	Species/Notes
Eugenol	97-53-0	LC50/48H	13 mg/l	Fish
Eugenol	97-53-0	LC50/24H	13 mg/l	Fish
Cinnamic Alcohol (IUPAC: (2E)-3-PHENYLPROP-2-EN-1-OL)	104-54-1	EC50/72H	129.34 mg/l	Aquatic algae and cyanobacteria
Cinnamic Alcohol	104-54-1	EC50/96H	59.906 mg/l	Aquatic algae and cyanobacteria
Cinnamic Alcohol	104-54-1	LC50/48H	85.398 mg/l	Aquatic invertebrates
Cinnamic Alcohol	104-54-1	EC50/48H	109.287 mg/l	Aquatic invertebrates
Cinnamic Alcohol	104-54-1	LC50/96H	9 mg/l	Fish
Terpinolene (IUPAC: 1-METHYL-4-(PROPAN-2-YLIDENE)CYCLOHEX-1-ENE)	586-62-9	EC50/72H	11 690 mg/l	Aquatic algae and cyanobacteria
Terpinolene	586-62-9	EC50/72H	11 690	Aquatic algae and cyanobacteria
Terpinolene	586-62-9	EC50/96H	3.95 mg/l	Aquatic algae and cyanobacteria
Terpinolene	586-62-9	EC50/96H	3.95 mg/l	Aquatic algae and cyanobacteria
Terpinolene	586-62-9	EC50/48H	14 850 mg/l	Aquatic invertebrates
Terpinolene	586-62-9	LC50/48H	2 550 mg/l	Aquatic invertebrates
Terpinolene	586-62-9	LC50/48H	2 550	Aquatic invertebrates
Terpinolene	586-62-9	LC50/96H	18 000 mg/l	Fish
Terpinolene	586-62-9	EC50/96H	1 480 mg/l	Fish
Terpinolene	586-62-9	LC50/96H	18 000 mg/l	Fish
Terpinolene	586-62-9	EC50/96H	1 480	Fish
Pinene Beta (IUPAC: 6,6-DIMETHYL-2-METHYLENEBICYCLO[3.1.1]HEPTANE)	127-91-3	LC50/72H	700	Algae
Pinene Beta	127-91-3	EC50/72H	700	Algae
Pinene Beta	127-91-3	LC50/48H	826	Algae
Pinene Beta	127-91-3	LC50/48H	1.09 mg/l	Aquatic invertebrates
Pinene Beta	127-91-3	EC50/48H	1.25 mg/l	Aquatic invertebrates
Pinene Beta	127-91-3	LC50/96H	591	Fish
Pinene Beta	127-91-3	EC50/96H	502	Fish
Pinene Beta	127-91-3	LC50/96H	0.502 mg/l	Fish Pimephales promelas
Para Cymene (IUPAC: 1-METHYL-4-(PROPAN-2-YL)BENZENE)	99-87-6 / 1197-01-9	LC50/72H	0.26 mg/l	Cyprinodon variegatus
Para Cymene	99-87-6 / 1197-01-9	LC50/48H	0.3 mg/l	Cyprinodon variegatus
Para Cymene	99-87-6 / 1197-01-9	LC50/96H	0.28 mg/l	Cyprinodon variegatus
Para Cymene	99-87-6 / 1197-01-9	LC50/24H	0.26 mg/l	Cyprinodon variegatus
Para Cymene	99-87-6 / 1197-01-9	LC50/48H	0.81 mg/l	Daphnia magna
Para Cymene	99-87-6 / 1197-01-9	LC50/24H	0.97 mg/l	Daphnia magna
Para Cymene	99-87-6 / 1197-01-9	LC50/96H	82 mg/l	Fish
BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)	128-37-0	EC50/72H	5 120 µg/L	Algae
BHT	128-37-0	EC50/96H	758 µg/L	Algae
BHT	128-37-0	LC50/96H	384.5 µg/L	Fish
Isoamyl Acetate (IUPAC: 3-METHYLBUTYL ACETATE)	123-92-2	EC50/48H	42 mg/l	Aquatic invertebrates
Isoamyl Acetate	123-92-2	LC50/96H	34 mg/l	Fish
Benzyl Acetate (IUPAC: BENZYL ACETATE)	140-11-4	EC50/72H	101 mg/l	Algae
Benzyl Acetate	140-11-4	EC50/48H	17 mg/l	Aquatic invertebrates
Benzyl Acetate	140-11-4	LC50/96H	4 mg/l	Fish

Substance	CAS No.	Test	Result	Species/Notes
Alcohol C-10 (IUPAC: DECAN-1-OL)	112-30-1	EC50/72H	1.5 mg/l	Algae
Alcohol C-10	112-30-1	LC50/96H	3.1 mg/l	Aquatic invertebrates
Alcohol C-10	112-30-1	LC50/96H	2.4 mg/l	Fish

12.2 – 12.7 Additional Ecological Information

12.2 Persistence and Degradability:

May have long-lasting 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 calculated = 0)

12.4 Mobility in Soil:

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

General note: Effluents 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:

BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)

12.7 Other Adverse Effects:

Greenhouse Potential: Cannot contribute to the greenhouse effect.

Chemical Name	CAS No.	Partition Coefficient
No data provided	—	—

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; dispose of under a waste code according to Commission Decision 2000/532/EC at an authorised chemical waste depot.

Local Legislation:

Disposal should be 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 observed.

Recommendation: Avoid release to the environment.

EWC Code	Description
07	Wastes from organic chemical processes:
07 07	Wastes from the MFSU of fine chemicals and chemical products, n.o.s.
07 07 99	Wastes, n.o.s.

SECTION 14: TRANSPORT INFORMATION

Parameter	Details
14.1 UN Number	UN 3082
14.2 UN Proper Shipping Name	UN 3082 Environmentally hazardous substance, liquid, N.O.S.
14.3 Transport Hazard Class(es) — ADR, IATA, IMDG	Class 9 / Hazard label: 9
14.4 Packing Group — ADR, IATA, IMDG	III
14.5 Environmental Hazards — Marine Pollutant	Yes
14.6 Special Precautions for User	Read the Safety Data Sheet and emergency procedures before handling.
14.7 Maritime Transport in Bulk According to IMO Instruments	Not applicable. Packaged liquids are not considered bulk liquids.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific 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.

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 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 the hazard class name, 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.

H331 – Toxic if inhaled.

H335 – May cause respiratory irritation.

H361 – Suspected of damaging fertility or the unborn child (if applicable, state which).

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:

P261 – Avoid breathing dust/fumes/gas/mist/vapours/spray. [As modified by IV ATP]

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. [As modified by IV ATP]

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

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

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

Abbreviations and Acronyms:

PBT: Persistent, bioaccumulative, toxic

vPvB: Very persistent, very bioaccumulative

EC: European inventory of existing commercial chemical substances

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

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

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

EC50: Effective concentration, 50 percent

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

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

TWA: Time-weighted average

IBC Code: International 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:

The information contained in this Safety Data Sheet is taken from current and reliable sources. However, this data is provided without any express or implied warranty as to its accuracy or correctness. Since conditions for the use, handling, storage and disposal of this product are beyond our control, it is the responsibility of the user to determine safe conditions for use and to assume liability for losses, damages and costs arising from improper use. No express or implied warranty with respect to the product described herein is established or implied by statements or omissions in this Safety Data Sheet.

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