

SECTION 1 — Identification

Product name	Blackberry Margarita
Supplier name	Lone Star Candle Supply, Inc.
Recommended use	Compound used in customer substance/mixture/product
Supplier address	5800 Park Vista Circle, Keller, TX 76244
Supplier phone	1-800-929-9425
Emergency phone (24h)	CHEMTREC 1-800-424-9300 / +1 703-741-5970

SECTION 2 — Hazards Identification
2.1. Classification of the substance or mixture
GHS US classification

Hazard class	Category	Hazard statement
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 skin reaction
Carcinogenicity	Category 2	H351 - Suspected of causing cancer
Reproductive toxicity	Category 2	H361 - Suspected of damaging fertility or the unborn child

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS US):



Signal word (GHS US):	Warning
Hazard statements (GHS US):	H227 - Combustible liquid H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H351 - Suspected of causing cancer H361 - Suspected of damaging fertility or the unborn child
Precautionary statements (GHS US):	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. 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. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
CITRONELLOL	(CAS-No.) 106-22-9	5 – 10	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
LINALOOL	(CAS-No.) 78-70-6	5 – 10	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
LIMONENE	(CAS-No.) 5989-27-5	5 – 10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
ALDEHYDE C 16	(CAS-No.) 77-83-8	5 – 10	Skin Sens. 1B, H317
HEXYL CINNAMAL	(CAS-No.) 101-86-0	5 – 10	Skin Sens. 1B, H317
Hydrocarbons, terpene processing by-products	(CAS-No.) 68956-56-9	1–5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317 Asp. Tox. 1, H304
METHYL ANTHRANILATE	(CAS-No.) 134-20-3	1–5	Eye Irrit. 2A, H319
DIHYDRO MYRCENOL	(CAS-No.) 18479-58-8	1–5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
CITRAL	(CAS-No.) 5392-40-5	1–5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317
GERANYL ACETATE	(CAS-No.) 105-87-3	1–5	Skin Irrit. 2, H315 Skin Sens. 1B, H317
GERANIOL	(CAS-No.) 106-24-1	1–5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
p-Mentha-1,4-diene	(CAS-No.) 99-85-4	1–5	Flam. Liq. 3, H226 Repr. 2, H361 Asp. Tox. 1, H304
CINNAMAL	(CAS-No.) 104-55-2	0.5 – 1	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1A, H317
CITRAL	(CAS-No.) 5392-40-5	< 0.5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317

Name	Product identifier	%	GHS US classification
P-CYMENE	(CAS-No.) 99-87-6	< 0.5	Flam. Liq. 3, H226 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 Repr. 2, H361 Asp. Tox. 1, H304
ALPHA TERPINENE	(CAS-No.) 99-86-5	< 0.5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Eye Irrit. 2B, H320 Skin Sens. 1, H317 Asp. Tox. 1, H304
DAMASCONE DELTA	(CAS-No.) 57378-68-4	< 0.5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1A, H317
Myrcene	(CAS-No.) 123-35-3	< 0.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 Asp. Tox. 1, H304

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 general:	IF exposed or concerned: Get medical advice/attention.
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 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.
First-aid measures after ingestion:	Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (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 — Fire-Fighting Measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Water spray. Dry powder. Foam. Carbon dioxide.
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5.2. Specific 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

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.
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Other information:	Dispose of materials or solid residues at an authorized site.
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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.
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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.
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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 parameters

D-LIMONENE (5989-27-5)	Not applicable
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CINNAMIC ALDEHYDE (104-55-2)	Not applicable
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ALPHA TERPINENE (99-86-5)	Not applicable
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p-Cymene (99-87-6)	Not applicable
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Linalool (78-70-6)	Not applicable
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ALDEHYDE C 16 (77-83-8)	Not applicable
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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 2024

CITRONELLOL (106-22-9)	Not applicable
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DAMASCONE DELTA (57378-68-4)	Not applicable
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DIHYDRO MYRCENOL (18479-58-8)	Not applicable
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GERANIOL (106-24-1)	Not applicable
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GERANYL ACETATE (105-87-3)	Not applicable
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HEXYL CINNAMIC ALDEHYDE (101-86-0)	Not applicable
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Myrcene (123-35-3)	Not applicable
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p-Mentha-1,4-diene (99-85-4)	Not applicable
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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 2024
METHYL ANTHRANILATE (134-20-3)		Not applicable
TERPINOLENE (68956-56-9)		Not applicable
8.2. Appropriate engineering controls		
Appropriate engineering controls:		Ensure good ventilation of the work station.
Environmental exposure controls:		Avoid release to the environment.
8.3. Individual protection measures / Personal protective equipment		
Hand protection:		Protective gloves
Eye protection:		Safety glasses
Skin and body protection:		Wear suitable protective clothing
Respiratory protection:		[In case of inadequate ventilation] wear respiratory protection.
PPE symbols:		  
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 white Colourless to light yellow White Light yellow to colourless On exposure to air: yellow-brown White to off-white Light yellow Colourless to light amber light yellow On exposure to air: yellow Colourless to brown White to light yellow On exposure to light: discolours
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: Pine odour Mild odour Camphor odour Lemon odour Characteristic odour Fruity odour Aromatic odour Pleasant odour Floral odour Almond odour Almost odourless Alcohol odour Irritating/pungent odour Vinegar odour Strong odour Odourless Sweet odour
Odor threshold:		No data available
pH:		No data available
Melting point:		Not applicable
Freezing point:		No data available
Boiling point:		No data available
Flash point:		≈ 66.9 °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

