Safety data sheet
according to 29 CFR 1910.1200

5547 - NEW ENGLAND COUNTRYSIDE

Date of compilation: 7/8/2022 Version: 1

SECTION 1: IDENTIFICATION

1.1 GHS Product identifier: 5547 - NEW ENGLAND COUNTRYSIDE

Other means of identification:

Non-applicable

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Miscellaneous. For professional users/industrial user only.

Uses advised against: All uses not specified in this section or in section 7.3

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture:

29 CFR 1910.1200:

Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.

Carc. 1B: Carcinogenicity, Category 1B, H350
Repr. 2: Reproductive toxicity, Category 2, H361
Skin Sens. 1B: Sensitisation, skin, Category 1B, H317

2.2 Label elements:

29 CFR 1910.1200:

Danger

Hazard statements:

Carc. 1B: H350 - May cause cancer.
Repr. 2: H361 - Suspected of damaging fertility or the unborn child.
Skin Sens. 1B: H317 - May cause an allergic skin reaction.

Precautionary statements:

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Substances that contribute to the classification

Nutmeg oil; 4-tert-butylcyclohexyl acetate; Hexyl cinnam-aldehyde; 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethan-1-one

2.3 Hazards not otherwise classified (HNOC):

Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Non-applicable

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

3.2 Mixtures:

Chemical description: Aromatising mixture based on natural and/or synthetic ingredients

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 18479-58-8	**2,6-dimethyloct-7-en-2-ol** Eye Irrit. 2A: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315 - Warning	**2.5 - <10 %**
CAS: 8008-45-5	**Nutmeg oil** Asp. Tox. 1: H304; Carc. 1B: H350; Flam. Liq. 3: H226; Skin Sens. 1: H317 - Danger	**2.5 - <10 %**
CAS: 121-32-4	**3-ethoxy-4-hydroxybenzaldehyde** Eye Irrit. 2A: H319 - Warning	**1 - <2.5 %**
CAS: 32210-23-4	**4-tert-butylcyclohexyl acetate** Skin Sens. 1B: H317 - Warning	**1 - <2.5 %**
CAS: 101-86-0	**Hexyl cinnam-aldehyde** Skin Sens. 1B: H317 - Warning	**1 - <2.5 %**
CAS: 118-71-8	**3-hydroxy-2-methyl-4-pyrone** Acute Tox. 4: H302 - Warning	**1 - <2.5 %**
CAS: 8015-91-6	**Cinnamomum verum bark extract ceylon** Eye Irrit. 2A: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Warning	**1 - <2.5 %**
CAS: 91-64-5	**Coumarin** Acute Tox. 4: H302; Skin Sens. 1: H317 - Warning	**1 - <2.5 %**
CAS: 54464-57-2	**1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one** Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	**1 - <2.5 %**
CAS: 97-53-0	**Eugenol** Eye Irrit. 2A: H319; Skin Sens. 1B: H317 - Warning	**<1 %**
CAS: 8000-48-4	**Eucalyptus oil** Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	**<1 %**
CAS: 104-55-2	**Cinnamal** Acute Tox. 4: H312; Eye Irrit. 2A: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	**<1 %**
CAS: 115-95-7	**Linalyl acetate** Eye Irrit. 2A: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	**<1 %**
CAS: 18127-01-0	**3-(4-tert-butylphenyl)propionaldehyde** Repr. 2: H361; Skin Irrit. 2: H315; Skin Sens. 1B: H317; STOT RE 2: H373 - Warning	**<1 %**
CAS: 110-41-8	**2-methylundecanal** Flam. Liq. 4: H227; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	**<1 %**
CAS: 105-87-3	**Geranyl acetate** Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	**<1 %**
CAS: 106-22-9	**Citronellol** Eye Irrit. 2A: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	**<1 %**
CAS: 106-24-1	**Geraniol** Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	**<1 %**
CAS: 67634-00-8	**Allyl (3-methylbutoxy)acetate** Acute Tox. 2: H330; Acute Tox. 4: H302; Flam. Liq. 4: H227 - Danger	**<1 %**
CAS: 104-46-1	**Anethole** Flam. Liq. 4: H227; Skin Sens. 1B: H317 - Warning	**<1 %**
CAS: 123-68-2	**Allyl hexanoate** Acute Tox. 3: H301+H311+H331; Flam. Liq. 4: H227 - Danger	**<1 %**
CAS: 6485-40-1	**L-p-mentha-1(6),8-dien-2-one** Skin Sens. 1B: H317 - Warning	**<1 %**
CAS: 68039-49-6	**2,4-dimethylcyclohex-3-ene-1-carbaldehyde** Flam. Liq. 4: H227; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	**<1 %**

