

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and RegulationsIssue date: 12/04/2017Revision date: 11/16/2020Supersedes: 11/16/2020

SECTION 1: Identification Identification 1.1. Product form : Substance CEDARWOOD TEXAS WHITE OIL Product name CAS-No. 68990-83-0 Product code 50-6075-01 Recommended use and restrictions on use 1.2. No additional information available 1.3. **Supplier** Lotus Brands, Inc. 1100 E. Lotus Drive Silver Lake WI 53181 PH: (262) 889-8561 1.4. **Emergency telephone number** : (800) 824-6396 Emergency number SECTION 2: Hazard(s) identification Classification of the substance or mixture 2.1. **GHS US classification** Skin corrosion/irritation Category 2 Causes skin irritation Skin sensitization, category 1B May cause an allergic skin reaction Aspiration hazard Category 1 May be fatal if swallowed and enters airways **GHS Label elements, including precautionary statements** 2.2. **GHS US labeling** Hazard pictograms (GHS US) GHS07 GHS08 Signal word (GHS US) : Danger Hazard statements (GHS US) : May be fatal if swallowed and enters airways Causes skin irritation May cause an allergic skin reaction Precautionary statements (GHS US) Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center or doctor. If on skin: Wash with plenty of water. Specific treatment (see supplemental first aid instruction on this label). Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. Store locked up. 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

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2.4. Unknown acute toxicity (GHS U				
Not applicable				
SECTION 3: Composition/Inform	ation on ingredients			
3.1. Substances	5			
Name		Product identifier	%	GHS US classification
CEDARWOOD OIL		(CAS-No.) 68990-83-0	100	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
Full text of hazard classes and H-statement	ts : see section 16	•		
.2. Mixtures				
Not applicable				
SECTION 4: First-aid measures				
I.1. Description of first aid measure	es			
First-aid measures general	: Call a physician immedia	itely.		
First-aid measures after inhalation	: Remove person to fresh	air and keep comfortable for	or breathin	g.
First-aid measures after skin contact	: Wash skin with plenty of Get medical advice/atter		ted clothin	g. If skin irritation or rash occurs:
First-aid measures after eye contact First-aid measures after ingestion	Rinse eyes with water asDo not induce vomiting.	s a precaution. Call a physician immediatel	у.	
.2. Most important symptoms and	effects (acute and delayed)			
Symptoms/effects after skin contact	: Irritation. May cause an a	allergic skin reaction.		
Symptoms/effects after ingestion	: Risk of lung edema.	0		
.3. Immediate medical attention ar	nd special treatment, if necessar	v		
reat symptomatically.	····, ····,			
SECTION 5: Fire-fighting measu	res			
5.1. Suitable (and unsuitable) extin				
Suitable extinguishing media	: Water spray. Dry powde	r. Foam. Carbon dioxide.		
.2. Specific hazards arising from t	he chemical			
Reactivity	: The product is non-react	ive under normal conditions	s of use, s	torage and transport.
3.3. Special protective equipment a	and precautions for fire-fighters			
Protection during firefighting		ction without suitable protec	tive equip	ment. Self-contained breathing
	apparatus. Complete pro			
SECTION 6: Accidental release r				
.1. Personal precautions, protective	ve equipment and emergency pr	ocedures		
5.1.1. For non-emergency personnel				
Emergency procedures	: Ventilate spillage area. A dust/fume/gas/mist/vapor	Avoid contact with skin and rs/spray.	eyes. Avo	id breathing
6.1.2. For emergency responders				
Protective equipment	: Do not attempt to take ad	ction without suitable proted	ctive equip	ment. For further information
	refer to section 8: "Expos	sure controls/personal prote	ection".	
2. Environmental precautions				
void release to the environment.				
.3. Methods and material for conta	inment and cleaning up			
Methods for cleaning up	: Take up liquid spill into a	bsorbent material.		
Other information	: Dispose of materials or s	olid residues at an authoriz	zed site.	
.4. Reference to other sections				

For further information refer to section 13.

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SECTION 7: Handling and	storage
7.1. Precautions for safe har	ndling
Precautions for safe handling	Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe stor	age, including any incompatibilities
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep cool.
SECTION 8: Exposure cont	trols/personal protection
8.1. Control parameters	
CEDARWOOD OIL (68990-83-0)	
No additional information available)
8.2. Appropriate engineering	a controls
Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection me	easures/Personal protective equipment
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
In case of insufficient ventilation, we respiratory equipment	ear suitable
SECTION 9: Physical and c	
	ysical and chemical properties
Physical state	
O lan	: PALE YELLOW/AMBER TO YELLOW/AMBER
Odor Odor threahold	: CEDAR, WOODY, PERSISTENT ODOR
Odor threshold	: No data available
pH Malifana analat	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available

Flash point : 100 °C Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : Not applicable.

Vapor pressure : No data available

Relative vapor density at 20 °C : No data available

Relative density : 0.958 (0.948 - 0.968)

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Solubility	: Insoluble.
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	
VOC content	: 8.8 %
Refractive index	: 1.507 (1.497 – 1.527)

SECTION 10: Stability and reactivity	V		
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 o	conditions of use.		
10.4. Conditions to avoid	10.4. Conditions to avoid		
None under recommended storage and handling conditions (see section 7).			
10.5. Incompatible materials	10.5. Incompatible materials		
No additional information available			
10.6. Hazardous decomposition products			
Under normal conditions of storage and use, hazardous decomposition products should not be produced.			
SECTION 11: Toxicological information			
11.1. Information on toxicological effect	ts		
Acute toxicity	: Not classified		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Not classified		
Respiratory or skin sensitization	: May cause an allergic skin reaction.		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		

11.1. Information on toxicological eff	iects
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after ingestion	: Risk of lung edema.
SECTION 12: Ecological informa	tion
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2. Persistence and degradability	
No additional information available	

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12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods

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

SECTION 14: Transport information

Department of Transportation (DOT) In accordance with DOT Not regulated

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

CEDARWOOD OIL (68990-83-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

CEDARWOOD OIL (68990-83-0)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Full text of H-phrases:			
	H304	May be fatal if swallowed and enters airways	
		-	
	H315	Causes skin irritation	
	H317	May cause an allergic skin reaction	

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.



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SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: FIR NEEDLE SIBERIAN OIL
CAS-No.	: 8021-29-2
Product code	: 50-6125-01
1.2. Recommended use and restriction	ons on use
No additional information available	
1.3. Supplier	
otus Brands, Inc.	
100 E. Lotus Drive	
silver Lake WI 53181 2H: (262) 889-8561	
1.4. Emergency telephone number	
Emergency number	: (800) 824-6396
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance of	or mixture
GHS US classification	
Flammable liquids Category 3	Flammable liquid and vapour
Skin corrosion/irritation Category 2	Causes skin irritation
Serious eye damage/eye irritation Category 2	
Skin sensitization, Category 1 Aspiration hazard Category 1	May cause an allergic skin reaction May be fatal if swallowed and enters airways
Aspiration nazaru Gategory 1	May be fatar in swallowed and effets all ways
2.2. GHS Label elements, including p	precautionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
	GHS02 GHS07 GHS08
Signal word (GHS US)	: Danger
Hazard statements (GHS US)	: Flammable liquid and vapour
1 1a2a10 Statements (STS US)	May be fatal if swallowed and enters airways
	Causes skin irritation
	May cause an allergic skin reaction
	Causes serious eye irritation
Precautionary statements (GHS US)	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking. Keep container tightly closed.
	Ground/Bond container and receiving equipment.
	Use explosion-proof electrical/ventilating/lighting equipment.
	Use only non-sparking tools.
	Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapours/spray.
	Wash hands, forearms and face thoroughly after handling.
	Contaminated work clothing must not be allowed out of the workplace.
	Wear protective gloves/protective clothing/eye protection/face protection.
	If swallowed: Immediately call a poison center or doctor.
	If on skin: Wash with plenty of water. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water/shower.

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and easy to do. Continue rinsing.
Specific treatment (see supplemental first aid instruction on this label).
Do NOT induce vomiting.
If skin irritation occurs: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Wash contaminated clothing before reuse.
In case of fire: Use media other than water to extinguish.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point, in accordance
with local, regional, national and/or international regulation.

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances			
Name	Product identifier	%	GHS US classification
FIR NEEDLE OIL	(CAS-No.) 8021-29-2	100	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304

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

3.2. Mixtures		
Not applicable		
SECTION 4: First-aid measures		
4.1. Description of first aid measures		
First-aid measures general	: Call a physician immediately.	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.	
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.	
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
First-aid measures after ingestion	: Do not induce vomiting. Call a physician immediately.	
4.2. Most important symptoms and effect	s (acute and delayed)	
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.	
Symptoms/effects after eye contact	: Eye irritation.	
Symptoms/effects after ingestion	: Risk of lung edema.	
4.3. Immediate medical attention and special treatment, if necessary		
Treat symptomatically.		
SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishi	ng media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Specific hazards arising from the che	emical	
Fire hazard	: Flammable liquid and vapour.	
Reactivity	: Flammable liquid and vapour.	
5.3. Special protective equipment and protecti	ecautions for fire-fighters	

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equipment and emergency procedures				
6.1.1. For non-emergency personnel Emergency procedures :	Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/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				
	Collect spillage. Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.			
Other information :	Dispose of materials or solid residues at an authorized site.			
6.4. Reference to other sections				
For further information refer to section 13.				
SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Precautions for safe handling :	Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.			
Hygiene measures :	Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.			
7.2. Conditions for safe storage, including a	any incompatibilities			
	Ground/bond container and receiving equipment.			
Storage conditions :	Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.			
SECTION 8: Exposure controls/person	al protection			
8.1. Control parameters				
FIR NEEDLE SIBERIAN OIL (8021-29-2)				
Not applicable				
8.2. Appropriate engineering controls				
	Ensure good ventilation of the work station. Avoid release to the environment.			
8.3. Individual protection measures/Personal protective equipment				
Hand protection:				
Protective gloves				
Eye protection:				
Safety glasses				
Skin and body protection:				
Wear suitable protective clothing				
-				

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In case of insufficient ventilation, wear suitable

respiratory equipment

SECTION 9: Physical and chemical properties

		9.1.	Information on	basic physica	al and chemical	properties
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5.1. Information on basic physical and	chemical properties
Physical state	: Liquid
	: COLORLESS TO PALE YELLOW LIQUID
Odor	: AROMATIC ODOR
Odor threshold	: No data available
pН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 43 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 0.897 (0.887 - 0.907)
Solubility	: Insoluble.
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	
VOC content	: 88.6 %

SECTION 10: Stability and reactivity					
10.1. Reactivity Flammable liquid and vapour.					
10.2. Chemical stability					
Stable under normal conditions.					
10.3. Possibility of hazardous reactions					
No dangerous reactions known under normal conditions of use.					
10.4. Conditions to avoid					
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.					
10.5. Incompatible materials					
No additional information available					
10.6. Hazardous decomposition products					
Under normal conditions of storage and use, hazardous decomposition products should not be produced.					
SECTION 11: Toxicological information					
11.1. Information on toxicological effects					
Acute toxicity : Not classified					
Skin corrosion/irritation : Causes skin irritation.					

Refractive index

: 1.47 (1.462 - 1.477)

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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		
Reproductive toxicity	: Not classified		
STOT-single exposure	: Not classified		
STOT-repeated exposure	: Not classified		
Aspiration hazard	: May be fatal if swallowed and enters airways.		
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.		
Symptoms/effects after eye contact	: Eye irritation.		
Symptoms/effects after ingestion	: Risk of lung edema.		
SECTION 12: Ecological informatio	n		
12.1. Toxicity			
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.		
12.2. Persistence and degradability			
No additional information available			
12.3. Bioaccumulative potential			
No additional information available			
12.4. Mobility in soil			
No additional information available			
12.5. Other adverse effects			
No additional information available			
SECTION 13: Disposal consideration	ons		
13.1. Disposal methods			
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.		
Additional information	: Flammable vapors may accumulate in the container.		
SECTION 14: Transport information			
Department of Transportation (DOT)			
In accordance with DOT			
Not regulated			
Transportation of Dangerous Goods Not applicable			
Transport by sea			
Transport document description (IMDG)	: UN 1266 PERFUMERY PRODUCTS, 3, III		
UN-No. (IMDG)	: 1266		
Proper Shipping Name (IMDG)	: PERFUMERY PRODUCTS		
Class (IMDG)	: 3 - Flammable liquids		
Packing group (IMDG)	: III - substances presenting low danger		
Limited quantities (IMDG)	: 5L		
Air transport	· LIN 1266 Porfumory producto 2 III		
Transport document description (IATA)	: UN 1266 Perfumery products, 3, III		
UN-No. (IATA) Proper Shipping Name (IATA)	: 1266 : Perfumery products		

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Class (IATA)	: 3 - Flammable Liquids				
Packing group (IATA)	: III - Minor Danger				
SECTION 15: Regulatory information					
15.1. US Federal regulations					
FIR NEEDLE OIL (8021-29-2)					
Listed on the United States TSCA (Toxic Substances Control Act) inventory					

15.2. International regulations

CANADA

FIR NEEDLE OIL (8021-29-2)	
Listed on the Canadian DSL (Domestic Substances List)	

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

This product can expose you to myrcene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information		
Revisio	n date	: 11/30/2018
Full text of H-phrases:		
H226 Flammable I		Flammable liquid and vapour
H304		May be fatal if swallowed and enters airways
H315 Causes skin irritation		Causes skin irritation
H317 May cause an allergic skin read		May cause an allergic skin reaction
H319 Causes serious eye irrita		Causes 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.



SAFETY DATA SHEET

2012 OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200)

Revision Number 5 Revision date 07-Aug-2020 Issuing Date 28-Aug-2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier Product Code Product Name

11300031 Lavender 40/42 Essence Natural

CAS No

N/A

Recommended use of the chemical and restrictions on use

Recommended useAromatic Ingredient(s). For Industrial Use Only.Restrictions on useDo not ingest as such. Avoid eye contact.

Details of the supplier of the safety data sheet Supplier Lotus Brands, Inc. 1100 E. Lotus Drive Silver Lake WI 53181 PH: (262) 889-8561

Emergency telephone number Emergency Telephone

(800) 824-6396

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1B
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 2
Aspiration hazard	Category 1
Flammable liquids	Category 4

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Signal word Danger

Hazard statements

Causes skin irritation Causes serious eye damage May cause an allergic skin reaction Suspected of damaging fertility or the unborn child May cause damage to organs May be fatal if swallowed and enters airways Combustible liquid



Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Contaminated work clothing must not be allowed out of the workplace Do not breathe dust/fume/gas/mist/vapors/spray Do not eat, drink or smoke when using this product Keep away from flames and hot surfaces. - No smoking

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention Specific treatment (see supplemental first aid instructions on this label) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor IF ON SKIN: Wash with plenty of water and soap Take off contaminated clothing and wash it before reuse If skin irritation or rash occurs: Get medical advice/attention IF SWALLOWED: Immediately call a POISON CENTER or doctor Do NOT induce vomiting In case of fire: Use CO2, dry chemical, or foam to extinguish

Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

May be harmful if swallowed. Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%	GHS Classification
Linalool	78-70-6	40 - 50	Flam. Liq. 4 (H227)
			Acute Tox. Oral 5 (H303)
			Skin Irrit. 2 (H315)
			Eye Irrit. 2A (H319)
			Skin Sens. 1B (H317)
			Aquatic Acute 3 (H402)
Linalyl acetate	115-95-7	30 - 40	Flam. Liq. 4 (H227)
			Skin Irrit. 2 (H315)
			Eye Irrit. 2B (H320)
			Skin Sens. 1B (H317)
			Aquatic Acute 3 (H402)
Eucalyptol	470-82-6	5.0 - 10	Flam. Liq. 3 (H226)
			Acute Tox. Oral 5 (H303)
			Skin Irrit. 3 (H316)
			Skin Sens. 1B (H317)
dl-Camphor	21368-68-3	5.0 - 10	STOT SE 2 (H371)

			Skin Irrit. 2 (H315)
			Flam. Sol. 2 (H228)
			Eye Dam. 1 (H318)
			Aquatic Chronic 2 (H411)
			Aquatic Acute 2 (H401)
			Acute Tox. Oral 4 (H302)
			Acute Tox. Inhalation - dust and mist 4
			(H332)
cis-beta-Ocimene	3338-55-4	1.0 - 5.0	Flam. Liq. 3 (H226)
		110 010	Acute Tox. Oral 5 (H303)
			Skin Irrit. 2 (H315)
			Asp. Tox. 1 (H304)
			Aquatic Acute 1 (H400)
4. Converse at the real	500 74 0	10 50	Aquatic Chronic 2 (H411)
4-Carvomenthenol	562-74-3	1.0 - 5.0	Flam. Liq. 4 (H227)
			Acute Tox. Oral 4 (H302)
			Acute Tox. Dermal 5 (H313)
			Skin Irrit. 2 (H315)
			Eye Irrit. 2A (H319)
			Aquatic Acute 3 (H402)
1,7,7-Trimethylbicyclo[2.2.1]hep	76-22-2	1.0 - 5.0	STOT SE 2 (H371)
tan-2-one			Skin Irrit. 2 (H315)
			Flam. Sol. 2 (H228)
			Eye Dam. 1 (H318)
			Acute Tox. Inhalation - dust and mist 4
			(H332)
beta-Caryophyllene	87-44-5	1.0 - 5.0	Skin Sens. 1B (H317)
bota caryophynonio	01 11 0	110 010	Asp. Tox. 1 (H304)
			Aquatic Chronic 4 (H413)
3,7-Dimethyl-1,3,6-octatriene	13877-91-3	1.0 - 5.0	Flam. Liq. 3 (H226)
3,7-Dimetriyi-1,3,0-Octamene	13077-91-3	1.0 - 5.0	Acute Tox. Oral 5 (H303)
			Skin Irrit. 2 (H315)
			Asp. Tox. 1 (H304)
			Aquatic Acute 1 (H400)
			Aquatic Chronic 2 (H411)
beta-Pinene	127-91-3	1.0 - 5.0	Flam. Liq. 3 (H226)
			Skin Irrit. 2 (H315)
			Skin Sens. 1B (H317)
			Asp. Tox. 1 (H304)
			Aquatic Acute 1 (H400)
			Aquatic Chronic 1 (H410)
beta-Farnesene	18794-84-8	1.0 - 5.0	Skin Irrit. 3 (H316)
			Asp. Tox. 1 (H304)
Limonene	5989-27-5	1.0 - 5.0	Flam. Liq. 3 (H226)
Einonono	0000 21 0	1.0 0.0	Skin Irrit. 2 (H315)
			Skin Sens. 1B (H317)
			Asp. Tox. 1 (H304)
			Aquatic Acute 1 (H400)
		4.0	Aquatic Chronic 3 (H412)
Borneol	507-70-0	1.0 - 5.0	Skin Irrit. 2 (H315)
			Flam. Sol. 1 (H228)
			Aquatic Chronic 2 (H411)
			Aquatic Acute 2 (H401)
			Acute Tox. Oral 5 (H303)
1-Octen-3-yl acetate	2442-10-6	1.0 - 5.0	Flam. Liq. 4 (H227)
			Acute Tox. Oral 4 (H302)
			Skin Sens. 1B (H317)
alpha-Terpineol	98-55-5	1.0 - 5.0	Flam. Liq. 4 (H227)
			Acute Tox. Oral 5 (H303)
			Skin Irrit. 2 (H315)
			Eye Irrit. 2A (H319)
			Aquatic Acute 2 (H401)
alpha-Pinene	80-56-8	0.1 - 1.0	Flam. Liq. 3 (H226)
	00-00-0	0.1 - 1.0	1 ani. Liq. 5 (11220)

			Acute Tox. Oral 4 (H302)
			Skin Irrit. 2 (H315)
			Skin Sens. 1B (H317)
			Asp. Tox. 1 (H304)
			Aquatic Acute 1 (H400)
			Aquatic Chronic 1 (H410)
1-Octen-3-ol	3391-86-4	0.1 - 1.0	Skin Sens. 1B (H317)
			Skin Irrit. 2 (H315)
			Flam. Liq. 4 (H227)
			Eye Irrit. 2A (H319)
			Aquatic Acute 2 (H401)
			Acute Tox. Dermal 5 (H313)
			Acute Tox. Inhalation - dust and mist 4
			(H332) A sute Tax, Oral 2 (H201)
	105.07.0		Acute Tox. Oral 3 (H301)
Geranyl acetate	105-87-3	0.1 - 1.0	Skin Sens. 1B (H317)
			Skin Irrit. 2 (H315)
			Aquatic Chronic 3 (H412)
	400.04.4	0.4.4.0	Aquatic Acute 2 (H401)
Geraniol	106-24-1	0.1 - 1.0	Skin Sens. 1B (H317)
			Skin Irrit. 2 (H315)
			Eye Dam. 1 (H318)
			Aquatic Acute 3 (H402)
h sta NA usa su s	400.05.0	04.40	Acute Tox. Oral 5 (H303)
beta-Myrcene	123-35-3	0.1 - 1.0	Flam. Liq. 3 (H226)
			Skin Irrit. 2 (H315)
			Eye Irrit. 2A (H319)
			Asp. Tox. 1 (H304)
			Aquatic Acute 1 (H400)
Terrinelene	500.00.0	0.1 - 1.0	Aquatic Chronic 2 (H411)
Terpinolene	586-62-9	0.1 - 1.0	Skin Sens. 1B (H317)
			Skin Irrit. 3 (H316)
			Flam. Liq. 4 (H227) Asp. Tox. 1 (H304)
			Aquatic Chronic 1 (H410)
			Aquatic Chronic 1 (H410) Aquatic Acute 1 (H400)
			Acute Tox. Oral 5 (H303)
Camphene	79-92-5	0.1 - 1.0	Flam. Sol. 2 (H228)
Camphene	15-52-5	0.1 - 1.0	Eye Irrit. 2B (H320)
			Aquatic Acute 1 (H400)
			Aquatic Chronic 1 (H410)
Nerol	106-25-2	0.1 - 1.0	Acute Tox. Oral 5 (H303)
	100 20 2	0.1 1.0	Skin Irrit. 2 (H315)
			Eye Irrit. 2A (H319)
			Skin Sens. 1B (H317)
			Aquatic Acute 2 (H401)
Coumarin	91-64-5	0.1 - 1.0	Acute Tox. Oral 4 (H302)
Countaint	51 51 5	0.1 1.0	Skin Sens. 1B (H317)
			Aquatic Acute 3 (H402)
			Aquatic Chronic 3 (H412)
p-Cymene	99-87-6	0.1 - 1.0	Skin Irrit. 3 (H316)
p cymono	00 07 0	0.1 1.0	Repr. 2 (H361)
			Flam. Liq. 3 (H226)
			Asp. Tox. 1 (H304)
			Aquatic Chronic 2 (H411)
			Aquatic Acute 2 (H401)
			Acute Tox. Oral 5 (H303)
delta-3-Carene	13466-78-9	0.1 - 1.0	Skin Sens. 1 (H317)
		0 110	Skin Irrit. 2 (H315)
			Flam. Liq. 3 (H226)
			Asp. Tox. 1 (H304)
			Aquatic Chronic 1 (H410)
			Aquatic Acute 1 (H400)
			1

			Acute Tox. Oral 5 (H303) Acute Tox. Inhalation - dust and mist 4 (H332)
Carvacrol	499-75-2	0.1 - 1.0	Acute Tox. Oral 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1B (H317) Aquatic Acute 3 (H402)
p-Mentha-1,4-diene	99-85-4	0.1 - 1.0	Skin Irrit. 3 (H316) Repr. 2 (H361) Flam. Liq. 3 (H226) Acute Tox. Oral 5 (H303) Aquatic Chronic 2 (H411)

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures		
General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention. Delayed pulmonary edema may occur.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.	
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If symptoms persist, call a physician.	
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical advice/attention.	
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Burning sensation. Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically. Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances.	

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Large Fire	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam. CAUTION: Use of water spray when fighting fire may be inefficient.		
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.		
Specific hazards arising from the chemical	Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Product is or contains a sensitizer. May cause sensitization by skin contact.		
Explosion data Sensitivity to mechanical impact	None.		
Sensitivity to static discharge	Yes.		
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.		

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak.
Other information	Refer to protective measures listed in Sections 7 and 8.
Methods and material for contain	ment and cleaning up
Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal.
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
1,7,7-Trimethylbicyclo[2.2.1]hep tan-2-one 76-22-2	STEL: 3 ppm synthetic TWA: 2 ppm synthetic	TWA: 2 mg/m ³ (vacated) TWA: 2 mg/m ³	IDLH: 200 mg/m ³ TWA: 2 mg/m ³ synthetic
beta-Pinene 127-91-3	dermal sensitizer TWA: 20 ppm	-	-
alpha-Pinene 80-56-8	dermal sensitizer TWA: 20 ppm	-	-
delta-3-Carene 13466-78-9	dermal sensitizer TWA: 20 ppm	-	-

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.		
Individual protection measures, such as personal protective equipment			
Eye/face protection	Tight sealing safety goggles.		
Hand protection	Wear suitable gloves. Impervious gloves.		
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing.		
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.		
General hygiene considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.		

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and o Physical state Appearance Odor Odor threshold	<u>chemical properties</u> Liquid Colorless to pale yellow Characteristic No information available	
Property pH Melting point / freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Vapor Pressure (mm Hg @ 20°C): Vapor density Relative density	<u>Values</u> > 35 °C 74 °C / 165 °F	Remarks • Method No information available No information available No information available CC (closed cup) No information available No information available No information available No information available

11300031 - Lavender 40/42 Essence Natural

Specific Gravity @ 20/20 °C	0.8850-0.8990	RTM-101
Solubility(ies)		
Water solubility		No information available
Solubility in other solvents		No information available
Partition coefficient		No information available No information available
Autoignition temperature Decomposition temperature		No information available
Viscosity		No information available
hooonly		
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
	10. STABILITY AND RE	ACTIVITY
Reactivity		
Reactivity	No information available.	
-		
Chemical stability	No information available. Stable under normal conditions.	
-	Stable under normal conditions.	
Chemical stability	Stable under normal conditions.	
Chemical stability Possibility of hazardous reactions	Stable under normal conditions.	oxidizing agents.

Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information		
Inhalation	Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract.	
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes. (based on components).	
Skin contact	Specific test data for the substance or mixture is not available. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Repeated exposure may cause skin dryness or cracking. Causes skin irritation.	
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways.	
Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms	Redness. Burning. May cause blindness. Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness. May cause redness and tearing of the eyes.	
Acute toxicity		
Numerical measures of toxicity		

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	3,397.10 mg/kg
ATEmix (dermal)	> 5000 mg/kg
ATEmix (inhalation-dust/mist)	14.20 mg/l

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. Irritating to skin.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.
Respiratory or skin sensitization	May cause sensitization by skin contact.
Germ cell mutagenicity	No information available.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical name	ACGIH	IĂRC	NTP
Carvacrol 499-75-2		Group 2A	
100 10 2			

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Persistence and degradability

No information available.

Bioaccumulation

There is no data for this product.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods	
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
IATA/ICAO UN/ID no Proper shipping name Hazard class Packing group	3082 Environmentally hazardous substance, liquid, n.o.s. (dl-Camphor and cis-beta-Ocimene) 9 III

UN number	3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (dl-Camphor and cis-beta-Ocimene)
Transport hazard class(es)	9
Packing group	111
EmS-No	F-A, S-F

15. REGULATORY INFORMATION

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

<u>SARA 311/312 Hazard Categories</u> Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

16. OTHER INFORMATION

Disclaimer

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

End of Safety Data Sheet



SAFETY DATA SHEET

This safety data sheet complies with the requirements of: OSHA CFR Title 29 CFR 1910.1200

Version 5.03

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier Product Code(s) Product name

3103 Oil Spearmint First Cutting FCC (Native Variety) (Mentha spicata)

UN/ID No EC-No CAS-No FEMA Numbers

3082 283-656-2 8008-79-5 3032

Recommended use of the chemical and restrictions on useRecommended UseNo information available.Uses advised againstNo information available

Manufacturer Lotus Brands, Inc. 1100 E. Lotus Drive Silver Lake WI 53181 PH: (262) 889-8561

Emergency telephone

(800) 824-6396

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin Sensitization	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 4

GHS Label elements, including precautionary statements

Emergency Overview

Danger

Hazard Statements

Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction May be fatal if swallowed and enters airways Combustible liquid



Physical state liquid

Aroma reminiscent of carvone

Precautionary Statements - Response

Specific treatment (see .? on this label)

IF IN EYES: 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 IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

Rinse mouth

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other information

- May be harmful in contact with skin
- Toxic to aquatic life with long lasting effects

Toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
CARVONE	99-49-0	50-90%	*
LIMONENE	5989-27-5	15-20%	*
PINENES	80-56-8	1-5%	*

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin contact	Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash

	off immediately with soap and plenty of water. Immediate medical attention is not required.	
Inhalation	Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Call a physician. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors or decomposition products.	
Ingestion	Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician. Rinse mouth. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.	
Self-protection of the first aider	Use personal protective equipment.	
Most important symptoms/effects, acute and delayed		
Main Symptoms	Hives.	
Indication of immediate medical attention and special treatment needed, if necessary		
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.	

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use. Dry chemical. Carbon dioxide CO2. Water spray. Alcohol-resistant foam.

Unsuitable extinguishing media

Decomposition by contact with water may generate vapors which can be ignited by heat or open flame.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization in susceptible persons. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion data Sensitivity to Mechanical Impact none. Sensitivity to Static Discharge Yes.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and materials for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up. Take precautionary measures against static discharges.		
	7. HANDLING AND STORAGE		
Precautions for safe handling			
Advice on safe handling	Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and open flame. No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).		
Conditions for safe storage, including	ng any incompatibilities		
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep away from heat.		
Incompatible products	None known based on information supplied.		
8. EXPOSURE CONTROLS/PERSONAL PROTECTION			
Control parameters			
Exposure Guidelines	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.		
Exposure controls			
Engineering Controls	Showers Eyewash stations Ventilation systems.		
Individual protection measures, such as personal protective equipment			
Eye/face protection	Tightly fitting safety goggles. Face-shield.		
Skin and body protection	Chemical resistant apron.		
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection must be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.		
General Hygiene Considerations	When using, do not eat, drink or smoke. Wash contaminated clothing before reuse. Provide regular cleaning of equipment, work area and clothing.		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical state Appearance Aroma Color

Property

pН . Melting/freezing point Boiling point/boiling range Flash Point **Evaporation rate** Flammability (solid, gas) Flammability Limits in Air Upper flammability limit lower flammability limit Vapor pressure mm Hg 20°C Vapor density Specific Gravity @ 25C Specific Gravity @ 20C **Refractive Index @ 20C** Water solubility Solubility in other solvents Partition coefficient: n-octanol/water Autoignition temperature **Decomposition temperature** Viscosity, kinematic Viscosity, dynamic **Explosive properties Oxidizing Properties**

Other information

Softening point Molecular Weight VOC Content(%) Density VALUE Bulk Density VALUE liquid clear reminiscent of carvone water white to pale yellow

Values

NA NA 63 °C / 145 °F No information available No information available

No information available No information available

0.9170 - 0.9340 0.9200 - 0.9370 1.4840 - 1.4910 insoluble

r No information available No information available

No information available No information available No information available

No information available No information available 22 No information available No information available

Method

No information available FCC Method FCC Method Closed cup No information available No information available No information available

No information available No information available FCC Method FCC Method FCC Method

No information available No information available No information available No information available No information available

10. STABILITY AND REACTIVITY

Reactivity No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Heat, flames and sparks.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Product does not present ar	Product does not present an acute toxicity hazard based on known information		
Inhalation	There is no data available for	There is no data available for this product.		
Eye contact	There is no data available for	or this product.		
Skin contact	There is no data available for	There is no data available for this product.		
Ingestion	There is no data available for	There is no data available for this product.		
Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation	
CARVONE	1640 mg/kg (Rat)	-	-	

Chemical Name	Urai LD50	Dermai LD50	LC50 Innalation
CARVONE	1640 mg/kg (Rat)	-	-
99-49-0			
LIMONENE	4400 mg/kg (Rat)	2000 mg/kg (Rabbit)	-
5989-27-5			
PINENES	2100 mg/kg (Rat)	5000 mg/kg (Rat)	-
80-56-8			

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Germ Cell Mutagenicity Carcinogenicity

No information available.

No information available.

This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly

carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
LIMONENE		Group 3		
5989-27-5				

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity	No information available.
Specific target organ systemic	No information available.
toxicity (single exposure)	
Specific target organ systemic	No information available.
toxicity (repeated exposure)	

Chronic toxicity	Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated
	exposure.
Aspiration hazard	No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

. mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects

18% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	log Pow
PINENES	4.1
80-56-8	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods	Dispose of in accordance with local regulations.

Contaminated packaging

Do not reuse container.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
LIMONENE	Toxic
5989-27-5	

14. TRANSPORT INFORMATION

DOT/ADR UN/ID No Proper shipping name Hazard class Packing Group ERG Code	Not regulated (If shipped in NON BULK packaging by ground transport) 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIMONENE, PINENES) 9 III 171
<u>ICAO/IATA</u> UN/ID No Proper shipping name Hazard class Packing Group	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIMONENE, PINENES) 9 III
IMDG / IMO UN/ID No Proper shipping name Hazard class Packing Group Marine pollutant	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIMONENE, PINENES) 9 III This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO

15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	no
Fire Hazard	Yes
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product is not, to the best of our knowledge, subject to the labeling requirements under California Proposition 65

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
PINENES	X	Х	X
80-56-8			
ILO EDAL al al informa	(lau		

U.S. EPA Label information

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazard 2	Flammability 2	Instability 0	Physical and chemical
HMIS	Health Hazard 2	Flammability 2	Physical Hazard 0	hazards * Personal protection B

Revision Date	08-Nov-2019
Revision Note	No information available
Revision#	5.03

WARNING/DISCLAIMER:

Our ingredients have not been tested, nor have they been determined safe, for inhalation or use in any electronic smoking devices, electronic nicotine delivery systems, electronic cigarettes, or other similar devices (collectively "E-Cigarettes") or in any E-Liquids used with E-Cigarettes. By receiving Citrus and Allied Essences Ltd. ingredients, the recipient confirms that they will not use these ingredients in connection with the manufacture and distribution of E-Cigarettes, E-Liquids or any component thereof. WE DISCLAIM, TO THE FULLEST EXTENT PERMITTED BY LAW, ALL WARRANTIES, EXPRESS OR IMPLIED, and disclaim all liability in connection with the use of our ingredients in connection with E-Cigarettes and E-Liquids. All such risks are assumed by you and the user.

Disclaimer

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



SAFETY DATA SHEET

This safety data sheet complies with the requirements of: OSHA CFR Title 29 CFR 1910.1200

Version 6.03

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier Product Code(s) Product name

150320 OIL LEMON CALIFORNIA TYPE C.P. EXTRA FCC

 UN/ID No
 1993

 EC-No
 284-515-8

 CAS-No
 8008-56-8

 FEMA Numbers
 2625

Recommended use of the chemical and restrictions on use Recommended Use No information available.

Uses advised against

No information available. No information available

Manufacturer

Lotus Brands, Inc. 1100 E. Lotus Drive Silver Lake WI 53181 PH: (262) 889-8561

Emergency telephone

(800) 824-6396

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin Sensitization	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 3

GHS Label elements, including precautionary statements

Emergency Overview

Danger

Hazard Statements

Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction May be fatal if swallowed and enters airways Flammable liquid and vapor

150320 OIL LEMON CALIFORNIA TYPE C.P. EXTRA FCC



Precautionary Statements - Response

Specific treatment (see .? on this label)

IF IN EYES: 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

If skin irritation or rash occurs: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other information

- May be harmful if swallowed
- May be harmful in contact with skin
- · Very toxic to aquatic life with long lasting effects
- · Very toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
LIMONENE	5989-27-5	50-90%	*
BETA PINENE	127-91-3	10-15%	*
GAMMA TERPINENE	99-85-4	5-10%	*
CITRAL	5392-40-5	1-5%	*
MYRCENE	123-35-3	1-5%	*

4. FIRST AID MEASURES

First aid measures for different exposure routes

General adviceImmediate medical attention is required. Show this material safety data sheet to the doctor
in attendance. If symptoms persist, call a physician.Eye contactRinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If
symptoms persist, call a physician. Immediately flush with plenty of water. After initial
flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye
wide open while rinsing.

Skin contact	Wash off immediately with plenty of water. Wash contaminated clothing before reuse. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.	
Inhalation	Move to fresh air. If symptoms persist, call a physician. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. Move to fresh air in case of accidental inhalation of vapors or decomposition products.	
Ingestion	Do NOT induce vomiting. Drink plenty of water. Immediate medical attention is not required. Rinse mouth. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.	
Self-protection of the first aider	Remove all sources of ignition. Use personal protective equipment.	
Most important symptoms/effects, acute and delayed		
Main Symptoms	Hives.	
Indication of immediate medical attention and special treatment needed, if necessary		
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.	

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use. Dry chemical. Carbon dioxide CO₂. Water spray. Alcohol-resistant foam.

Unsuitable extinguishing media

Decomposition by contact with water may generate vapors which can be ignited by heat or open flame.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization in susceptible persons. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion data

Sensitivity to Mechanical Impact none. Sensitivity to Static Discharge Yes.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

 Personal precautions
 Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

 Environmental precautions
 Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do

not flush into surface water or sanitary sewer system. Beware of vapors accumulating to

form explosive concentrations. Vapors can accumulate in low areas.

Methods and materials for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Soak up with inert absorbent material. Take precautionary measures against static discharges.

7. HANDLING AND STORAGE

Precautions for safe handling

Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of Advice on safe handling ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in area provided with appropriate exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat, sparks and open flame. No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Incompatible products

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
BETA PINENE	TWA: 20 ppm	-	
127-91-3			
CITRAL	TWA: 5 ppm inhalable fraction	-	
5392-40-5	and vapor		
	S*		

Exposure controls

Engineering Controls	Showers	
	Eyewash stations	
	Ventilation systems.	

Individual protection measures, such as personal protective equipment

Eye/face protection	Tightly fitting safety goggles. Face-shield.
Skin and body protection	Chemical resistant apron.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection must be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical state Appearance Aroma Color liquid clear characteristic of lemon peel pale to deep yellow or greenish yellow

Values

NA °C

NA °C

46 °C / 115 °F

0.8490 - 0.8550

0.8520 - 0.8580 1.4730 - 1.4760

Practically insoluble

No information available

No information available

No information available

No information available

Property pН Melting/freezing point Boiling point/boiling range Flash Point **Evaporation rate** Flammability (solid, gas) Flammability Limits in Air Upper flammability limit lower flammability limit Vapor pressure mm Hg 20°C Vapor density Specific Gravity @ 25C Specific Gravity @ 20C **Refractive Index @ 20C** Water solubility Solubility in other solvents Partition coefficient: n-octanol/water

Partition coefficient: n-octanol/wate

QSAR model (KOWWIN v1.67a)

EU Method A.15

No information available No information available

Explosive properties Oxidizing Properties

Other information

Softening point Molecular Weight VOC Content(%) Density VALUE Bulk Density VALUE r

No information available No information available

No information available No information available 83 No information available No information available

Method

No information available Visual observation equivalent/similar to OECD 103 Closed cup No information available No information available No information available

No information available No information available FCC Method FCC Method FCC Method

No information available log Kow 3.33 – 6.3. The fraction of log Kow >4 was 91% Autoignition 235 °C temperature Decomposition temperature

Viscosity, kinematic Viscosity, dynamic No information available No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Heat, flames and sparks.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Chemical Name	Oral I D50	Dermal I D50	LC50 Inhalation
Ingestion	There is no data available for this product.		
Skin contact	There is no data available for this product.		
Eye contact	There is no data available	o for this product.	
Inhalation	There is no data available	o for this product.	
Product Information	Product does not present	an acute toxicity hazard based or	known information

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
LIMONENE 5989-27-5	4400 mg/kg (Rat)	2000 mg/kg (Rabbit)	-
BETA PINENE 127-91-3	= 4700 mg/kg(Rat)	-	-
CITRAL 5392-40-5	4950 mg/kg (Rat)	2250 mg/kg(Rabbit)2000 mg/kg (Rat)	-
MYRCENE 123-35-3	> 5 g/kg (Rat)	> 5 g/kg (Rabbit)	-

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Germ Cell Mutagenicity Carcinogenicity	carcinogenic	n available. contains one or more subs	tances which are classified ably carcinogenic to humar	,
	0			
Chemical Name	ACGIH	IARC	NTP	OSHA

Chemical Name	ACGIH	IARC	NTP	OSHA
LIMONENE		Group 3		
5989-27-5				
IAPC (International Aganay for Pasaarah on Canaar)				

IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity	No information available.
Specific target organ systemic	No information available.
toxicity (single exposure)	
Specific target organ systemic	No information available.
toxicity (repeated exposure)	

Chronic toxicity	Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated
	exposure.
Aspiration hazard	No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document. mg/kg > 5000 mg/kgDermal LD50 > 10,000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects

2% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	log Pow
CITRAL	2.76
5392-40-5	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment	
Waste Disposal Methods	Dispose of in accordance with local regulations.
Contaminated packaging	Do not reuse container.
US EPA Waste Number	D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status	
LIMONENE	Toxic	
5989-27-5		

14. TRANSPORT INFORMATION

DOT/ADR	Not regulated (If shipped in NON BULK packaging by ground transport)
UN/ID No	1993
Proper shipping name	Flammable Liquid, N.O.S. (Limonene)
Hazard class	3
Packing Group	III
ERG Code	128
ICAO/IATA UN/ID No Proper shipping name Hazard class Packing Group	1993 Flammable Liquid, N.O.S. (Limonene) 3 III

IMDG / IMO UN/ID No Proper shipping name

1993 Flammable Liquid, N.O.S. (Limonene)

Hazard class	3
Packing Group	III
Marine pollutant	This product contains a chemical which is listed as a marine pollutant according to
•	IMDG/IMO

15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard	Categories
---------------------	------------

Acute Health Hazard	Yes
Chronic Health Hazard	no
Fire Hazard	Yes
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
MYRCENE - 123-35-3	Carcinogen

U.S. State Right-to-Know Regulations

150320 OIL LEMON CALIFORNIA TYPE C.P. EXTRA FCC

Chemical Name	New	Jersey	Massachusetts	Pennsylvania
PINENES		Х	Х	Х
80-56-8	ation			
I.S. EPA Label informa	ation			
		16. OTHER INFOR	MATION	
NFPA	Health Hazard 2	Flammability 2	Instability 0	Physical and chemical hazards *
HMIS	Health Hazard 2	Flammability 2	Physical Hazard 0	Personal protection B
Prepared By Lotus Brands, Inc. 1100 E. Lotus Drive Silver Lake WI 53181 PH: (262) 889-8561				
Revision Date Revision Note	08-Mar-2 No inform	019 nation available		
Revision#	6.03			
VARNING/DISCLAIME				v electronic empliing devices

Our ingredients have not been tested, nor have they been determined safe, for inhalation or use in any electronic smoking devices, electronic nicotine delivery systems, electronic cigarettes, or other similar devices (collectively "E-Cigarettes") or in any E-Liquids used with E-Cigarettes. By receiving Lotus Brands, Inc. ingredients, the recipient confirms that they will not use these ingredients in connection with the manufacture and distribution of E-Cigarettes, E-Liquids or any component thereof. WE DISCLAIM, TO THE FULLEST EXTENT PERMITTED BY LAW, ALL WARRANTIES, EXPRESS OR IMPLIED, and disclaim all liability in connection with the use of our ingredients in connection with E-Cigarettes and E-Liquids. All such risks are assumed by you and the user.

Disclaimer

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

end



Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 08/19/2020

SECTION 1: Identification		
1.1. Identification		
Substance name	: Cassia oil (Cinnamomum cassia)	
CAS-No.	: 8007-80-5	
1.2. Relevant identified uses of the substa	ance or mixture and uses advised agains	st
Use of the substance/mixture	: Industrial uses: Uses of substances as s	such or in preparations* at industrial sites
1.3. Details of the supplier of the safety d	ata sheet	
Lotus Brands, Inc.		
1100 E. Lotus Drive		
Silver Lake WI 53181		
PH: (262) 889-8561		
1.4. Emergency telephone number	. (800) 824 6206	
Emergency number	: (800) 824-6396	
SECTION 2: Hazard(s) identification		
2.1. Classification of the substance or mi	kture	
GHS-US classification		
Acute Tox. 4 (Oral)	H302 - H311 -	Harmful if swallowed. Toxic in contact with skin.
Acute Tox. 3 (Dermal) Skin Irrit. 2	H311 - H315 -	Causes skin irritation.
Eye Irrit. 2	H319 -	Causes serious eye irritation.
Skin Sens. 1	H317 -	May cause an allergic skin reaction.
Full text of H-statements: see section 16		
2.2. Label elements		
GHS US labelling		
Hazard pictograms (GHS US)		
	\mathbf{v}	
Signal word (GHS US)	GHS06 GHS07 : Danger	
Hazard statements (GHS US)	: H302 - Harmful if swallowed.	
	H311 - Toxic in contact with skin.	
	H315 - Causes skin irritation. H317 - May cause an allergic skin reacti	on.
	H319 - Causes serious eye irritation.	-
Precautionary statements (GHS US)	: P261 - Avoid breathing dust/fume/gas/m	
	P264 - Wash hands thoroughly after har P270 - Do not eat, drink or smoke when	
	P272 - Contaminated work clothing mus	t not be allowed out of the workplace.
	P280 - Wear protective gloves/protectiv P301+P312 - IF SWALLOWED: Call a F	e clotning/eye protection POISON CENTER/doctor if you feel unwell.
	P302+P352 - IF ON SKIN: Wash with p	lenty of water/
	contact lenses, if present and easy to de	cautiously with water for several minutes. Remove c. Continue rinsing.
	P312 - Call a POISON CENTER/doctor	if you feel unwell.
	P321 - Specific treatment (see supplem P322 - Specific treatment (see supplem	,
	P330 - Rinse mouth.	
	P332+P313 - If skin irritation occurs: Ge P333+P313 - If skin irritation or rash occ	
	P337+P313 - If eye irritation persists: G	et medical advice/attention.
	P361+P364 - Take off immediately all co P362+P364 - Take off contaminated clo	ontaminated clothing and wash it before reuse. thing and wash it before reuse
	P363 - Wash contaminated clothing before	
	P405 - Store locked up.	

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P501 - Dispose in a safe manner in accordance with local/national regulations

lo additional information available			
2.4. Unknown acute toxicity (GHS U	IS)		
Not applicable			
SECTION 3: Composition/inform	ation on ingredients		
3.1. Substances			
Substance type	: UVCB		
Name	: Cassia oil (Cinnamomum cassia)		
CAS-No.	: 8007-80-5		
Name	Product identifier	%	GHS-US classification
CINNAMIC ALDEHYDE	(CAS-No.) 104-55-2	>= 80	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317
Benzaldehyde	(CAS-No.) 100-52-7	1 - 5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:vapour), H332 Eye Irrit. 2, H319 STOT SE 3, H335
CINNAMIC ALCOHOL	(CAS-No.) 104-54-1	1 - 5	Skin Sens. 1B, H317
Full text of H- and EUH-statements: see sec	ction 16		
3.2. Mixtures			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measure First-aid measures general		rway and respiration. C	beck the vital functions. Vomiting:
	: Unconscious: maintain adequate air prevent asphyxia/aspiration pneum Prevent cooling by covering the vict strain. Keep watching the victim. Gi Call a POISON CENTER/doctor. Ca	onia. Respiratory arres tim (no warming up). K ive psychological aid. C all a poison center or a	t: artificial respiration or oxygen.
First-aid measures general	: Unconscious: maintain adequate air prevent asphyxia/aspiration pneum Prevent cooling by covering the vict strain. Keep watching the victim. Gi Call a POISON CENTER/doctor. Ca anything by mouth to an unconsciou	onia. Respiratory arres tim (no warming up). K ive psychological aid. C all a poison center or a us person. If you feel un ep comfortable for brea	t: artificial respiration or oxygen. eep the victim calm, avoid physical Cardiac arrest: perform resuscitation. doctor if you feel unwell. Never give nwell, seek medical advice (show the thing. Remove victim to fresh air.
4.1. Description of first aid measure First-aid measures general First-aid measures after inhalation First-aid measures after skin contact	 Unconscious: maintain adequate air prevent asphyxia/aspiration pneum Prevent cooling by covering the vict strain. Keep watching the victim. Gi Call a POISON CENTER/doctor. Ca anything by mouth to an unconsciou label where possible). Remove person to fresh air and keep 	onia. Respiratory arres tim (no warming up). K ive psychological aid. C all a poison center or a us person. If you feel up ep comfortable for brea esh air. Allow the victim r (15 minutes)/shower. itation or rash occurs: C R/doctor. Specific mea a plenty of water/ Wa nedical advice/attention	t: artificial respiration or oxygen. eep the victim calm, avoid physical Cardiac arrest: perform resuscitation. doctor if you feel unwell. Never give hwell, seek medical advice (show the thing. Remove victim to fresh air. to rest. Wash skin with plenty of water. Take Get medical advice/attention. asures (see supplemental first aid ash contaminated clothing before h. Specific treatment (see
First-aid measures general	 Unconscious: maintain adequate air prevent asphyxia/aspiration pneum Prevent cooling by covering the vict strain. Keep watching the victim. Gi Call a POISON CENTER/doctor. Ca anything by mouth to an unconsciou label where possible). Remove person to fresh air and kee Allow affected person to breathe free Wash immediately with lots of water off contaminated clothing. If skin irri Immediately call a POISON CENTE instruction on this label). Wash with reuse. If skin irritation occurs: Get m 	onia. Respiratory arres tim (no warming up). K ive psychological aid. C all a poison center or a us person. If you feel un ep comfortable for brea esh air. Allow the victim r (15 minutes)/shower. (attion or rash occurs: R/doctor. Specific mea plenty of water/ Wa nedical advice/attention this label). If skin irrita eral minutes. Do not ap atter for 15 minutes. Rer irritation persists: Get i	t: artificial respiration or oxygen. eep the victim calm, avoid physical ardiac arrest: perform resuscitation. doctor if you feel unwell. Never give nwell, seek medical advice (show the thing. Remove victim to fresh air. to rest. Wash skin with plenty of water. Take Get medical advice/attention. Isures (see supplemental first aid isch contaminated clothing before h. Specific treatment (see tion or rash occurs: ply (chemical) neutralizing agents. nove contact lenses, if present and
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact	 Unconscious: maintain adequate air prevent asphyxia/aspiration pneum Prevent cooling by covering the vict strain. Keep watching the victim. Gi Call a POISON CENTER/doctor. Ca anything by mouth to an unconsciou label where possible). Remove person to fresh air and kee Allow affected person to breathe free Wash immediately with lots of water off contaminated clothing. If skin irri Immediately call a POISON CENTER instruction on this label). Wash with reuse. If skin irritation occurs: Get m supplemental first aid instruction on example with plenty of water of supplemental first aid instruction of water off contaminated clothing. If skin irritation occurs is used to be a supplemental first and instruction on the supplemental first and instruction of water of supplemental first and instruction of water of a supplemental first and instruction of a supplemental first and instruction of water of a supplemental first and instruction of water of a supplemental first and instruction of the supplemental first and instructio	onia. Respiratory arres tim (no warming up). K ive psychological aid. C all a poison center or a us person. If you feel un ep comfortable for brea esh air. Allow the victim r (15 minutes)/shower. (attion or rash occurs: (attion or rash occurs: (aplenty of water/ Wa nedical advice/attention this label). If skin irrita eral minutes. Do not ap tater for 15 minutes. Rer irritation persists: Get of ce/attention. liately to hospital. Rinse g or a little water to drin	t: artificial respiration or oxygen. eep the victim calm, avoid physical Cardiac arrest: perform resuscitation. doctor if you feel unwell. Never give nwell, seek medical advice (show the thing. Remove victim to fresh air. to rest. Wash skin with plenty of water. Take Get medical advice/attention. Isures (see supplemental first aid ish contaminated clothing before h. Specific treatment (see tion or rash occurs: ply (chemical) neutralizing agents. nove contact lenses, if present and medical advice/attention. If eye e mouth with water, do not induce k. Call a poison center or a doctor if
First-aid measures general	 Unconscious: maintain adequate air prevent asphyxia/aspiration pneum Prevent cooling by covering the vict strain. Keep watching the victim. Gi Call a POISON CENTER/doctor. Ca anything by mouth to an unconsciou label where possible). Remove person to fresh air and kee Allow affected person to breathe free Wash immediately with lots of water off contaminated clothing. If skin irri Immediately call a POISON CENTER instruction on this label). Wash with reuse. If skin irritation occurs: Get m supplemental first aid instruction on Rinse cautiously with water for sever Rinse immediately with plenty of water asy to do. Continue rinsing. If eye irritation persists: Get medical advic Ingestion of large quantities: immediately call a doctor. Give nothing 	onia. Respiratory arres tim (no warming up). K ive psychological aid. C all a poison center or a us person. If you feel un ep comfortable for brea esh air. Allow the victim r (15 minutes)/shower. (attion or rash occurs: (attion or rash occurs: (aplenty of water/ Wa nedical advice/attention this label). If skin irrita eral minutes. Do not ap tater for 15 minutes. Rer irritation persists: Get of ce/attention. liately to hospital. Rinse g or a little water to drin	t: artificial respiration or oxygen. eep the victim calm, avoid physical Cardiac arrest: perform resuscitation. doctor if you feel unwell. Never give nwell, seek medical advice (show the thing. Remove victim to fresh air. to rest. Wash skin with plenty of water. Take Get medical advice/attention. Isures (see supplemental first aid ish contaminated clothing before h. Specific treatment (see tion or rash occurs: ply (chemical) neutralizing agents. nove contact lenses, if present and medical advice/attention. If eye e mouth with water, do not induce k. Call a poison center or a doctor if
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion 4.2. Most important symptoms and	 Unconscious: maintain adequate air prevent asphyxia/aspiration pneum Prevent cooling by covering the vict strain. Keep watching the victim. Gi Call a POISON CENTER/doctor. Ca anything by mouth to an unconsciou label where possible). Remove person to fresh air and kee Allow affected person to breathe free Wash immediately with lots of water off contaminated clothing. If skin irrit Immediately call a POISON CENTER instruction on this label). Wash with reuse. If skin irritation occurs: Get n supplemental first aid instruction on Rinse cautiously with water for sever Rinse immediately with plenty of water asy to do. Continue rinsing. If eye irritation persists: Get medical advice Ingestion of large quantities: immed you feel unwell. Rinse mouth. Do N 	onia. Respiratory arres tim (no warming up). K ive psychological aid. C all a poison center or a us person. If you feel un ep comfortable for brea rsh air. Allow the victim r (15 minutes)/shower. itation or rash occurs: C R/doctor. Specific mea plenty of water/ Wa nedical advice/attention this label). If skin irrita eral minutes. Do not ap ther for 15 minutes. Rer irritation persists: Get i ce/attention. liately to hospital. Rinse g or a little water to drin (OT induce vomiting. O	t: artificial respiration or oxygen. eep the victim calm, avoid physical Cardiac arrest: perform resuscitation. doctor if you feel unwell. Never give nwell, seek medical advice (show the thing. Remove victim to fresh air. to rest. Wash skin with plenty of water. Take Get medical advice/attention. Isures (see supplemental first aid ish contaminated clothing before h. Specific treatment (see tion or rash occurs: ply (chemical) neutralizing agents. nove contact lenses, if present and medical advice/attention. If eye e mouth with water, do not induce k. Call a poison center or a doctor if
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion 4.2. Most important symptoms and Symptoms/effects after inhalation	 Unconscious: maintain adequate air prevent asphyxia/aspiration pneum. Prevent cooling by covering the vict strain. Keep watching the victim. Gi Call a POISON CENTER/doctor. Ca anything by mouth to an unconsciou label where possible). Remove person to fresh air and kee Allow affected person to breathe free Wash immediately with lots of water off contaminated clothing. If skin irri Immediately call a POISON CENTE instruction on this label). Wash with reuse. If skin irritation occurs: Get m supplemental first aid instruction on Rinse cautiously with water for seve Rinse immediately with plenty of wa easy to do. Continue rinsing. If eye irritation persists: Get medical advice Ingestion of large quantities: immed vomiting, call a doctor. Give nothing you feel unwell. Rinse mouth. Do N effects, both acute and delayed May cause an allergic skin reaction. Tingling/irritation of the skin. Irritation 	onia. Respiratory arres tim (no warming up). K ive psychological aid. C all a poison center or a us person. If you feel up ep comfortable for brea rsh air. Allow the victim r (15 minutes)/shower. itation or rash occurs: C R/doctor. Specific mea plenty of water/ Wa nedical advice/attention this label). If skin irrita eral minutes. Do not ap ther for 15 minutes. Rer irritation persists: Get i ce/attention. liately to hospital. Rinse g or a little water to drin (OT induce vomiting. O	t: artificial respiration or oxygen. eep the victim calm, avoid physical Cardiac arrest: perform resuscitation. doctor if you feel unwell. Never give hwell, seek medical advice (show the thing. Remove victim to fresh air. to rest. Wash skin with plenty of water. Take Get medical advice/attention. sures (see supplemental first aid ash contaminated clothing before h. Specific treatment (see tion or rash occurs: ply (chemical) neutralizing agents. nove contact lenses, if present and medical advice/attention. If eye e mouth with water, do not induce k. Call a poison center or a doctor if btain emergency medical attention.
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact	 Unconscious: maintain adequate air prevent asphyxia/aspiration pneum. Prevent cooling by covering the vict strain. Keep watching the victim. Gi Call a POISON CENTER/doctor. Ca anything by mouth to an unconsciou label where possible). Remove person to fresh air and kee Allow affected person to breathe free Wash immediately with lots of water off contaminated clothing. If skin irri Immediately call a POISON CENTE instruction on this label). Wash with reuse. If skin irritation occurs: Get m supplemental first aid instruction on Rinse cautiously with water for seve Rinse immediately with plenty of wa easy to do. Continue rinsing. If eye irritation persists: Get medical advic Ingestion of large quantities: immed vomiting, call a doctor. Give nothing you feel unwell. Rinse mouth. Do N effects, both acute and delayed May cause an allergic skin reaction. Tingling/irritation of the skin. Irritatio to this material can result in absorption 	onia. Respiratory arres tim (no warming up). K ive psychological aid. C all a poison center or a us person. If you feel up ep comfortable for brea esh air. Allow the victim r (15 minutes)/shower. itation or rash occurs: C R/doctor. Specific mea o plenty of water/ Wa nedical advice/attention this label). If skin irrita eral minutes. Do not ap atter for 15 minutes. Rer irritation persists: Get u ce/attention. liately to hospital. Rinse g or a little water to drin OT induce vomiting. O	t: artificial respiration or oxygen. eep the victim calm, avoid physical Cardiac arrest: perform resuscitation. doctor if you feel unwell. Never give nwell, seek medical advice (show the thing. Remove victim to fresh air. to rest. Wash skin with plenty of water. Take Get medical advice/attention. sures (see supplemental first aid ash contaminated clothing before h. Specific treatment (see tion or rash occurs: ply (chemical) neutralizing agents. nove contact lenses, if present and medical advice/attention. If eye e mouth with water, do not induce k. Call a poison center or a doctor if btain emergency medical attention.

Indication of any immediate medical attention and special treatment needed 4.3.

Treat symptomatically.

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SECTION 5: Firefighting measures	
5.1. Extinguishing media	Water enroy Dry newder, Fear, Carbon diavide, Sand
	Water spray. Dry powder. Foam. Carbon dioxide. Sand.
Unsuitable extinguishing media	None. Do not use a heavy water stream.
5.2. Special hazards arising from the subs	
Fire hazard	No data available.
Explosion hazard	No data available.
Reactivity	On combustion, forms: carbon oxides (CO and CO2).
5.3. Advice for firefighters	
Precautionary measures fire	Keep upwind. Consider evacuation.
Firefighting instructions	Use water moderately and if possible collect or contain it. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	Heat/fire exposure: compressed air/oxygen apparatus. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measu	res
6.1. Personal precautions, protective equi	pment and emergency procedures
6.1.1. For non-emergency personnel	
0 71	Cloves Large spille/in appleand appear; and tight suit. Each shield Large spille/in appleand
Protective equipment	Gloves. Large spills/in enclosed spaces: gas-tight suit. Face shield. Large spills/in enclosed spaces: compressed air apparatus. Protective clothing.
Emergency procedures	Ventilate spillage area. No open flames, no sparks, and no smoking. Mark the danger area. Wash contaminated clothes. Large spills/in confined spaces: consider evacuation. Avoid contact with skin, eyes and clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Evacuate unnecessary personnel.
6.1.2. For emergency responders	
	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection.
Emergency procedures	Ventilate area.
6.2. Environmental precautions	
•	sewers and public waters. Notify authorities if liquid enters sewers or public waters.
6.3. Methods and material for containment	and cleaning up
	Dam up the liquid spill. Stop leak without risks if possible. Contain leaking substance, pump
	over in suitable containers.
Methods for cleaning up	Large spills: scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. Damaged/cooled tanks must be emptied. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
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. See Hea	ding 8. Exposure controls and personal protection.
SECTION 7: Handling and storage	

SECTION 7: Handling and	storage		
7.1. Precautions for safe h	andling		
Precautions for safe handling	with local regulations for dis ignition - No smoking. Rem atmosphere. Carry out ope protection. Avoid breathing on clothing. Wear personal mild soap and water before	he work station. Do not discharge the waste into the drain. Comply sposal. Keep container tight closed. Keep away from sources of ove contaminated clothing. Measure the concentration in the rations in the open/under local exhaust/ventilation or with respiratory dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or protective equipment. Wash hands and other exposed areas with eating, drinking or smoking and when leaving work. Provide good to prevent formation of vapour.	,
Hygiene measures	clothing before reuse. Do n	should not be allowed out of the workplace. Wash contaminated ot eat, drink or smoke when using this product. Always wash hands Wash hands thoroughly after handling.	
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7.2. Conditions for safe storage, in	cluding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Storage area	: Meet the legal requirements. Store in a dark area. Provide for a tub to collect spills. Keep out of direct sunlight.
Special rules on packaging	: Clean. Hermetical. Meet the legal requirements. opaque.
Packaging materials	: No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Personal protective equipment	: Avoid all unnecessary exposure.
Materials for protective clothing	: No data available.
Hand protection	: Gloves. Wear protective gloves/protective clothing/eye protection protective gloves.
Eye protection	: Face shield. Safety glasses. Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. In case of inadequate ventilation wear respiratory protection. Gas mask with filter type. Wear appropriate mask.
Environmental exposure controls	: Avoid release to the environment.
Other information	: Do not eat, drink or smoke when using this product. Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical an	d chemical properties		
Physical state	: Liquid		
Appearance	: Liquid.		
Colour	: Yellow-brown		
Odour	: characteristic		
Odour threshold	: No data available		
рН	: No data available		
Melting point	: Not applicable		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: 194 °F		
Relative evaporation rate (butylacetate=1)	: No data available		
Flammability (solid, gas)	: No data available		
Explosive limits	: No data available		
Explosive properties	: No data available		
Oxidising properties	: No data available		
Vapour pressure	: 0.1 mm Hg 20°C		
Relative density	: 1.054		
Relative vapour density at 20 °C	: No data available		
Solubility	: Soluble in oil. Poorly soluble in water. Water: Poorly soluble in water		
Log Pow	: No data available		
Auto-ignition temperature	: No data available		
09/24/2021	EN (English)	SDS ID: 1X-486-001-ZZ	4/

Cassia oil (Cinnamomum cassia) Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

according to Federal Register / Vol. 77, No. 58 / Mon	nday, March 26, 2012 / Rules and Regulations
Decomposition temperature	: No data available
Viscosity	: < 20.5 mm²/s
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
Other properties	: Gas/vapour heavier than air at 20'C.
SECTION 10: Stability and reactive	/ity
10.1. Reactivity	
On combustion, forms: carbon oxides (CO a	nd CO2).
10.2. Chemical stability	
Stable under normal conditions. Not establish	hed.
10.3. Possibility of hazardous reaction	ns
No dangerous reactions known under norma	al conditions of use. Not established.
10.4. Conditions to avoid	
None under recommended storage and hand	dling conditions (see section 7). Direct sunlight. Extremely high or low temperatures.
10.5. Incompatible materials	
Strong acids. Strong bases.	
10.6. Hazardous decomposition produ	ucts
Under normal conditions of storage and use,	hazardous decomposition products should not be produced. fume. Carbon monoxide. