



Rustic Escentuals™ Ancient Waters Fragrance Oil

Safety Data Sheet

According to Feder Register | Vol. 77, No. 58 | Monday, March 26, 2012 | Rules & Regulations
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Version: 2.1

SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Name Rustic Escentuals™ Ancient Waters Fragrance Oil
Product Form Mixture

1.2 RECOMMENDED USE AND RESTRICTIONS ON USE

No additional information available

1.3 NAME, ADDRESS, AND TELEPHONE OF THE RESPONSIBLE PARTY

Supplier Details IndiMade Brands, LLC DBA Wholesale Supplies Plus
7820 E Pleasant Valley Road
Independence, OH 44131
(800) 359-0944
www.WholesaleSuppliesPlus.com

1.4 EMERGENCY TELEPHONE NUMBER

Emergency Telephone **(800) 255-3924** Domestic USA, Canada, Puerto Rico, and US Virgin Islands
+1 813 248-0585 International

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification (GHS-US)

Flammable liquids, Category 4	H227	Combustible liquid
Skin corrosion/irritation, Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2	H319	Causes serious eye irritation
Skin sensitization, Category 1	H317	May cause an allergic reaction
Reproductive toxicity, Category 2	H361	Suspected of damaging fertility or the unborn child

2.2 GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Hazard pictograms (GHS US)



Signal word (GHS US)

Hazard statements (GHS US)

Precautionary statements (GHS US)

Warning

H227 - Combustible liquid

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H361 - Suspected of damaging fertility or the unborn child

P201 - Obtain special instructions before use.

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

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P272 - Contaminated work clothing must not be allowed out of the workplace.

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

P302+P352 - If on skin: Wash with plenty of water.

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P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P332+P313 - If skin irritation occurs: Get medical advice/attention.

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

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use media other than water to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3 OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION

No additional information available

2.4 UNKNOWN ACUTE TOXICITY (GHS US)

Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCE

Not applicable

3.2 MIXTURE

Name	CAS No.	%	GHS US classification
Benzyl Benzoate	120-51-4	30 - 70	Acute Tox. 4 (Oral), H302
Linalool	78-70-6	5 - 10	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Benzyl Salicylate	118-58-1	5 - 10	Eye Irrit. 2, H319 Skin Sens. 1B, H317
Dihydro Myrcenol	18479-58-8	5 - 10	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone	54464-57-2	1 - 5	Skin Irrit. 2, H315 Skin Sens. 1B, H317
Linalyl Acetate	115-95-7	1 - 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
2H-pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)-	63500-71-0	1 - 5	Eye Irrit. 2, H319
Citral	5392-40-5	< 0.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Helional	1205-17-0	< 0.5	Skin Sens. 1B, H317 Repr. 2, H361
Limonene	5989-27-5	< 0.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
Geraniol	106-24-1	< 0.5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317

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Name	CAS No.	%	GHS US classification
Isoeugenol	97-54-1	< 0.5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 STOT SE 3, H335

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

General	IF exposed or concerned: Get medical advice/attention.
Inhalation	Remove person to fresh air and keep comfortable for breathing.
Skin contact	Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Call a poison center/doctor/physician if you feel unwell.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECT (ACUTE AND DELAYED)

Symptoms/effects after skin contact	Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	Eye irritation.

4.3 IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT, IF NECESSARY

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable Extinguishing Media	Water spray. Dry powder. Foam. Carbon dioxide.
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5.2 SPECIAL HAZARDS ARISING FROM THE CHEMICAL

Fire hazard	Combustible liquid.
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5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

6.1.1 FOR NON-EMERGENCY PERSONNEL

Emergency procedures	Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
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6.1.2 FOR EMERGENCY RESPONDERS

Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2 ENVIRONMENTAL PRECAUTIONS

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Avoid release to the environment.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Methods for cleaning up	Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	Dispose of materials or solid residues at an authorized site.

6.4 REFERENCE TO OTHER SECTIONS

For further information refer to section 13.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Precautions for safe handling	Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
Hygiene measures	Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage conditions	Store in a well-ventilated place. Keep cool. Store locked up.
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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS¹

D-Limonene (5989-27-5)		
Not applicable		
Benzyl Benzoate (120-51-4)		
Not applicable		
Benzyl Salicylate (118-58-1)		
Not applicable		
Citral (5392-40-5)		
ACGIH	Local Name	Citral
ACGIH	ACGIH OEL TWA [ppm]	5 ppm (IFV - Inhalable fraction and vapor)
ACGIH	Remark (ACGIH)	TLV® Basis: Body weight eff; URT irr; eye dam. Notations: Skin; DSEN; A4 (Not classifiable as a Human Carcinogen)
ACGIH	Regulatory reference	ACGIH 2018
Dihydro Myrcenol (18479-58-8)		
Not applicable		
Florol (63500-71-0)		
Not applicable		
Geraniol (106-24-1)		
Not applicable		
Helional (1205-17-0)		
Not applicable		

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Iso Eugenol (97-54-1)

Not applicable

Linalool (78-70-6)

Not applicable

Linalyl Acetate (115-95-7)

Not applicable

Timbersilk (54464-57-2)

Not applicable

8.2 APPROPRIATE ENGINEERING CONTROLS

Appropriate engineering controls
Environmental exposure controls

Ensure good ventilation of the work station.
Avoid release to the environment.