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 toxicological effects

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)

CINNAMIC ALDEHYDE (104-55-2)

ATE US (oral)	2200 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight

ALPHA TERPINENE (99-86-5)

LD50 oral rat	1680 mg/kg (Rat, Literature study, Oral)
ATE US (oral)	1680 mg/kg body weight

p-Cymene (99-87-6)

ATE US (oral)	4750 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	9.7 mg/l/4h
ATE US (dust, mist)	0.5 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
ALDEHYDE C 16 (77-83-8)	
LD50 oral rat	5470 mg/kg (Rat, Male/female, Weight of evidence, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Experimental value, Dermal)
ATE US (oral)	5470 mg/kg body weight
CITRONELLOL (106-22-9)	
ATE US (oral)	3450 mg/kg body weight
ATE US (dermal)	2650 mg/kg body weight
DAMASCONE DELTA (57378-68-4)	
ATE US (oral)	1400 mg/kg body weight
DIHYDRO MYRCENOL (18479-58-8)	
ATE US (oral)	3600 mg/kg body weight
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
GERANYL ACETATE (105-87-3)	
LD50 oral rat	6300 mg/kg (Rat, Oral)
ATE US (oral)	6300 mg/kg body weight
HEXYL CINNAMIC ALDEHYDE (101-86-0)	
ATE US (oral)	3100 mg/kg body weight
Myrcene (123-35-3)	
LD50 oral rat	> 11390 mg/kg body weight Animal: rat
LD50 dermal rabbit	> 5000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
ATE US (dermal)	5000 mg/kg body weight
p-Mentha-1,4-diene (99-85-4)	
ATE US (oral)	3650 mg/kg body weight
METHYL ANTHRANILATE (134-20-3)	
ATE US (oral)	2780 mg/kg body weight
TERPINOLENE (68956-56-9)	
ATE US (oral)	3800.48 mg/kg body weight
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:	Suspected of causing cancer.
D-LIMONENE (5989-27-5)	
IARC group	3 - Not classifiable
Myrcene (123-35-3)	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity:	Suspected of damaging fertility or the unborn child.
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)
Myrcene (123-35-3)	
LOAEL (oral,rat,90 days)	250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
NOAEL (subchronic,oral,animal/male,90 days)	500 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
NOAEL (subchronic,oral,animal/female,90 days)	250 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Aspiration hazard:	Not classified
Viscosity, kinematic:	No data available
Symptoms/effects after skin contact:	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.
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]	0.36 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]	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)
ALDEHYDE C 16 (77-83-8)	
LC50 - Fish [1]	4.2 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, GLP)
ErC50 algae	36 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, 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)
GERANYL ACETATE (105-87-3)	
LC50 - Fish [1]	68.12 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 96 h, Leuciscus idus, Static system, Fresh water, Read-across)
EC50 - Crustacea [1]	14.1 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
Myrcene (123-35-3)	
LC50 - Fish [1]	0.92 mg/l
EC50 - Crustacea [1]	0.45 mg/l
NOEC chronic crustacea	0.12 mg/l
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
ALPHA TERPINENE (99-86-5)	
Persistence and degradability	Biodegradability in water: no data available.
Linalool (78-70-6)	
Persistence and degradability	Readily biodegradable in water.
ALDEHYDE C 16 (77-83-8)	
Persistence and degradability	Not readily biodegradable in water.
CITRONELLOL (106-22-9)	
Persistence and degradability	Readily biodegradable in water.
Chemical oxygen demand (COD)	2.05 g O ₂ /g substance
ThOD	2.961 g O ₂ /g substance
DIHYDRO MYRCENOL (18479-58-8)	
Persistence and degradability	Biodegradability in water: no data available.
GERANIOL (106-24-1)	
Persistence and degradability	Readily biodegradable in water.
GERANYL ACETATE (105-87-3)	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.6 g O ₂ /g substance
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 ($4 \geq \text{Log Kow} \leq 5$).

