

Safety Data Sheet

According to Feder Register | Vol. 77, No. 58 | Monday, March 26, 2012 | Rules & Regulations Issue Date: 9/23/2019 | Revision Date: 8/29/2023 | Supersedes: 3/9/2021

Version: 1.2

SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Name Product Form

Rustic Escentuals™ Pumpkin Ginger & Apple Fragrance Oil Mixture

1.2 RECOMMENDED USE AND RESTRICTIONS ON USE

No additional information available

1.3 NAME, ADDRESS, AND TELEPHONE OF THE RESPONSIBLE PARTY

Supplier Details

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

1.4 EMERGENCY TELEPHONE NUMBER

Emergency ⁷	Telephone
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(800) 255-3924 +1 813 248-0585

3924Domestic USA, Canada, Puerto Rico, and US Virgin Islands**8-0585**International

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Flammable liquids, Category 4	H227	Combustible liquid
Skin corrosion/irritation, Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation,	H319	Causes serious eye irritation
Category 2		
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation

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
	H361 - Suspected of damaging fertility or the unborn child
Precautionary statements (GHS US)	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.
	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.

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

2.3 OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION

No additional information available

2.4 UNKNOWN ACUTE TOXICITY (GHS US)

Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCE

Not applicable

3.2 MIXTURE

Name	CAS No.	%	GHS US classification
Cinnamal	104-55-2	10 - 30	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317
Eugenol	97-53-0	5 - 10	Eye Irrit. 2, H319 Skin Sens. 1B, H317
Hexyl Cinnamal	101-86-0	5 - 10	Skin Sens. 1B, H317
Ethyl Vanillin	121-32-4	1 - 5	Eye Irrit. 2, H319
Fructone	6413-10-1	1 - 5	Flam. Liq. 4, H227 Skin Corr. 1C, H314 Eye Dam. 1, H318
Vanillin	121-33-5	1 - 5	Eye Irrit. 2, H319
Geranyl Acetate	105-87-3	1 - 5	Skin Irrit. 2, H315 Skin Sens. 1B, H317
1,3-benzodioxole-5-carbaldehyde	120-57-0	1 - 5	Skin Sens. 1B, H317
Limonene	5989-27-5	< 0.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

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

4.2 MOST IMPORTANT SYMPTOMS AND EFFECT (ACUTE AND DELAYED)

Symptoms/effects after skin contact
Symptoms/effects after eye contact

Irritation. May cause an allergic skin reaction. Eye irritation.

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4.3 IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT, IF NECESSARY

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable Extinguishing Media

Water spray. Dry powder. Foam. Carbon dioxide.

5.2 SPECIAL HAZARDS ARISING FROM THE CHEMICAL

Fire hazard

Combustible liquid.

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.

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. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

6.1.2 FOR EMERGENCY RESPONDERS

Protective equipment

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

6.2 ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

 Methods for cleaning up
 Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

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

6.4 REFERENCE TO OTHER SECTIONS

For further information refer to section 13.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Precautions for safe handlingEnsure good ventilation of the work station. Obtain special instructions before use. Do not handle until
all safety precautions have been read and understood. Wear personal protective equipment. Avoid
contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.Hygiene measuresWash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of
the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling
the product.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage conditions

Store in a well-ventilated place. Keep cool.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS1

Cinnamic Aldehyde (104-55-2)
Not applicable
D-Limonene (5989-27-5)
Not applicable
Ethyl Vanillin (121-32-4)
Not applicable
Eugenol (97-53-0)
Not applicable
Fructone (6413-10-1)
Not applicable
Geranyl Acetate (105-87-3)
Not applicable
Heliotropin (120-57-0)
Not applicable
Hexyl Cinnamic Aldehyde (101-86-0)
Not applicable
Vanillin (121-33-5)
Not applicable

8.2 APPROPRIATE ENGINEERING CONTROLS

Appropriate engineering controls Environmental exposure controls Ensure good ventilation of the work station. Avoid release to the environment.

