

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 10/21/2021 | Revision date: 08/29/2023 | Supersedes: 12/22/2022

Version: 1.2

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	: (800) 255-3924 Domestic USA, Canada, Puerto Rico, and US Virgin Islands +1 813 248-0585 International	
) identification		
the substance or mi	ixture	
H227	Combustible liquid	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
e section 16		
nts including preca	autionary statements	
into, including prece		
5)		
	: Warning	
3)	: H227 - Combustible liquid H315 - Causes skin irritation H317 - May cause an allergic skin reaction	
HS US)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition so	urces. No
	<ul> <li>P261 - Ávoid breathing dust/fume/gas/mist/vapors/spray.</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P272 - Contaminated work clothing must not be allowed out of the workplace.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P302+P352 - If on skin: Wash with plenty of water.</li> <li>P321 - Specific treatment (see supplemental first aid instruction on this label).</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention.</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P363 - Wash contaminated clothing before reuse.</li> <li>P370+P378 - In case of fire: Use media other than water to extinguish.</li> <li>P403+P235 - Store in a well-ventilated place. Keep cool.</li> </ul>	in
	ailable Vholesale Supplies F .com hone number ) identification the substance or mi H227 H315 H317 es section 16	: Mixture         :: RUSTIC ESCENTUALS™ COCONUT SANDS FRAGRANCE OIL         :: MIXTURE         aliable         vholesale Supplies Plus 7820         .com         bone number         : (800) 255-3924 Domestic USA, Canada, Puerto Rico, and US Virgin Islands +1 813 248-0585 International         ) Identification         the substance or mixture         H227       Combustible liquid         H315       Causes skin irritation         H317       May cause an allergic skin reaction         e section 16       H317         nts, including precautionary statements         s)       : Warning         s)       : H227 - Combustible liquid         H317       May cause an allergic skin reaction         e section 16       H315         nts, including precautionary statements         s)       : H227 - Combustible liquid         H315       Causes skin irritation         H317       May cause an allergic skin reaction         tHS US)       : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition so moking.         spacing       : H227 - Combustible liquid H315 - Causes skin irritation H317 / May cause an allergic skin reaction         tHS US)       : P210 - Keep away from heat, hot surfaces, sparks, open flames and ot

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#### No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

3.1. Substances

### Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2- naphthalenyl)ethanone	(CAS-No.) 54464-57-2	10 - 30	Skin Irrit. 2, H315 Skin Sens. 1B, H317
BENZYL ALCOHOL	(CAS-No.) 100-51-6	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation dust,mist), H332 Eye Irrit. 2, H319
PENTADECALACTONE	(CAS-No.) 106-02-5	1 – 5	Skin Sens. 1B, H317
LINALOOL	(CAS-No.) 78-70-6	1 – 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
BENZYL SALICYLATE	(CAS-No.) 118-58-1	1 – 5	Eye Irrit. 2, H319 Skin Sens. 1B, H317
HEXYL CINNAMAL	(CAS-No.) 101-86-0	1 – 5	Skin Sens. 1B, H317
PHENYL ETHYL ALCOHOL	(CAS-No.) 60-12-8	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation dust,mist), H332 Eye Irrit. 2, H319
LIMONENE	(CAS-No.) 5989-27-5	1 – 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
LINALYL ACETATE	(CAS-No.) 115-95-7	0.5 – 1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
GERANIOL	(CAS-No.) 106-24-1	< 0.5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures		
4.1.	Description of first aid measures	
First-aid	measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid	measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid	measures after eye contact	: Rinse eyes with water as a precaution.
First-aid	measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2.	Most important symptoms and effect	s (acute and delayed)
Sympto	ns/effects after skin contact	: Irritation. May cause an allergic skin reaction.
4.3.	Immediate medical attention and spe	cial treatment, if necessary
Treat symptomatically.		
SECTION 5: Fire-fighting measures		
5.1.	Suitable (and unsuitable) extinguishi	ng media
Suitable	extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2.	Specific hazards arising from the che	mical
Fire haz	ard	: Combustible liquid.
5.3.	5.3. Special protective equipment and precautions for fire-fighters	
Protecti	on 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 equ	uipment 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.		
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".		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for containme	nt 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		
r recaulons for sale handling	flames and other ignition sources. No smoking. Wear personal protective equipment. 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, includin	ng any incompatibilities		
Storage conditions	: Store in a well-ventilated place. Keep cool.		
SECTION 8: Exposure controls/perso	onal protection		
8.1. Control parameters			
GERANIOL (106-24-1)			
Not applicable			
D-LIMONENE (5989-27-5)			
Not applicable			
Linalool (78-70-6)			
Not applicable			
LINALYL ACETATE (115-95-7)			
Not applicable			
BENZYL ALCOHOL (100-51-6)			
Not applicable			
BENZYL SALICYLATE (118-58-1)			
Not applicable			
HEXYL CINNAMIC ALDEHYDE (101-86-0)			
Not applicable			
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (54464-57-2)			
Not applicable			
PHENYL ETHYL ALCOHOL (60-12-8)			
Not applicable			
EXALTOLIDE (106-02-5)			
Not applicable			

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••••	Appropriate engineering controls iate engineering controls mental exposure controls	<ul><li>Ensure good ventilation of the work station.</li><li>Avoid release to the environment.</li></ul>
8.3.	Individual protection measures/Per	sonal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

### Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

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 Colourless to light yellow Colourless to brown On exposure to air: yellow White Light yellow White to light yellow On exposure to light: discolours	
Odor	<ul> <li>There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.</li> <li>Mixture contains one or more component(s) which have the following odour: Floral odour Fruity odour Sweet odour Characteristic odour Lemon odour Pine odour Mild odour Strong odour Unpleasant odour Irritating/pungent odour Almost odourless Aromatic odour Pleasant odour Odourless</li> </ul>	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: ≈85 °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	
No data availableViscosity, 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.

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10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous rea	ictions
No dangerous reactions known under n	ormal conditions of use.
10.4. Conditions to avoid	
Avoid contact with hot surfaces. Heat. N	lo flames, no sparks. Eliminate all sources of ignition.
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition p	products
Under normal conditions of storage and	use, hazardous decomposition products should not be produced.
<b>SECTION 11: Toxicological in</b>	formation
11.1. Information on toxicologica	I effects
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
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
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)
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
BENZYL ALCOHOL (100-51-6)	
LD50 oral rat	1620 mg/kg bw/day (Rat, Male, Experimental value, Oral)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)
LC50 Inhalation - Rat	> 4.178 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male/female, Experimental value, Inhalation (aerosol))
ATE US (oral)	1620 mg/kg body weight
ATE US (dermal)	2500 mg/kg body weight
ATE US (dust, mist)	1.5 mg/l/4h
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
HEXYL CINNAMIC ALDEHYDE (101	-86-0)
ATE US (oral)	3100 mg/kg body weight
PHENYL ETHYL ALCOHOL (60-12-8	
LD50 oral rat	> 1790 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 808 mg/kg (Rabbit, Dermal)
LC50 Inhalation - Rat	> 1.4 mg/l (4 h, Rat, Inhalation)

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PHENYL ETHYL ALCOHOL (60-12-8)	
ATE US (oral)	1610 mg/kg body weight
ATE US (dermal)	300 mg/kg body weight
ATE US (dust, mist)	1.5 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
	: Not classified
Serious eye damage/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	: Not classified
STOT-single exposure	: Not classified
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 skin contact	: Irritation. May cause an allergic skin reaction.
SECTION 12: Ecological informati	ion
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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	<ul> <li>13.1 mg/l (OECD 201: Alga, Growth Inh bition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)</li> </ul>
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)
EC50 - Crustacea [1]	system, Fresh water, Experimental value, Lethal) 0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system. Fresh water, Experimental value, GLP)
EC50 - Crustacea [1] Linalool (78-70-6) LC50 - Fish [1]	0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) 27.8 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system,
Linalool (78-70-6)	0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)         27.8 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP)         59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static
Linalool (78-70-6) LC50 - Fish [1]	0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)         27.8 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP)         59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)         59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)         156.7 mg/l (DIN 38412-9, 96 h, Desmodesmus subspicatus, Static system, Fresh water,
Linalool (78-70-6) LC50 - Fish [1] EC50 - Crustacea [1] ErC50 algae	0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)         27.8 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP)         59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)         59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
Linalool (78-70-6)           LC50 - Fish [1]           EC50 - Crustacea [1]           ErC50 algae           LINALYL ACETATE (115-95-7)	0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)         27.8 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP)         59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)         59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)         156.7 mg/l (DIN 38412-9, 96 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
Linalool (78-70-6) LC50 - Fish [1] EC50 - Crustacea [1] ErC50 algae	0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)         27.8 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP)         59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)         59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)         156.7 mg/l (DIN 38412-9, 96 h, Desmodesmus subspicatus, Static system, Fresh water,

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BENZYL ALCOHOL (100-51-6)		
LC50 - Fish [1]	460 mg/l (EPA OPP 72-1, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)	
EC50 - Crustacea [1]	230 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Fresh water, Experimental value, GLP)	
ErC50 algae	770 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, 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)	

PHENYL ETHYL ALCOHOL (60-12-8)	
LC50 - Fish [1]	220 – 260 mg/l (96 h, Leuciscus idus)
EC50 - Crustacea [1]	287.17 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna)

### 12.2. Persistence and degradability

GERANIOL (106-24-1)		
Persistence and degradability	Readily biodegradable in water.	
D-LIMONENE (5989-27-5)		
Persistence and degradability	Readily biodegradable in water.	
ThOD	3.29 g O <sub>2</sub> /g substance	
Linalool (78-70-6)		
Persistence and degradability	Readily biodegradable in water.	
LINALYL ACETATE (115-95-7)		
Persistence and degradability	Readily biodegradable in water.	
BENZYL ALCOHOL (100-51-6)		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	1.6 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD)	2.4 g O <sub>2</sub> /g substance	
ThOD	2.5 g O <sub>2</sub> /g substance	
BENZYL SALICYLATE (118-58-1)		
Persistence and degradability	Readily biodegradable in water.	
PHENYL ETHYL ALCOHOL (60-12-8)		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	1.45 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD)	2.5 g O <sub>2</sub> /g substance	
ThOD	2.6 g O <sub>2</sub> /g substance	
BOD (% of ThOD)	0.558	

### 12.3. Bioaccumulative potential

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 (Log Kow < 4).
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 ( $4 \ge Log \text{ Kow} \le 5$ ).
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 (Log Kow < 4).

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LINALYL ACETATE (115-95-7)	
Partition coefficient n-octanol/water (Log Pow)	3.93 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
BENZYL ALCOHOL (100-51-6)	
Partition coefficient n-octanol/water (Log Pow)	1 – 1.1 (Experimental value, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (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 $\leq$ BCF $\leq$ 5000).
PHENYL ETHYL ALCOHOL (60-12-8)	
Partition coefficient n-octanol/water (Log Pow)	1.38 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
12.4. Mobility in soil	

#### 12.4. Mobility in soli

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.
D-LIMONENE (5989-27-5)	
Ecology - soil	Adsorbs into the soil.
Linalool (78-70-6)	
Surface tension	8.3 mN/m (20 °C, ISO 9101: Surface active agents - Determination of interfacial tension)
Ecology - soil	No (test)data on mobility of the substance available.
LINALYL ACETATE (115-95-7)	
Ecology - soil	Adsorbs into the soil.
BENZYL ALCOHOL (100-51-6)	
Surface tension	39 mN/m (20 °C)
Ecology - soil	No (test)data on mobility of the substance available.
BENZYL SALICYLATE (118-58-1)	
Surface tension	69 mN/m (20 °C, 0.004 g/l, EU Method A.5: Surface tension)
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.

### 12.5. Other adverse effects

No additional information available

<b>SECTION 13: Disposal considerat</b>	ions
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	on
Department of Transportation (DOT) In accordance with DOT	
Transport document description (DOT)	: UN3082 Environmentally hazardous substances, liquid, n.o.s. (1-(1,2,3,4,5,6,7,8-Octahydro- 2,3,8,8-tetramethyl-2-naphthalenyl)ethanone), 9, III
UN-No.(DOT)	: UN3082

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Proper Shipping Name (DOT)	: Environmentally hazardous substances, liquid, n.o.s.
	1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone
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)	<ul> <li>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.</li> <li>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.</li> <li>173 - An appropriate generic entry may be used for this material.</li> <li>335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solid 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.</li> <li>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).</li> <li>T4 - 2.65 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
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.
Transportation of Dangerous Goods	
Transport document description (TDG)	: UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1- (1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone), 9, III
UN-No. (TDG)	: UN3082
Proper Shipping Name (TDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
TDG Primary Hazard Classes	: 9 - Class 9 - Miscellaneous Products, Substances or Organisms
Packing group (TDG)	: III - Minor Danger

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TDG Special Provisions	<ul> <li>16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name:         <ul> <li>(a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S;</li> <li>(b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S.</li> <li>(c) UN3140, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, LIQUID, N.O.S;</li> <li>(d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S;</li> <li>(e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S.</li> <li>(a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or</li> <li>(b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or</li> <li>(b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or</li> <li>(b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or</li> <li>(c) UN3240, SUBSTANCE, SOLID, N.O.S. or UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., may be handled, offered for transport or transported as UN3077 if there is no visible liquid when the dangerous goods are loaded into a means containment and during transport.</li> <li>(2) These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering for transport or transporting of less than 450 kg of UN307</li></ul></li></ul>
Explosive Limit and Limited Quantity Index	goods that could endanger public safety. : 5 L
Transport by sea	
Transport by 364	
Transport document description (IMDG)	<ul> <li>UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1- (1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone), 9, III, MARINE POLLUTANT</li> </ul>
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)	: 5L
Air transport	
Transport document description (IATA)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone), 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	on

15.1. US Federal regulations

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All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic

Substances Control Act (TSCA) inventory		
GERANIOL	CAS-No. 106-24-1	< 0.5%
LIMONENE	CAS-No. 5989-27-5	1 – 5%
LINALOOL	CAS-No. 78-70-6	1 – 5%
LINALYL ACETATE	CAS-No. 115-95-7	0.5 – 1%
BENZYL ALCOHOL	CAS-No. 100-51-6	1 – 5%
BENZYL SALICYLATE	CAS-No. 118-58-1	1 – 5%
HEXYL CINNAMAL	CAS-No. 101-86-0	1 – 5%
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2- naphthalenyl)ethanone	CAS-No. 54464-57-2	10 – 30%
PHENYL ETHYL ALCOHOL	CAS-No. 60-12-8	1 – 5%
PENTADECALACTONE	CAS-No. 106-02-5	1 – 5%

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-	CAS-No. 1222-05-5	1 – 5%
gamma-2-benzopyran		

#### 15.2. International regulations

### CANADA

GERANIOL (106-24-1)
Listed on the Canadian DSL (Domestic Substances List)
D-LIMONENE (5989-27-5)
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)
BENZYL ALCOHOL (100-51-6)
Listed on the Canadian DSL (Domestic Substances List)
BENZYL SALICYLATE (118-58-1)
Listed on the Canadian DSL (Domestic Substances List)
HEXYL CINNAMIC ALDEHYDE (101-86-0)
Listed on the Canadian DSL (Domestic Substances List)
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (54464-57-2)
Listed on the Canadian DSL (Domestic Substances List)
PHENYL ETHYL ALCOHOL (60-12-8)
Listed on the Canadian DSL (Domestic Substances List)
EXALTOLIDE (106-02-5)
Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

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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 Chemicals Inventory) 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 the Japanese ENCS (Existing New Chemical Substances) inventory Listed on the Japanese ENCS (Existing New Chemical Substances) inventory Listed on the Japanese ENCS (Existing New Chemical Substances) inventory Listed on the Japanese ENCS (Existing New Chemicals and Chemical Substances) Listed on the CL Inventory Listed on the CL Inventory Listed on the CG (Philippines Inventory of Chemicals Introduction Scheme (AICIS Inventory) 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 Chemicals Inventory) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals Substances) inventory Listed on NZIoC (Pielippines Inventory of Chemicals Substances) inventory Listed on the Japanese ENCS (Existing New Chemical Substances) inventory Listed on the CI Inventory	
Listed on the Australian HSIS Consolidated List	
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) 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 on the EC Inventory	
BENZYL ALCOHOL (100-51-6)	
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 the EC Inventory Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the Australian HSIS Consolidated List 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)	

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BENZYL SALICYLATE (1	18-58-1)
Listed on the TCSI (Taiwar Listed on NZIoC (New Zea Listed on the Japanese EN Listed on PICCS (Philippin Listed on the EC Inventory Listed on INSQ (Mexican N Listed introduction on Aust Listed on KECL/KECI (Kor	y of Existing Chemical Substances Produced or Imported in China) n Chemical Substance Inventory) land Inventory of Chemicals) ICS (Existing New Chemical Substances) inventory es Inventory of Chemicals and Chemical Substances) vational Inventory of Chemical Substances) ralian Industrial Chemicals Introduction Scheme (AICIS Inventory) ean Existing Chemicals Inventory) kisting Chemicals Inventory)
HEXYL CINNAMIC ALDE	HYDE (101-86-0)
Listed on the TCSI (Taiwar Listed on NZIoC (New Zea Listed on the Japanese EN Listed on PICCS (Philippin Listed on the EC Inventory Listed on INSQ (Mexican N Listed introduction on Aust Listed on KECL/KECI (Kor	y of Existing Chemical Substances Produced or Imported in China) n Chemical Substance Inventory) land Inventory of Chemicals) ICS (Existing New Chemical Substances) inventory es Inventory of Chemicals and Chemical Substances) v National Inventory of Chemical Substances) ralian Industrial Chemicals Introduction Scheme (AICIS Inventory) ean Existing Chemicals Inventory) kisting Chemicals Inventory)
1-(1,2,3,4,5,6,7,8-Octahyo	Iro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (54464-57-2)
Listed on the TCSI (Taiwar Listed on NZIoC (New Zea Listed on the Japanese EN Listed on PICCS (Philippin Listed on the EC Inventory Listed on INSQ (Mexican N Listed introduction on Aust Listed on KECL/KECI (Kor	y of Existing Chemical Substances Produced or Imported in China) In Chemical Substance Inventory) Iland Inventory of Chemicals) ICS (Existing New Chemical Substances) inventory es Inventory of Chemicals and Chemical Substances) Vational Inventory of Chemical Substances) ralian Industrial Chemicals Introduction Scheme (AICIS Inventory) ean Existing Chemicals Inventory) kisting Chemicals Inventory)
PHENYL ETHYL ALCOHO	DL (60-12-8)
Listed on INSQ (Mexican M Listed on IECSC (Inventor Listed on KECI (Korean E) Listed on the TCSI (Taiwal Listed on NZIoC (New Zea Listed on the Japanese EN Listed on PICCS (Philippin Listed on the EC Inventory	s TSCA (Toxic Substances Control Act) inventory - Status: Active National Inventory of Chemical Substances) y of Existing Chemical Substances Produced or Imported in China) kisting Chemicals Inventory) in Chemical Substance Inventory) land Inventory of Chemicals) ICS (Existing New Chemical Substances) inventory es Inventory of Chemicals and Chemical Substances) ralian Industrial Chemicals Introduction Scheme (AICIS Inventory)
EXALTOLIDE (106-02-5)	
Listed on the TCSI (Taiwar Listed on NZIoC (New Zea Listed on the Japanese EN Listed on PICCS (Philippin Listed on the EC Inventory Listed on INSQ (Mexican N Listed introduction on Aust Listed on KECL/KECI (Kor	y of Existing Chemical Substances Produced or Imported in China) In Chemical Substance Inventory) Idand Inventory of Chemicals) ICS (Existing New Chemical Substances) inventory es Inventory of Chemical Substances) Vational Inventory of Chemical Substances) Vational Inventory of Chemical Substances) ralian Industrial Chemicals Introduction Scheme (AICIS Inventory) ean Existing Chemicals Inventory) kisting Chemicals Inventory)

## SECTION 16: Other information

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Revision date

: 08/29/2023

## Safety Data Sheet

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#### 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
H311	Toxic 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

SDS US

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.