ALPHA TERPINENE (99-86-5)	
Partition coefficient n-octanol/water (Log Pow)	4.75 (Calculated, KOWWIN)
Bioaccumulative potential	Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$).
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 ($\text{Log Kow} < 4$).
ALDEHYDE C 16 (77-83-8)	
Partition coefficient n-octanol/water (Log Pow)	2.4 – 2.8 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation ($\text{Log Kow} < 4$).
CITRONELLOL (106-22-9)	
Partition coefficient n-octanol/water (Log Pow)	3.41 – 3.91
DIHYDRO MYRCENOL (18479-58-8)	
Partition coefficient n-octanol/water (Log Pow)	3.47 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation ($\text{Log Kow} < 4$).
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 ($\text{Log Kow} < 4$).
GERANYL ACETATE (105-87-3)	
BCF - Other aquatic organisms [1]	1500 (Estimated value)
Partition coefficient n-octanol/water (Log Pow)	4.04 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Bioaccumulative potential	Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$).
METHYL ANTHRANILATE (134-20-3)	
Partition coefficient n-octanol/water (Log Pow)	1.34 (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.
ALPHA TERPINENE (99-86-5)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.049 – 3.688 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Low potential for mobility 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	No (test)data on mobility of the substance available.
ALDEHYDE C 16 (77-83-8)	
Surface tension	59 N/m (19.6 °C, 0.79 g/l, OECD 115: Surface Tension of Aqueous Solutions)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.34 – 2.74 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
Ecology - soil	Low potential for adsorption in soil.
DIHYDRO MYRCENOL (18479-58-8)	
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.

GERANYL ACETATE (105-87-3)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.06 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Low potential for mobility in soil.

12.5. Other adverse effects

No additional information available

SECTION 13 — Disposal Considerations**13.1. Disposal methods**

Waste treatment methods:	Dispose of contents/container in accordance with licensed collector's sorting instructions.
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SECTION 14 — Transport Information**Department of Transportation (DOT)****In accordance with DOT**

Not regulated

Transportation of Dangerous Goods

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

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

Name	CAS-No.	%
LIMONENE	5989-27-5	5 – 10%
CINNAMAL	104-55-2	0.5 – 1%
ALPHA TERPINENE	99-86-5	< 0.5%
P-CYMENE	99-87-6	< 0.5%
LINALOOL	78-70-6	5 – 10%
ALDEHYDE C 16	77-83-8	5 – 10%
CITRAL	5392-40-5	1 – 5%
CITRONELLOL	106-22-9	5 – 10%
DAMASCONE DELTA	57378-68-4	< 0.5%
DIHYDRO MYRCENOL	18479-58-8	1 – 5%
GERANIOL	106-24-1	1 – 5%
GERANYL ACETATE	105-87-3	1 – 5%
HEXYL CINNAMAL	101-86-0	5 – 10%
Myrcene	123-35-3	< 0.5%

Name	CAS-No.	%
p-Mentha-1,4-diene	99-85-4	1 – 5%
CITRAL	5392-40-5	< 0.5%
METHYL ANTHRANILATE	134-20-3	1 – 5%
Hydrocarbons, terpene processing by-products	68956-56-9	1 – 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

D-LIMONENE (5989-27-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the EC Inventory
Listed on the Australian HSIS Consolidated List

CINNAMIC ALDEHYDE (104-55-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the EC Inventory

ALPHA TERPINENE (99-86-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the EC Inventory

p-Cymene (99-87-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the EC Inventory

Linalool (78-70-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the EC Inventory

ALDEHYDE C 16 (77-83-8)

Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the EC Inventory

CITRAL (5392-40-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the EC Inventory
Listed on the Australian HSIS Consolidated List

CITRONELLOL (106-22-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the EC Inventory

DAMASCONE DELTA (57378-68-4)

Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the EC Inventory

DIHYDRO MYRCENOL (18479-58-8)

Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the EC Inventory

GERANIOL (106-24-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the EC Inventory

GERANYL ACETATE (105-87-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the EC Inventory

HEXYL CINNAMIC ALDEHYDE (101-86-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the EC Inventory

Myrcene (123-35-3)

Listed on IARC (International Agency for Research on Cancer)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the EC Inventory

p-Mentha-1,4-diene (99-85-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the EC Inventory

CITRAL (5392-40-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the EC Inventory

Listed on the Australian HSIS Consolidated List

METHYL ANTHRANILATE (134-20-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the EC Inventory

TERPINOLENE (68956-56-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the EC Inventory

SECTION 16 — Other Information

Issue date: 04/22/2024

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
H320	Causes eye irritation
H331	Toxic if inhaled
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child

Disclaimer: The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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