

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: Lemon Leaf + Thyme

1.2. Intended Use of the Product

Use of the Substance/Mixture: Consumer packaged goods

1.3. Name, Address, and Telephone of the Responsible Party

Company

Enviroscent

4600 Roswell Road

Suite D-210

Atlanta, GA 30342

T 866-435-1832

EHS@enviroscent.com

www.enviroscent.com

1.4. Emergency Telephone Number

Emergency Number : 866-435-1832 (Office Hours 8:30-17:30 EST)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US Classification

Skin Irrit. 2 H315

Eye Irrit. 2A H319

Skin Sens. 1 H317

Aquatic Acute 2 H401

Aquatic Chronic 3 H412

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

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



GHS07

Signal Word (GHS-US)

: Warning

Hazard Statements (GHS-US)

: H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H401 - Toxic to aquatic life.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statements (GHS-US)

: P261 - Avoid breathing vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

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

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, and eye 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.

P321 - Specific treatment (see section 4 on this SDS).

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.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

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2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Synonyms	Product Identifier	%	GHS US classification
Pulp, cellulose	Cellulose pulp / Cellulose, pulp / Pulp, cellulose (The fibrous substance obtained from the treatment of lignocellulosic substances (wood or other agricultural fiber sources) with one or more aqueous solutions of pulping and/or bleaching chemicals. Composed of cellulose, hemi-cellulose, lignin, and other minor components. The relative amounts of these components depend on the extent of the pulping and bleaching processes.) / Cellulose fibre	(CAS-No.) 65996-61-4	24 - 84	Comb. Dust
Octanal, 2-(phenylmethylene)-	Cinnamaldehyde, .alpha.-hexyl- / 2-Hexylcinnamaldehyde / .alpha.-Hexylcinnamaldehyde / 2-Benzylideneoctanal / HEXYL CINNAMAL / Hexyl cinnamal / .alpha.-Hexylcinnamic aldehyde / 2-(Phenylmethylene)octanal / Hexylcinnamaldehyde	(CAS-No.) 101-86-0	7.5 – 15	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
4-tert-Butylcyclohexyl acetate	Cyclohexanol, 4-(1,1-dimethylethyl)-, acetate / Acetic acid, (4-tert-butylcyclohexyl) ester / Cyclohexanol, 4-tert-butyl-, acetate / Cyclohexanol, 4-(1,1-dimethylethyl)-, 1-acetate / Acetate, 4-tert-butylcyclohexyl / p-tert-Butylcyclohexyl acetate / 4-TERT-BUTYLCYCLOHEXYL ACETATE / 4-tert-butylcyclohexyl acetate / 4-tert-Butylcyclohexan-1-yl acetate / 4-(1,1-Dimethylethyl)cyclohexanol acetate	(CAS-No.) 32210-23-4	3.75 – 7.5	Skin Sens. 1B, H317
Linalool	3,7-Dimethyl-1,6-octadien-3-ol / Linalyl alcohol / Octa-1,6-dien-3-ol, 3,7-dimethyl- / 1,6-Octadien-3-ol, 3,7-dimethyl- / Linalool (synthetic) / LINALOOL / 3,7-Dimethylocta-1,6-dien-3-ol / linalool, (+/-)- / Linalool, (+/-)-	(CAS-No.) 78-70-6	3.75 – 7.5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317 Aquatic Acute 3, H402
1,6-Nonadien-3-ol, 3,7-dimethyl-	3,7-Dimethylnona-1,6-dien-3-ol / Nona-1,6-dien-3-ol, 3,7-dimethyl- / 3,7-Dimethyl-1,6-nonadien-3-ol / Ethyl linalool / ETHYL LINALOOL	(CAS-No.) 10339-55-6	1.5 – 3.75	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
Citral	3,7-Dimethyl-2,6-octadienal / 2,6-Octadienal, 3,7-dimethyl- / CITRAL / 3,7-Dimethylocta-2,6-dien-8-al / citral	(CAS-No.) 5392-40-5	1.5 – 3.75	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317

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<p>Ethanone, 1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)-, [3R-(3.alpha.,3a.beta.,7.beta.,8a.alpha.)]-</p>	<p>Cedrene, 9-acetyl- / Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]- / [3R-(3.alpha.,3a.beta.,7.beta.,8a.alpha.)]-1-(2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one / Methylcedren / Acetylcedrene / Acetyl cedrene / Acetyl-.alpha.-cedrene / Methyl cedryl ketone / 9-Acetyl-8-cedrene / 1-[(3R,3aR,7R,8aS)-3,6,8,8-Tetramethyl-2,3,4,7,8,8a-hexahydro-1H-3a,7-methanoazulen-5-yl]ethanone / ACETYLCEDRENE / acetyl cedrene</p>	<p>(CAS-No.) 32388-55-9</p>	<p>1.5 – 3.75</p>	<p>Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</p>
<p>2H-Pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)-</p>	<p>Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) / Florol / 2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol / Pyran(2H)-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)- / 2-Isobutyl-4-methyloxan-4-ol / TETRAHYDRO-METHYL-METHYLPROPYL-PYRAN-4-OL / 2-isobutyl-4-methyltetrahydropyran-4-ol / Tetrahydro-methyl-methylpropyl-pyran-4-ol / 2-Isobutyl-4-hydroxy-4-methyltetrahydropyran</p>	<p>(CAS-No.) 63500-71-0</p>	<p>1.5 – 3.75</p>	<p>Eye Irrit. 2A, H319</p>
<p>D-Limonene</p>	<p>Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- / Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)- / (R)-p-Mentha-1,8-diene / p-Mentha-1,8-diene, (R)-(+)- / Limonene, D- / Menthadiene, 1,8(9)-p- / d-Limonene / Limonene, d- / (4R)-1-Methyl-4-(1-methylethenyl)cyclohexene / (4R)-p-Mentha-1,8-diene / 1-Methyl-4-prop-1-en-2-yl-cyclohexene / (R)-1-Methyl-4-(1-methylethenyl)cyclohexene / d-LIMONENE / (R)-1-Methyl-4-(1-methylethenyl)cyclohex-1-ene / (R)-4-Isopropenyl-1-methylcyclohex-1-ene / Limonene / LIMONENE / limonene, (+)- / d-limonene</p>	<p>(CAS-No.) 5989-27-5</p>	<p>0.75 – 1.5</p>	<p>Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412</p>
<p>Decanal</p>	<p>Aldehyde C10 / Capraldehyde / Capric aldehyde / Caprinaldehyde / Caprinic aldehyde / Decaldehyde / n-Decaldehyde / n-Decanal / 1-Decanal / Decanaldehyde / Decyl aldehyde / n-Decyl aldehyde / 1-Decyl aldehyde / Decylic aldehyde / normal-Decaldehyde / DECANAL / Decylaldehyde</p>	<p>(CAS-No.) 112-31-2</p>	<p>0.75 – 1.5</p>	<p>Flam. Liq. 4, H227 Eye Irrit. 2A, H319 Aquatic Acute 2, H401 Aquatic Chronic 3, H412</p>

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3-Cyclohexene-1-carboxaldehyde, dimethyl-	Cyclohex-3-ene-1-carboxaldehyde, dimethyl- / 3-Cyclohexene-1-carboxaldehyde, 2,4(or 3,5)-dimethyl- / Dimethyl tetrahydrobenzaldehyde / Dimethylcyclohex-3-ene-1-carbaldehyde / Dimethylcyclohex-3-ene-1-carboxaldehyde / DIMETHYLTETRAHYDRO BENZALDEHYDE / (2,4)- and (3,5)- and (3,6)-Dimethyl-3-cyclohexenylcarbaldehyde / Dimethylcyclohex-3-ene-1-carbaldehyde (mixed isomers) / 2,4(or 3,5)-Dimethyl-3-cyclohexene-1-carboxaldehyde / Dimethylcyclohex-3-ene-1-carbaldehyde (isomer mixture)	(CAS-No.) 68737-61-1	0.75 – 1.5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
7-Octen-2-ol, 2,6-dimethyl-	2,6-Dimethyl-7-octen-2-ol / 2,6-Dimethyloct-7-en-2-ol / Oct-7-en-2-ol, 2,6-dimethyl- / 2,6-DIMETHYL-7-OCTEN-2-OL / Dihydromyrcenol / dihydromyrcenol	(CAS-No.) 18479-58-8	0.75 – 1.5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
1,8-Cineol	Bicyclo[2.2.2]octane, 1,3,3-trimethyl-2-oxa- / 1,8-Cineole / Cineole / Eucalyptol / p-Menthane, 1,8-epoxy- / 2-Oxabicyclo[2.2.2]octane, 1,3,3-trimethyl- / EUCALYPTOL / 1,3,3-Trimethyl-2-oxabicyclo[2.2.2]octane / 1,8-Epoxy-p-menthane / CINEOLE / eucalyptol	(CAS-No.) 470-82-6	0.075 – 0.75	Flam. Liq. 3, H226 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 3, H402
Cyclohexanone, 5-methyl-2-(1-methylethyl)-, (2S-trans)-	Cyclohexanone, 5-methyl-2-(1-methylethyl)-, (2S,5R)- / Cyclohexanone, 5-methyl-2-isopropyl-, (2S-trans)- / L-Menthan-3-one / (2S-trans)-5-Methyl-2-(1-methylethyl)cyclohexanone / l-Menthone / (2S,5R)-5-Methyl-2-(1-methylethyl)cyclohexanone / L-Menthone / (-)-Menthone / L-MENTHANONE / Menthone, (-)-	(CAS-No.) 14073-97-3	0.075 – 0.75	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
2-Buten-1-one, 1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-, (E)-	Cyclohexene, 3-(2-butenoyl)-2,4,4-trimethyl-, (E)- / (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one / 2-Buten-1-one, 1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-, (2E)- / trans-.alpha.-Damascone / trans-Rose ketone-1 / trans-.alpha.-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one / trans-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)but-2-en-1-one / .alpha.-Damascone / (E)-1-(2,6,6-Trimethylcyclohex-2-en-1-yl)but-2-en-1-one / TRANS-ROSE KETONE-1 / .alpha.-damascone, (E)-	(CAS-No.) 24720-09-0	0.075 – 0.75	Acute Tox. 4 (Oral), H302 Skin Sens. 1B, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
4-Penten-1-one, 1-(5,5-dimethyl-1-cyclohexen-1-yl)-	1-(5,5-Dimethyl-1-cyclohexen-1-yl)pent-4-en-1-one / Pent-4-en-1-one, 1-(5,5-dimethyl-1-cyclohexen-1-yl) / DIMETHYLCYCLOHEXENYL 3-BUTENYL KETONE / 1-(5,5-Dimethyl-1-cyclohexen-1-yl)-4-penten-1-one	(CAS-No.) 56973-85-4	0.075 – 0.75	Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

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Eugenol	4-Allyl-1-hydroxy-2-methoxybenzene / 4-Allyl-2-methoxyphenol / 4-Allylcatechol-2-methyl ether / Eugenol / p-Eugenol / 1,3,4-Eugenol / 1-Hydroxy-2-methoxy-4-allylbenzene / 1-Hydroxy-2-methoxy-4-prop-2-enylbenzene / 4-Hydroxy-3-methoxyallylbenzene / 2-Methoxy-4-(2-propenyl)phenol / 2-Methoxy-4-allylphenol / 2-Methoxy-4-prop-2-enylphenol / 2-Methoxy-1-hydroxy-4-allylbenzene / Phenol, 2-methoxy-4-(2-propenyl)- / Phenol, 4-allyl-2-methoxy- / Synthetic eugenol / Phenol, 2-methoxy-4-(2-propenyl)- / Etheric oil / EUGENOL / 1-Hydroxy-2-methoxy-4-propenylbenzene	(CAS-No.) 97-53-0	0.075 – 0.75	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 Skin Sens. 1B, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Linalyl acetate	Acetate, 3,7-dimethyl-1,6-octadien-3-yl / Acetic acid linalool ester / 3,7-Dimethyl-1,6-octadien-3-ol acetate / 3,7-Dimethyl-1,6-octadien-3-yl acetate / Linalool acetate / 1,6-Octadien-3-ol, 3,7-dimethyl-, acetate / 1,6-Octadien-3-ol, 3,7-dimethyl-, 3-acetate / LINALYL ACETATE / Linalyl acetate / 1,5-Dimethyl-1-ethenylhex-4-enyl acetate / 3,7-Dimethylocta-1,6-dien-3-yl acetate / Bergamot mint oil / 3,7-Dimethylocta-1,6-dien-3-ol acetate	(CAS-No.) 115-95-7	0.075 – 0.75	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1B, H317 Aquatic Acute 3, H402
Cinnamaldehyde	Acrolein, 3-phenyl- / Cinnamal / Cinnamic aldehyde / Cinnamyl aldehyde / 3-Phenyl-2-propenal / 3-Phenylacrolein / 3-Phenylacrylaldehyde / 2-Propenal, 3-phenyl- / Cinnamon scent / CINNAMAL / 3-Phenylpropenal / 3-Phenylprop-2-enal	(CAS-No.) 104-55-2	0.075 – 0.75	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1A, H317 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
Coumarin	2H-1-Benzopyran, 2-oxo- / 2H-1-Benzopyran-2-one / 1,2-Benzopyrone / cis-o-Coumarinic acid lactone / Coumarinic anhydride / o-Hydroxycinnamic acid lactone / o-Hydroxycinnamic lactone / Tonka bean camphor / COUMARIN / Benzo-.alpha.-pyrone / 2H-1-Benzopyran-2-one, o-Hydroxycinnamic acid lactone	(CAS-No.) 91-64-5	0.075 – 0.75	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317
Silica, amorphous	Amorphous silica / Silica / Silica, amorphous, fumed / Silica, colloidal / Silicon dioxide / Silicon dioxide, amorphous / SILICA / Silicon(IV) oxide / Un-crystalline silica / Pigment White 27 / Silicon dioxide (amorphous) / Silicon dioxide amorphous / Silicon(IV)oxide / Silica amorphous / Silicon dioxide containing crystalline and amorphous / Fumed silica / SOLUM DIATOMEAE / silicon dioxide	(CAS-No.) 7631-86-9	0.5	Not classified

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Full text of H-phrases: see section 16

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200].

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Skin sensitization. Causes skin irritation. Causes serious eye irritation.

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

Symptoms/Injuries After Ingestion: Not expected to be a primary route of exposure. Ingestion may cause adverse effects.

Chronic Symptoms: Exposure may produce an allergic reaction.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive. If excessive dust is generated from processing, it may present a dust explosion hazard when dispersed in air at sufficient quantities in the presence of an ignition source.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Remove containers from fire area if this can be done without risk. Do not breathe fumes from fires or vapours from decomposition.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrogen oxides. Irritating fumes. Organic compounds. Aldehydes. Acetaldehyde. Peroxides. Ketones. Hydrocarbons. Phenol. Phenolic compounds. Acrid smoke and irritating fumes.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid breathing dust. Do not get in eyes, on skin, or on clothing.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams.

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Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Avoid generation of dust during clean-up of spills. Recover the product by vacuuming, shoveling or sweeping. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: If processed in such a way that dust may be generated, may present a dust explosion hazard in air.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing dust. Avoid contact with skin, eyes and clothing. Use appropriate personal protective equipment (PPE).

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Containers which are opened should be properly resealed and kept upright to prevent leakage. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. Reducing agents. Strong mineral acids. Alkalis. Materials that react with oxygenated terpenes. Aluminum. Amines. Nitric acid. Peroxides. Direct sunlight. Perchlorates.

7.3. Specific End Use(s)

Consumer packaged goods

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Silica, amorphous (7631-86-9)		
USA NIOSH	NIOSH REL (TWA)	6 mg/m ³
USA IDLH	IDLH	3000 mg/m ³
USA OSHA	OSHA PEL (TWA) [1]	6 mg/m ³
USA OSHA	OSHA PEL (TWA) [2]	20 mppcf (80mg/m ³ /%SiO ₂)
Citral (5392-40-5)		
USA ACGIH	ACGIH OEL TWA [ppm]	5 ppm (inhalable fraction and vapor)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer
D-Limonene (5989-27-5)		
USA AIHA	WEEL TWA [ppm]	30 ppm

8.2. Exposure Controls

Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles.



Materials for Protective Clothing

: Chemically resistant materials and fabrics.

Hand Protection

: Wear protective gloves.

Eye and Face Protection

: Chemical safety goggles.

Skin and Body Protection

: Wear suitable protective clothing.

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Respiratory Protection	: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.
Environmental Exposure Controls	: Avoid release to the environment.
Other Information	: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: No data available
Odor	: No data available
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
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	: No data available
Viscosity	: No data available

9.2. Other Information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials. Moisture.

10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers. Reducing agents. Strong mineral acids. Alkalis. Materials that react with oxygenated terpenes. Aluminum. Amines. Nitric acid. Peroxides. Direct sunlight. Perchlorates.

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

Silica, amorphous (7631-86-9)	
LD50 Oral Rat	7900 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg (No deaths)
Octanal, 2-(phenylmethylene)- (101-86-0)	
LD50 Oral Rat	3100 mg/kg
LD50 Dermal Rabbit	> 3000 mg/kg
LC50 Inhalation Rat	> 5 mg/l/4h

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1,6-Nonadien-3-ol, 3,7-dimethyl- (10339-55-6)	
LD50 Oral Rat	5 g/kg
LD50 Dermal Rabbit	> 5 g/kg
4-tert-Butylcyclohexyl acetate (32210-23-4)	
LD50 Oral Rat	3323 – 3885 mg/kg
LD50 Dermal Rabbit	> 5000 mg/kg
Linalool (78-70-6)	
LD50 Oral Rat	2790 mg/kg
Citral (5392-40-5)	
LD50 Oral Rat	4960 mg/kg
LD50 Dermal Rabbit	2250 mg/kg
D-Limonene (5989-27-5)	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rabbit	> 5 g/kg
Decanal (112-31-2)	
LD50 Oral Rat	3730 mg/kg
LD50 Dermal Rabbit	5040 mg/kg
Ethanone, 1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)-, [3R-(3.alpha.,3a.beta.,7.beta.,8a.alpha.)]- (32388-55-9)	
LD50 Dermal Rabbit	> 5000 mg/kg
7-Octen-2-ol, 2,6-dimethyl- (18479-58-8)	
LD50 Oral Rat	3600 mg/kg
LD50 Dermal Rabbit	> 5 g/kg
2H-Pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)- (63500-71-0)	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
2-Buten-1-one, 1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-, (E)- (24720-09-0)	
LD50 Oral Rat	1670 mg/kg
LD50 Dermal Rat	2150 – 2780 mg/kg
Eugenol (97-53-0)	
LD50 Oral Rat	1930 mg/kg
Linalyl acetate (115-95-7)	
LD50 Oral Rat	14550 mg/kg
LD50 Dermal Rabbit	> 5000 mg/kg
Cinnamaldehyde (104-55-2)	
LD50 Oral Rat	2220 mg/kg
LD50 Dermal Rabbit	1260 mg/kg
Coumarin (91-64-5)	
LD50 Oral Rat	293 mg/kg
LD50 Dermal Rat	293 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

Silica, amorphous (7631-86-9)	
IARC group	3
D-Limonene (5989-27-5)	
IARC group	3
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity.
Eugenol (97-53-0)	
IARC group	3

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Coumarin (91-64-5)	
IARC group	3
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity.

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

Symptoms/Injuries After Ingestion: Not expected to be a primary route of exposure. Ingestion may cause adverse effects.

Chronic Symptoms: Exposure may produce an allergic reaction.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Harmful to aquatic life with long lasting effects.

Silica, amorphous (7631-86-9)	
LC50 Fish 1	5000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 - Crustacea [1]	7600 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia)
1,6-Nonadien-3-ol, 3,7-dimethyl- (10339-55-6)	
LC50 Fish 1	24 mg/l (Exposure time: 96 h - Species: Danio rerio)
EC50 - Crustacea [1]	23 mg/l (Exposure time: 48 h - Species: Daphnia magna)
4-tert-Butylcyclohexyl acetate (32210-23-4)	
LC50 Fish 1	8.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
Linalool (78-70-6)	
LC50 Fish 1	27.8 mg/l
EC50 - Crustacea [1]	20 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC Chronic Algae	5.6 mg/l
Citral (5392-40-5)	
LC50 Fish 1	4.1 mg/l
EC50 - Crustacea [1]	7 mg/l (Exposure time: 48 h - Species: Daphnia magna)
D-Limonene (5989-27-5)	
LC50 Fish 1	0.619 (0.619 – 0.796) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	0.421 mg/l
LC50 Fish 2	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
Decanal (112-31-2)	
LC50 Fish 1	1.45 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
Ethanone, 1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)-, [3R-(3.alpha.,3a.beta.,7.beta.,8a.alpha.)]- (32388-55-9)	
LC50 Fish 1	2.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	0.86 mg/l (Exposure time: 48 h - Species: Daphni magna [static])
1,8-Cineol (470-82-6)	
LC50 Fish 1	95.4 – 109 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna [static])
ErC50 (Algae)	> 74 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [static])
NOEC Chronic Fish	32 mg/l
7-Octen-2-ol, 2,6-dimethyl- (18479-58-8)	
LC50 Fish 1	27.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]; Read Across - Linalool)
NOEC Chronic Crustacea	9.5 mg/l
2H-Pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)- (63500-71-0)	
LC50 Fish 1	354 mg/l (Exposure time: 96 h - Species: Salmo gairdneri [static])

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ErC50 (Algae)	> 100 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus [static])
2-Buten-1-one, 1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-, (E)- (24720-09-0)	
EC50 - Crustacea [1]	2.37 mg/l (Exposure time: 48 h - Species: Daphnia magna)
4-Penten-1-one, 1-(5,5-dimethyl-1-cyclohexen-1-yl)- (56973-85-4)	
EC50 - Crustacea [1]	1.7 mg/l (Exposure time: 48 h - Species: Daphnia magna)
ErC50 (Algae)	3.4 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
Eugenol (97-53-0)	
LC50 Fish 1	24 mg/l
NOEC Chronic Fish	10 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
Linalyl acetate (115-95-7)	
LC50 Fish 1	11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through])
Cinnamaldehyde (104-55-2)	
EC50 - Crustacea [1]	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna [Semi-static])
ErC50 (Algae)	4.07 – 6.87 mg/l (Exposure time: 72 h - Species: Selastrun capricornutum)
Coumarin (91-64-5)	
EC50 - Crustacea [1]	13.5 mg/l

12.2. Persistence and Degradability

Lemon Leaf + Thyme	
Persistence and Degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative Potential

Lemon Leaf + Thyme	
Bioaccumulative Potential	Not established.

Silica, amorphous (7631-86-9)	
BCF Fish 1	(no bioaccumulation expected)

Linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2.84 – 3.1 (at 25 °C)

Citral (5392-40-5)	
Partition coefficient n-octanol/water (Log Pow)	2.76 (at 25 °C)

7-Octen-2-ol, 2,6-dimethyl- (18479-58-8)	
Partition coefficient n-octanol/water (Log Kow)	3.47 estimated

Cinnamaldehyde (104-55-2)	
Partition coefficient n-octanol/water (Log Pow)	2.22 (at 18 °C)

12.4. Mobility in Soil

No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Marine Pollutant : Marine pollutant

14.2. In Accordance with IMDG

Marine Pollutant : Marine pollutant

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14.3. In Accordance with IATA

Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Lemon Leaf + Thyme	
SARA Section 311/312 Hazard Classes	Health hazard - Respiratory or skin sensitization Health hazard - Skin corrosion or Irritation Health hazard - Serious eye damage or eye irritation
Silica, amorphous (7631-86-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Octanal, 2-(phenylmethylene)- (101-86-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
1,6-Nonadien-3-ol, 3,7-dimethyl- (10339-55-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
4-tert-Butylcyclohexyl acetate (32210-23-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Linalool (78-70-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Citral (5392-40-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
D-Limonene (5989-27-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Decanal (112-31-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Ethanone, 1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)-, [3R-(3.alpha.,3a.beta.,7.beta.,8a.alpha.)]- (32388-55-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
1,8-Cineol (470-82-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
3-Cyclohexene-1-carboxaldehyde, dimethyl- (68737-61-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
7-Octen-2-ol, 2,6-dimethyl- (18479-58-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
2H-Pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)- (63500-71-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
EPA TSCA Regulatory Flag	PMN - PMN - indicates a commenced PMN substance.
Cyclohexanone, 5-methyl-2-(1-methylethyl)-, (2S-trans)- (14073-97-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
2-Buten-1-one, 1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-, (E)- (24720-09-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
4-Penten-1-one, 1-(5,5-dimethyl-1-cyclohexen-1-yl)- (56973-85-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Eugenol (97-53-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Linalyl acetate (115-95-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Cinnamaldehyde (104-55-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Coumarin (91-64-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	

15.2. US State Regulations

Silica, amorphous (7631-86-9)

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U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - Massachusetts - Right To Know List

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision

: 04/27/2022

Other Information

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200].

GHS Full Text Phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, category 1A
Skin Sens. 1B	Skin sensitization, category 1B
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
H319	Causes serious eye irritation
H320	Causes eye irritation
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

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.

SDS US (GHS HazCom)