8.3 INDIVIDUAL PROTECTION MEASURES/PERSONAL PROTECTIVE EQUIPMENT

Hand protection Eye protection Skin and body protection Respiratory protection Personal protective equipment equipment symbol(s) Protective gloves Safety glasses Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Color	Mixture contains one or more component(s) which have the following colour(s):
	Colourless Colourless to light yellow Light yellow to colourless On exposure to air: yellow-brown
	White White to off-white light yellow Colourless to white On exposure to light: turns yellow On exposure to air: turns yellow 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:
	Fruity odour Aromatic odour Mild odour Pine odour Floral odour Irritating/pungent odour Almond odour Pleasant odour Lemon odour Characteristic odour Odourless Sweet odour

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Odor threshold	No data available
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Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	≈ 83 °C
Relative evaporation rate (butyl acetate=1)	No data available
Flammability	Not applicable
Vapor pressure	No data available
Relative vapor density at 20°C	No data available
Relative density	No data available
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosion limits	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 OTHER INFORMATION

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

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

10.2 CHEMICAL STABILITY

Stable under normal conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reactions known under normal conditions of use.

10.4 CONDITIONS TO AVOID

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

10.5 INCOMPATIBLE MATERIALS

No additional information available

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON LIKELY ROUTES OF EXPOSURE

Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	Not classified Not classified Not classified	
Cinnamic Aldehyde (104-55-2)		
ATE US (oral)		2200 mg/kg body weight
ATE US (dermal)		1100 mg/kg body weight

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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)	
Ethyl Vanillin (121-32-4)		
LD50 oral rat	> 3160 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, 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, 14 day(s))	
ATE US (oral)	3000 mg/kg body weight	
Eugenol (97-53-0)		
ATE US (oral)	2500 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	
Heliotropin (120-57-0)		
LD50 oral rat	2700 mg/kg (Rat, Oral)	
LD50 dermal rat	> 5000 mg/kg (Rat, Dermal)	
ATE US (oral)	2700 mg/kg body weight	
Hexyl Cinnamic Aldehyde (101-86-0)		
	3100 mg/kg body weight	
Hexyl Cinnamic Aldehyde (101-86-0)	3100 mg/kg body weight	
Hexyl Cinnamic Aldehyde (101-86-0) ATE US (oral)	3300 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental	
Hexyl Cinnamic Aldehyde (101-86-0) ATE US (oral) Vanillin (121-33-5) LD50 oral rat	3300 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female,	
Hexyl Cinnamic Aldehyde (101-86-0) ATE US (oral) Vanillin (121-33-5) LD50 oral rat LD50 dermal rat	3300 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))	
Hexyl Cinnamic Aldehyde (101-86-0) ATE US (oral) Vanillin (121-33-5) LD50 oral rat LD50 dermal rat ATE US (oral)	3300 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s)) 3300 mg/kg body weight	
Hexyl Cinnamic Aldehyde (101-86-0) ATE US (oral) Vanillin (121-33-5) LD50 oral rat LD50 dermal rat ATE US (oral) Skin corrosion/irritation	3300 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s)) 3300 mg/kg body weight Causes skin irritation.	
Hexyl Cinnamic Aldehyde (101-86-0) ATE US (oral) Vanillin (121-33-5) LD50 oral rat LD50 dermal rat ATE US (oral) Skin corrosion/irritation Serious eye damage/irritation	3300 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s)) 3300 mg/kg body weight Causes skin irritation. Causes serious eye irritation.	
Hexyl Cinnamic Aldehyde (101-86-0) ATE US (oral) Vanillin (121-33-5) LD50 oral rat LD50 dermal rat ATE US (oral) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization	3300 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s)) 3300 mg/kg body weight Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.	
Hexyl Cinnamic Aldehyde (101-86-0) ATE US (oral) Vanillin (121-33-5) LD50 oral rat LD50 dermal rat ATE US (oral) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	3300 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s)) 3300 mg/kg body weight Causes skin irritation. Causes serious eye irritation.	
Hexyl Cinnamic Aldehyde (101-86-0) ATE US (oral) Vanillin (121-33-5) LD50 oral rat LD50 dermal rat ATE US (oral) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	3300 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s)) 3300 mg/kg body weight Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Not classified	
Hexyl Cinnamic Aldehyde (101-86-0) ATE US (oral) Vanillin (121-33-5) LD50 oral rat LD50 dermal rat ATE US (oral) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	3300 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s)) 3300 mg/kg body weight Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Not classified	
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12.1 TOXICITY

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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)
Ethyl Vanillin (121-32-4)	
LC50 - Fish [1]	87.6 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
EC50 - Crustacea [1]	36.79 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Read-across, GLP)
ErC50 algae	120 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP)
Fructone (6413-10-1)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
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)
Vanillin (121-33-5)	
LC50 - Fish [1]	57 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
EC50 - Crustacea [1]	36.79 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	120 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

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	
Ethyl Vanillin (121-32-4)		
Persistence and degradability	Readily biodegradable in water.	
ThOD	1.81 g O ₂ /g substance	
BOD (% of ThOD)	0.529 (5 day(s), Literature study)	
Geranyl Acetate (105-87-3)		
Persistence and degradability	Readily biodegradable in water.	
ThOD	2.6 g O ₂ /g substance	
Heliotropin (120-57-0)		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.	
ThOD	1.71 g O ₂ /g substance	
Vanillin (121-33-5)		
Persistence and degradability	Readily biodegradable in water.	

12.3 BIOACCUMULATIVE POTENTIAL

D-Limonene (5989-27-5)	
BCF - Fish [1]	864.8 – 1022 (Pisces, QSAR, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C)

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Potential for bioaccumulation ($4 \ge Log \text{ Kow} \le 5$).	
1.58 (Experimental value, Equivalent or similar to OECD 107, 25 °C)	
Low potential for bioaccumulation (Log Kow < 4).	
1500 (Estimated value)	
4.04 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)	
Potential for bioaccumulation ($4 \ge Log$ Kow ≤ 5).	
2.84 (Experimental value, Equivalent or similar to OECD 107, 25 °C)	
Low potential for bioaccumulation (Log Kow < 4).	
1.17 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)	
Low potential for bioaccumulation (Log Kow < 4).	

12.4 MOBILITY IN SOIL

D-Limonene (5989-27-5)		
Ecology - soil	Adsorbs into the soil.	
Ethyl Vanillin (121-32-4)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.092 (log Koc, Equivalent or similar to OECD 106, Experimental value)	
Ecology - soil	Low potential for mobility 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.	
Vanillin (121-33-5)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.438 (log Koc, Experimental value)	
Ecology - soil	Low potential for mobility in soil.	

12.5 OTHER ADVERSE EFFECTS

No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Waste treatment methods

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

SECTION 14: TRANSPORT INFORMATION

14.1 DEPARTMENT OF TRANSPORTATION (DOT)

Transport document description (DOT)	Transport document	description	(DOT)
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UN-No.(DOT)

UN3082 Environmentally hazardous substances, liquid, n.o.s. (2-TERT-BUTYLCYCLOHEXYL ACETATE (88-41-5)), 9, III UN3082

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Proper Shipping Name (DOT)

	2-TERT-BOTTECTCEONEXTE AGETATE (08-41-3)
Class (DOT)	9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
Packing group (DOT)	III - Minor Danger
Hazard labels (DOT)	9 - Class 9 (Miscellaneous dangerous materials)
DOT Packaging Non Bulk (49 CFR 173.xxx)	203
DOT Packaging Bulk (49 CFR 173.xxx)	241
DOT Symbols	G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping
	description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.
	146 - This description may be used for a material that poses a hazard to the environment but does
	not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this
	subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as
	environmentally hazardous by the Competent Authority of the country of origin, transit or destination.
	173 - An appropriate generic entry may be used for this material.
	335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids
	or solids may be classified as "Environmentally hazardous substances, solid, n.o.s," UN3077 and
	may be transported under this entry, provided there is no free liquid visible at the time the material is
	loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.
	IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite
	(31HZ1 and 31HA2, 31HB2, 31HD2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a
	vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar
	at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
	TP1 - The maximum degree of filling must not exceed the degree of filling determined by the
	following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature
	during transport, and the temperature in degrees celsius of the liquid during filling.
	TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided
	the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as
	defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	155 No lineit
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	No limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	No limit
DOT Vessel Stowage Location	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Emergency Response Guide (ERG) Number	171

Environmentally hazardous substances, liquid, n.o.s. 2-TERT-BUTYLCYCLOHEXYL ACETATE (88-41-5)

14.2 TRANSPORTATION OF DANGEROUS GOODS

Not applicable

14.3 TRANSPORT BY SEA

Transport document description (IMDG)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-TERT- BUTYLCYCLOHEXYL ACETATE (88-41-5)), 9, III
UN-No. (IMDG)	3082
Proper Shipping Name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class (IMDG)	9 - Miscellaneous dangerous substances and articles
Packing group (IMDG)	III - substances presenting low danger
Limited quantities (IMDG)	5 L

14.4 AIR TRANSPORT

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Transport document description (IATA)	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (2-TERT-BUTYLCYCLOHEXYL
	ACETATE (88-41-5)), 9, III
UN-No. (IATA)	3082
Proper Shipping Name (IATA)	Environmentally hazardous substance, liquid, n.o.s.
Class (IATA)	9 - Miscellaneous Dangerous Substances and Articles
Packing group (IATA)	III - Low danger

SECTION 15: REGULATORY INFORMATION

15.1 US FEDERAL REGULATIONS

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

Name	CAS No.	%
Cinnamal	104-55-2	10 - 30
Eugenol	97-53-0	5 - 10
Hexyl Cinnamal	101-86-0	5 - 10
Ethyl Vanillin	121-32-4	1 - 5
Fructone	6413-10-1	1 - 5
Vanillin	121-33-5	1 - 5
Geranyl Acetate	105-87-3	1 - 5
1,3-benzodioxole-5-carbaldehyde	120-57-0	1 - 5
Limonene	5989-27-5	< 0.5

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

15.2 INTERNATIONAL REGULATIONS

15.2.1 CANADA
Cinnamic Aldehyde (104-55-2)
Listed on the Canadian DSL (Domestic Substances List)
D-Limonene (5989-27-5)
Listed on the Canadian DSL (Domestic Substances List)
Ethyl Vanillin (121-32-4)
Listed on the Canadian DSL (Domestic Substances List)
Eugenol (97-53-0)
Listed on the Canadian DSL (Domestic Substances List)
Fructone (6413-10-1)
Listed on the Canadian DSL (Domestic Substances List)
Geranyl Acetate (105-87-3)
Listed on the Canadian DSL (Domestic Substances List)
Heliotropin (120-57-0)
Listed on the Canadian DSL (Domestic Substances List)
Hexyl Cinnamic Aldehyde (101-86-0)
Listed on the Canadian DSL (Domestic Substances List)

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Vanillin (121-33-5)

Listed on the Canadian DSL (Domestic Substances List)

15.2.2 EU REGULATIONS

No additional information available

15.2.3 NATIONAL REGULATIONS

Cinnamic Aldehyde (104-55-2)

Cinnamic Aldehyde (104-55-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on KECI (Korean Existing Chemicals Inventory) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on the Japanese ENCS (Existing New Chemical Substances) inventory Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the EC Inventory Listed on the EC Inventory	
D-Limonene (5989-27-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on KECI (Korean Existing Chemicals Inventory) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the Japanese ENCS (Existing New Chemical Substances) inventory Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the EC Inventory Listed on the Australian HSIS Consolidated List Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)	
Ethyl Vanillin (121-32-4)	
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the Japanese ENCS (Existing New Chemical Substances) inventory Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the EC Inventory Listed on the EC Inventory Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on KECI (Korean Existing Chemicals Inventory)	
Eugenol (97-53-0)	
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the Japanese ENCS (Existing New Chemical Substances) inventory Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the EC Inventory Listed on the EC Inventory Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on KECI (Korean Existing Chemicals Inventory)	

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Fructone (6413-10-1)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the Japanese ENCS (Existing New Chemical Substances) inventory Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the EC Inventory Listed on the EC Inventory Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on KECI (Korean Existing Chemicals Inventory)
Geranyl Acetate (105-87-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on KECI (Korean Existing Chemicals Inventory) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the Japanese ENCS (Existing New Chemical Substances) inventory Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the EC Inventory Listed on the EC Inventory
Heliotropin (120-57-0)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the Japanese ENCS (Existing New Chemical Substances) inventory Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the EC Inventory Listed on the EC Inventory Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on KECI (Korean Existing Chemicals Inventory)
Hexyl Cinnamic Aldehyde (101-86-0)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the Japanese ENCS (Existing New Chemical Substances) inventory Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the EC Inventory Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on KECI (Korean Existing Chemicals Inventory)
Vanillin (121-33-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on KECI (Korean Existing Chemicals Inventory) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the Japanese ENCS (Existing New Chemical Substances) inventory Listed on the Japanese ENCS (Existing New Chemical Substances) inventory Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the EC Inventory Listed on the EC Inventory
SECTION 16: OTHER INFORMATION
Revision Date 8/29/2023

Full text of H-phrases:	
H226	Flammable liquid and vapor
H227	Combustible liquid

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Full text of H-phrases:H304May be fatal if swallowed and enters airwaysH312Harmful in contact with skinH314Causes severe skin burns and eye damageH315Causes skin irritationH317May cause an allergic skin reactionH318Causes serious eye damageH319Causes serious eye irritation

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.