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

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SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation,however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

May cause an allergic skin reaction. In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes on the skin (stinging, redness, rashes, blisters,…), seek medical advice with this Safety Data Sheet

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

For emergency responders:

See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Maintain order, cleanliness and destroy using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in fixed places that comply with the necessary security conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to containers of small amounts. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.:	41 ºF
Maximum Temp.:	86 ºF
Maximum time:	12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

There are no applicable occupational exposure limits for the substances contained in the product

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

Pictogram	PPE	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. Use respirator in accordance with manufacturer´s use limitations and OSHA standard 1910.134 (29CFR)

C.- Specific protection for the hands

Pictogram	PPE	Remarks
 Mandatory hand protection	NON-disposable chemical protective gloves	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. Use gloves in accordance with manufacturer´s use limitations and OSHA standard 1910.138 (29CFR)

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Remarks
 Mandatory face protection	Face shield	Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer´s use limitations and OSHA standard 1910.133 (29CFR)

E.- Bodily protection

Pictogram	PPE	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks	For professional use only. Clean periodically according to the manufacturer´s instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk	Replace boots at any sign of deterioration. Use foot protection in accordance with manufacturer´s use limitations and OSHA standard 1910.136 (29CFR)

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

40 CFR Part 59 (VOC):

V.O.C.(weight-percent): 28.65 % weight

V.O.C. at 77 ºF: 256.92 kg/m³ (256.92 g/L)

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 68 ºF:	Liquid
Appearance:	Translucent
Color:	Yellowish
Odor:	Characteristic
Odour threshold:	Non-applicable *

Volatility:

Boiling point at atmospheric pressure:	532 ºF
Vapour pressure at 77 ºF:	8 Pa
Vapour pressure at 122 ºF:	47.92 Pa (0.05 kPa)
Evaporation rate at 77 ºF:	Non-applicable *

Product description:

Density at 77 ºF:	896.8 kg/m³
Relative density at 77 ºF:	0.897
Dynamic viscosity at 77 ºF:	Non-applicable *
Kinematic viscosity at 77 ºF:	Non-applicable *
Kinematic viscosity at 104 ºF:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 77 ºF:	Non-applicable *
Partition coefficient n-octanol/water 77 ºF:	Non-applicable *
Solubility in water at 77 ºF:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *

Flammability:

Flash Point:	269 ºF
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	464 ºF
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *

Particle characteristics:

Median equivalent diameter:	Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Corrosive to metals:	Non-applicable *
Heat of combustion:	Non-applicable *
Aerosols-total percentage (by mass) of flammable components:	Non-applicable *

Other safety characteristics:

Surface tension at 77 ºF:	Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Refraction index: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO_2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.
  IARC: Coumarin (3); Eugenol (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Suspected of damaging fertility or the unborn child

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Hexyl cinnam-aldehyde	LD50 oral	3100 mg/kg	Rat
CAS: 101-86-0	LD50 dermal	3000 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Allyl hexanoate	LD50 oral	220 mg/kg	
CAS: 123-68-2	LD50 dermal	300 mg/kg	
	LC50 inhalation	3 mg/L (ATEi)	
Coumarin	LD50 oral	500 mg/kg	Rat
CAS: 91-64-5	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	Non-applicable	
2,6-dimethyloct-7-en-2-ol	LD50 oral	3600 mg/kg	
CAS: 18479-58-8	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
3-hydroxy-2-methyl-4-pyrone	LD50 oral	1440 mg/kg	Rat
CAS: 118-71-8	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
3-ethoxy-4-hydroxybenzaldehyde	LD50 oral	3000 mg/kg	Rat
CAS: 121-32-4	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
4-tert-butylcyclohexyl acetate	LD50 oral	3370 mg/kg	
CAS: 32210-23-4	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Allyl (3-methylbutoxy)acetate	LD50 oral	500 mg/kg	Rat
CAS: 67634-00-8	LD50 dermal	Non-applicable	
	LC50 inhalation	0.51 mg/L (4 h)	Rat
Eugenol	LD50 oral	2300 mg/kg	Rat
CAS: 97-53-0	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	Non-applicable	
Eucalyptus oil	LD50 oral	3320 mg/kg	Rat
CAS: 8000-48-4	LD50 dermal	>5000 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Cinnamal	LD50 oral	2100 mg/kg	Rat
CAS: 104-55-2	LD50 dermal	1100 mg/kg	Rat
	LC50 inhalation	Non-applicable	

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
Linalyl acetate	LD50 oral	14500 mg/kg	Rat
CAS: 115-95-7	LD50 dermal	5610 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
2-methylundecanal	LD50 oral	>5000 mg/kg	Rat
CAS: 110-41-8	LD50 dermal	8300 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Citronellol	LD50 oral	3450 mg/kg	Rat
CAS: 106-22-9	LD50 dermal	2650 mg/kg	
	LC50 inhalation	Non-applicable	
Geraniol	LD50 oral	4200 mg/kg	Rat
CAS: 106-24-1	LD50 dermal	5100 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Anethole	LD50 oral	3000 mg/kg	
CAS: 104-46-1	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
L-p-mentha-1(6),8-dien-2-one	LD50 oral	5400 mg/kg	Rat
CAS: 6485-40-1	LD50 dermal	3800 mg/kg	
	LC50 inhalation	Non-applicable	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	LD50 oral	2500 mg/kg	
CAS: 68039-49-6	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

Identification	Concentration		Species	Genus
3-hydroxy-2-methyl-4-pyrone	LC50	Non-applicable		
CAS: 118-71-8	EC50	27 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	7.2 mg/L (72 h)	N/A	Algae
Coumarin	LC50	Non-applicable		
CAS: 91-64-5	EC50	30 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification		Concentration	Species	Genus
Eugenol	LC50	60.8 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 97-53-0	EC50	Non-applicable		
	EC50	Non-applicable		
Eucalyptus oil	LC50	18 mg/L (96 h)	N/A	Fish
CAS: 8000-48-4	EC50	1.02 mg/L (48 h)	N/A	Crustacean
	EC50	1.64 mg/L (72 h)	N/A	Algae
Linalyl acetate	LC50	11 mg/L (96 h)	Cyprinus carpio	Fish
CAS: 115-95-7	EC50	15 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	62 mg/L (72 h)	Desmodesmus subspicatus	Algae
2-methylundecanal	LC50	0.35 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 110-41-8	EC50	0.21 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	0.11 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Allyl (3-methylbutoxy)acetate	LC50	0.77 mg/L (96 h)	N/A	Fish
CAS: 67634-00-8	EC50	5.09 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	2.06 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
L-p-mentha-1(6),8-dien-2-one	LC50	6.1 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 6485-40-1	EC50	38 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	19 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

Chronic toxicity:

Identification		Concentration	Species	Genus
2,6-dimethyloct-7-en-2-ol	NOEC	Non-applicable		
CAS: 18479-58-8	NOEC	9.5 mg/L	Daphnia magna	Crustacean
Cinnamal	NOEC	15.159 mg/L	N/A	Fish
CAS: 104-55-2	NOEC	Non-applicable		
2-methylundecanal	NOEC	Non-applicable		
CAS: 110-41-8	NOEC	0.033 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
2,6-dimethyloct-7-en-2-ol	BOD5	Non-applicable	Concentration	10 mg/L
CAS: 18479-58-8	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	72 %
3-hydroxy-2-methyl-4-pyrone	BOD5	Non-applicable	Concentration	9.64 mg/L
CAS: 118-71-8	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	105.6 %