8.3 INDIVIDUAL PROTECTION MEASURES/PERSONAL PROTECTIVE EQUIPMENT

Hand protection
Eye protection
Skin and body protection
Respiratory protection
Personal protective equipment equipment symbol(s)

Protective gloves
Safety glasses
Wear suitable protective clothing
In case of insufficient ventilation, wear suitable respiratory equipment



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Color	Mixture contains one or more component(s) which have the following colour(s): Colourless to light yellow On exposure to air: yellow Colourless Colourless to brown White On exposure to light: yellow Yellow
Odor	There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: Lemon odour Floral odour Pine odour Mild odour Characteristic odour Fruity odour Pleasant odour Aromatic odour Almost odourless Phenol odour Strong odour Sweet odour
Odor threshold	No data available
pH	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	≈ 95.2 °C
Relative evaporation rate (butyl acetate=1)	No data available
Flammability	Not applicable
Vapor pressure	No data available
Relative vapor density at 20°C	No data available
Relative density	No data available
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosion limits	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 OTHER INFORMATION

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No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

The product is non-reactive under normal conditions of use, storage and transport.

10.2 CHEMICAL STABILITY

Stable under normal conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reactions known under normal conditions of use.

10.4 CONDITIONS TO AVOID

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5 INCOMPATIBLE MATERIALS

No additional information available

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON LIKELY ROUTES OF EXPOSURE

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified

D-Limonene (5989-27-5)

LD50 oral rat	> 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Read-across, Oral)
LD50 dermal rabbit	> 5000 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Weight of evidence, Dermal)

Benzyl Benzoate (120-51-4)

LD50 oral rat	> 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2 ml/kg (Modification of Draize 1959 method, 4 h, Rabbit, Experimental value, Dermal)
ATE US (oral)	1500 mg/kg body weight
ATE US (dermal)	4000 mg/kg body weight

Benzyl Salicylate (118-58-1)

LD50 oral rat	3031 – 3339 mg/kg body weight (EU Method B.1: Acute Toxicity (Oral), Rat, Male/female, Read-across, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg body weight (EU Method B.3: Acute toxicity (dermal), 24 h, Rabbit, Male/female, Read-across, Dermal, 14 day(s))
ATE US (oral)	2200 mg/kg body weight

Citral (5392-40-5)

ATE US (dermal)	2250 mg/kg body weight
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Dihydro Myrcenol (18479-58-8)

ATE US (oral)	3600 mg/kg body weight
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Geraniol (106-24-1)	
LD50 oral rat	3600 mg/kg body weight (Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Experimental value, Dermal)
ATE US (oral)	3600 mg/kg body weight
Helional (1205-17-0)	
ATE US (dermal)	3562 mg/kg body weight
Iso Eugenol (97-54-1)	
ATE US (oral)	1500 mg/kg body weight
ATE US (dermal)	1912 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
Linalool (78-70-6)	
LD50 oral rat	2790 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	5610 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 7 day(s))
ATE US (oral)	2790 mg/kg body weight
ATE US (dermal)	5610 mg/kg body weight
Timbersilk (54464-57-2)	
LD50 oral rat	≥ 5000 mg/kg
LD50 dermal rabbit	≥ 5000 mg/kg

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified

D-Limonene (5989-27-5)	
IARC group	3 - Not classifiable
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
STOT-single exposure	Not classified

Iso Eugenol (97-54-1)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	Not classified

Linalool (78-70-6)	
NOAEL (dermal,rat/rabbit,90 days)	250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
Aspiration hazard	Not classified
Viscosity, kinematic	No data available
Symptoms/effects after inhalation	Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	Eye irritation.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

Ecology - general	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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D-Limonene (5989-27-5)	
LC50 - Fish [1]	720 µg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)

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D-Limonene (5989-27-5)	
EC50 - Crustacea [1]	0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
Benzyl Benzoate (120-51-4)	
LC50 - Fish [1]	2.32 mg/l (EU Method C.1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	3.09 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
Benzyl Salicylate (118-58-1)	
LC50 - Fish [1]	1.03 mg/l (EU Method C.1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	1.16 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
Geraniol (106-24-1)	
LC50 - Fish [1]	22 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	10.8 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	13.1 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
Linalool (78-70-6)	
LC50 - Fish [1]	27.8 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	156.7 mg/l (DIN 38412-9, 96 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
Linalyl Acetate (115-95-7)	
LC50 - Fish [1]	720 µg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
Timbersilk (54464-57-2)	
LC50 - Fish [1]	≈ 1.3 mg/l Bluegill Sunfish
EC50 - Crustacea [1]	≈ 1.38 mg/l Water Flea
ErC50 algae	≈ 2.6 mg/l Green Algae

12.2 PERSISTENCE AND DEGRADABILITY

D-Limonene (5989-27-5)	
Persistence and degradability	Readily biodegradable in water.
ThOD	3.29 g O ₂ /g substance
Benzyl Benzoate (120-51-4)	
Persistence and degradability	Readily biodegradable in water.
Benzyl Salicylate (118-58-1)	
Persistence and degradability	Readily biodegradable in water.
Dihydro Myrcenol (18479-58-8)	
Persistence and degradability	Biodegradability in water: no data available.
Florol (63500-71-0)	
Persistence and degradability	Biodegradability in water: no data available.
Geraniol (106-24-1)	
Persistence and degradability	Readily biodegradable in water.

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Helional (1205-17-0)	
Persistence and degradability	Biodegradability in water: no data available.
Linalool (78-70-6)	
Persistence and degradability	Readily biodegradable in water.
Linalyl Acetate (115-95-7)	
Persistence and degradability	Readily biodegradable in water.

12.3 BIOACCUMULATIVE POTENTIAL

D-Limonene (5989-27-5)	
BCF - Fish [1]	864.8 – 1022 (Pisces, QSAR, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C)
Bioaccumulative potential	Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$).
Benzyl Benzoate (120-51-4)	
BCF - Fish [1]	2.286 (BCFBAF v3.00, Pisces, QSAR)
Partition coefficient n-octanol/water (Log Pow)	3.97 (Experimental value, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation ($\text{Log Kow} < 4$).
Benzyl Salicylate (118-58-1)	
BCF - Fish [1]	1170 (OECD 305: Bioconcentration: Flow-Through Fish Test, 28 day(s), Danio rerio, Flow-through system, Fresh water, Read-across, GLP)
Partition coefficient n-octanol/water (Log Pow)	4 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Bioaccumulative potential	Potential for bioaccumulation ($500 \leq \text{BCF} \leq 5000$).
Dihydro Myrcenol (18479-58-8)	
Partition coefficient n-octanol/water (Log Pow)	3.47 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation ($\text{Log Kow} < 4$).
Florol (63500-71-0)	
Bioaccumulative potential	No bioaccumulation data available.
Geraniol (106-24-1)	
Partition coefficient n-octanol/water (Log Pow)	2.6 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation ($\text{Log Kow} < 4$).
Helional (1205-17-0)	
Partition coefficient n-octanol/water (Log Pow)	2.4 (OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Bioaccumulative potential	Low potential for bioaccumulation ($\text{Log Kow} < 4$).
Linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2.84 (Experimental value, Equivalent or similar to OECD 107, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation ($\text{Log Kow} < 4$).
Linalyl Acetate (115-95-7)	
Partition coefficient n-octanol/water (Log Pow)	3.93 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation ($\text{Log Kow} < 4$).

12.4 MOBILITY IN SOIL

D-Limonene (5989-27-5)	
Ecology - soil	Adsorbs into the soil.

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Benzyl Benzoate (120-51-4)	
Surface tension	0.027 N/m (210 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
Ecology - soil	Low potential for mobility in soil.
Benzyl Salicylate (118-58-1)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.75 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
Ecology - soil	Low potential for mobility in soil.
Dihydro Myrcenol (18479-58-8)	
Ecology - soil	No (test)data on mobility of the substance available.
Florol (63500-71-0)	
Ecology - soil	No (test)data on mobility of the substance available.
Geraniol (106-24-1)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.85 (log Koc, PCKOCWIN v1.66, Calculated value)
Ecology - soil	Highly mobile in soil.
Linalool (78-70-6)	
Surface tension	8.3 mN/m (20 °C, ISO 9101: Surface active agents - Determination of interfacial tension)
Ecology - soil	Low potential for mobility in soil.
Linalyl Acetate (115-95-7)	
Ecology - soil	Adsorbs into the soil.

12.5 OTHER ADVERSE EFFECTS

No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Waste treatment methods Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: TRANSPORT INFORMATION

14.1 DEPARTMENT OF TRANSPORTATION (DOT)

Transport document description (DOT)	UN3082 Environmentally hazardous substances, liquid, n.o.s. (BENZYL BENZOATE), 9, III
UN-No.(DOT)	UN3082
Proper Shipping Name (DOT)	Environmentally hazardous substances, liquid, n.o.s. BENZYL BENZOATE
Class (DOT)	9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
Packing group (DOT)	III - Minor Danger
Hazard labels (DOT)	9 - Class 9 (Miscellaneous dangerous materials)



DOT Packaging Non Bulk (49 CFR 173.xxx)	203
DOT Packaging Bulk (49 CFR 173.xxx)	241
DOT Symbols	G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.

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	146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.
	173 - An appropriate generic entry may be used for this material.
	335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s.," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.
	IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
	T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)
	TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
	TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	155
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	No limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	No limit
DOT Vessel Stowage Location	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Emergency Response Guide (ERG) Number	171
Other information	No supplementary information available.

14.2 TRANSPORTATION OF DANGEROUS GOODS

Not applicable

14.3 TRANSPORT BY SEA

Transport document description (IMDG)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE), 9, III, MARINE POLLUTANT
UN-No. (IMDG)	3082
Proper Shipping Name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class (IMDG)	9 - Miscellaneous dangerous substances and articles
Packing group (IMDG)	III - substances presenting low danger
Limited quantities (IMDG)	5 L

14.4 AIR TRANSPORT

Transport document description (IATA)	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (BENZYL BENZOATE), 9, III
UN-No. (IATA)	3082
Proper Shipping Name (IATA)	Environmentally hazardous substance, liquid, n.o.s.
Class (IATA)	9 - Miscellaneous Dangerous Substances and Articles
Packing group (IATA)	III - Low danger

SECTION 15: REGULATORY INFORMATION

15.1 US FEDERAL REGULATIONS

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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Name	CAS No.	%
Benzyl Benzoate	120-51-4	30 - 70
Linalool	78-70-6	5 - 10
Benzyl Salicylate	118-58-1	5 - 10
Dihydro Myrcenol	18479-58-8	5 - 10
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone	54464-57-2	1 - 5
Linalyl Acetate	115-95-7	1 - 5
2H-pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)-	63500-71-0	1 - 5
Citral	5392-40-5	< 0.5
Helional	1205-17-0	< 0.5
Limonene	5989-27-5	< 0.5
Geraniol	106-24-1	< 0.5
Isoeugenol	97-54-1	< 0.5

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2 INTERNATIONAL REGULATIONS

15.2.1 CANADA

D-Limonene (5989-27-5)

Listed on the Canadian DSL (Domestic Substances List)

Benzyl Benzoate (120-51-4)

Listed on the Canadian DSL (Domestic Substances List)

Benzyl Salicylate (118-58-1)

Listed on the Canadian DSL (Domestic Substances List)

Citral (5392-40-5)

Listed on the Canadian DSL (Domestic Substances List)

Dihydro Myrcenol (18479-58-8)

Listed on the Canadian DSL (Domestic Substances List)

Florol (63500-71-0)

Listed on the Canadian DSL (Domestic Substances List)

Geraniol (106-24-1)

Listed on the Canadian DSL (Domestic Substances List)

Helional (1205-17-0)

Listed on the Canadian DSL (Domestic Substances List)

Iso Eugenol (97-54-1)

Listed on the Canadian DSL (Domestic Substances List)

Linalool (78-70-6)

Listed on the Canadian DSL (Domestic Substances List)

Linalyl Acetate (115-95-7)

Listed on the Canadian DSL (Domestic Substances List)

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Timbersilk (54464-57-2)

Listed on the Canadian DSL (Domestic Substances List)

15.2.2 EU REGULATIONS

Florol (63500-71-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) - Directive 79/831/EEC, sixth Amendment of Directive 67/548/EEC (dangerous substances)

15.2.3 NATIONAL REGULATIONS

D-Limonene (5989-27-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the EC Inventory
Listed on the Australian HSIS Consolidated List
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Benzyl Benzoate (120-51-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the EC Inventory
Listed on the Australian HSIS Consolidated List
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Benzyl Salicylate (118-58-1)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the EC Inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on KECI (Korean Existing Chemicals Inventory)

Citral (5392-40-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
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Listed on the EC Inventory
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Dihydro Myrcenol (18479-58-8)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the EC Inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on KECI (Korean Existing Chemicals Inventory)

Florol (63500-71-0)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
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Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on KECI (Korean Existing Chemicals Inventory)

Geraniol (106-24-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the EC Inventory
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Helional (1205-17-0)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
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Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on KECI (Korean Existing Chemicals Inventory)

Iso Eugenol (97-54-1)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
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Linalool (78-70-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the EC Inventory
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Linalyl Acetate (115-95-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the EC Inventory
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Timbersilk (54464-57-2)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
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Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on KECI (Korean Existing Chemicals Inventory)

SECTION 16: OTHER INFORMATION

Revision Date

8/29/2023

Full text of H-phrases:

H226	Flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.