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Degradability		Biodegradability	
Coumarin	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 91-64-5	COD	Non-applicable	Period	14 days
	BOD5/COD	Non-applicable	% Biodegradable	100 %
Linalyl acetate	BOD5	Non-applicable	Concentration	81 mg/L
CAS: 115-95-7	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	80 %
2-methylundecanal	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 110-41-8	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	68 %
Geraniol	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 106-24-1	COD	Non-applicable	Period	21 days
	BOD5/COD	Non-applicable	% Biodegradable	70 %
Allyl (3-methylbutoxy)acetate	BOD5	Non-applicable	Concentration	240 mg/L
CAS: 67634-00-8	COD	Non-applicable	Period	13 days
	BOD5/COD	Non-applicable	% Biodegradable	78 %
L-p-mentha-1(6),8-dien-2-one	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 6485-40-1	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	90 %

12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential	
Hexyl cinnam-aldehyde	BCF	17
CAS: 101-86-0	Pow Log	
	Potential	Low
Coumarin	BCF	10
CAS: 91-64-5	Pow Log	1.39
	Potential	Low
Eugenol	BCF	31
CAS: 97-53-0	Pow Log	2.27
	Potential	Moderate
Cinnamal	BCF	8
CAS: 104-55-2	Pow Log	1.9
	Potential	Low
Linalyl acetate	BCF	174
CAS: 115-95-7	Pow Log	3.9
	Potential	High

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioaccumulation potential	
2-methylundecanal CAS: 110-41-8	BCF	
	Pow Log	5
	Potential	
Geraniol CAS: 106-24-1	BCF	110
	Pow Log	3.56
	Potential	High
Allyl (3-methylbutoxy)acetate CAS: 67634-00-8	BCF	
	Pow Log	1.85
	Potential	

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
3-ethoxy-4-hydroxybenzaldehyde CAS: 121-32-4	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	1.87E-2 N/m (529.12 ºF)	Moist soil	Non-applicable
Coumarin CAS: 91-64-5	Koc	42	Henry	Non-applicable
	Conclusion	Very High	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
Cinnamal CAS: 104-55-2	Koc	37	Henry	3.546E-1 Pa·m³/mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	Non-applicable	Moist soil	Yes
Linalyl acetate CAS: 115-95-7	Koc	518	Henry	177 Pa·m³/mol
	Conclusion	Low	Dry soil	Yes
	Surface tension	Non-applicable	Moist soil	Yes
2-methylundecanal CAS: 110-41-8	Koc	4000	Henry	Non-applicable
	Conclusion	Low	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
Allyl (3-methylbutoxy)acetate CAS: 67634-00-8	Koc	80	Henry	Non-applicable
	Conclusion	Very High	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
Anethole CAS: 104-46-1	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	3.404E-2 N/m (77 ºF)	Moist soil	Non-applicable

12.5 Results of PBT and vPvB assessment:

Non-applicable

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SECTION 12: ECOLOGICAL INFORMATION (continued)

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See epigraph 6.2.

Regulations related to waste management:

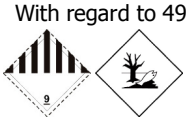
Legislation related to waste management:

40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:



14.1 UN number: UN3082

14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl cinnam-aldehyde; Nutmeg oil)

14.3 Transport hazard class(es): 9

Labels: 9

14.4 Packing group, if applicable: III

14.5 Marine pollutant: Yes

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

Limited quantities: 5 L

Under 49 CFR 171.4, Except when transporting aboard a vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars, and aircraft

14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 40-20:

14.1 UN number: UN3082

14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl cinnam-aldehyde; Nutmeg oil)

14.3 Transport hazard class(es): 9

Labels: 9

14.4 Packing group, if applicable: III

14.5 Marine pollutant: Yes

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Special regulations: 335, 969, 274

EmS Codes: F-A, S-F

Physico-Chemical properties: see section 9

Limited quantities: 5 L

Segregation group: Non-applicable

14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Non-applicable

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SECTION 14: TRANSPORT INFORMATION (continued)

Transport of dangerous goods by air:

With regard to IATA/ICAO 2022:

14.1	**UN number:**	UN3082
14.2	**UN proper shipping name:**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl cinnam-aldehyde; Nutmeg oil)
14.3	**Transport hazard class(es):**	9
	Labels:	9
14.4	**Packing group, if applicable:**	III
14.5	**Marine pollutant:**	Yes
14.6	**Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**	
	Physico-Chemical properties:	see section 9
14.7	**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):**	Non-applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): Non-applicable
California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Cancer: Non-applicable
The Toxic Substances Control Act (TSCA) : 2,6-dimethyloct-7-en-2-ol ; Nutmeg oil ; 3-ethoxy-4-hydroxybenzaldehyde ; 4-tert-butylcyclohexyl acetate ; Hexyl cinnam-aldehyde ; 3-hydroxy-2-methyl-4-pyrone ; Cinnamomum verum bark extract ceylon ; Coumarin ; 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one ; Eugenol ; Eucalyptus oil ; Cinnamal ; Linalyl acetate ; 3-(4-tert-butylphenyl)propionaldehyde ; 2-methylundecanal ; Geranyl acetate ; Citronellol ; Geraniol ; Allyl (3-methylbutoxy)acetate ; Anethole ; Allyl hexanoate ; L-p-mentha-1(6),8-dien-2-one ; 2,4-dimethylcyclohex-3-ene-1-carbaldehyde
Massachusetts RTK - Substance List: Non-applicable
New Jersey Worker and Community Right-to-Know Act: Non-applicable
New York RTK - Substance list: Non-applicable
Pennsylvania Worker and Community Right-to-Know Law: Non-applicable
CANADA-Domestic Substances List (DSL): 2,6-dimethyloct-7-en-2-ol ; Nutmeg oil ; 3-ethoxy-4-hydroxybenzaldehyde ; 4-tert-butylcyclohexyl acetate ; Hexyl cinnam-aldehyde ; 3-hydroxy-2-methyl-4-pyrone ; Cinnamomum verum bark extract ceylon ; Coumarin ; 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one ; Eugenol ; Eucalyptus oil ; Cinnamal ; Linalyl acetate ; 3-(4-tert-butylphenyl)propionaldehyde ; 2-methylundecanal ; Geranyl acetate ; Citronellol ; Geraniol ; Allyl (3-methylbutoxy)acetate ; Anethole ; Allyl hexanoate ; L-p-mentha-1(6),8-dien-2-one ; 2,4-dimethylcyclohex-3-ene-1-carbaldehyde
CANADA-Non-Domestic Substances List (NDSL): Non-applicable
NTP (National Toxicology Program): Non-applicable
Minnesota - Hazardous substances ERTK: Non-applicable
Rhode Island - Hazardous substances RTK: Non-applicable
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable
Hazardous Air Pollutants (Clean Air Act): Non-applicable
CALIFORNIA LABOR CODE - The Hazardous Substances List: Coumarin ; Eugenol
California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Birth defects or other reproductive harm: Non-applicable
Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Take into consideration other applicable federal, state, and local laws and local regulations.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:
This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets
Texts of the legislative phrases mentioned in section 2:

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SECTION 16: OTHER INFORMATION (continued)

H361: Suspected of damaging fertility or the unborn child.
H317: May cause an allergic skin reaction.
H350: May cause cancer.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

Acute Tox. 2: H330 - Fatal if inhaled.
Acute Tox. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.
Acute Tox. 4: H302 - Harmful if swallowed.
Acute Tox. 4: H312 - Harmful in contact with skin.
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
Carc. 1B: H350 - May cause cancer.
Eye Dam. 1: H318 - Causes serious eye damage.
Eye Irrit. 2A: H319 - Causes serious eye irritation.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Flam. Liq. 4: H227 - Combustible liquid.
Repr. 2: H361 - Suspected of damaging fertility or the unborn child.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Skin Sens. 1B: H317 - May cause an allergic skin reaction.
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).
STOT SE 3: H335 - May cause respiratory irritation.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
CL50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon
IARC: International Agency for Research on Cancer

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END OF SAFETY DATA SHEET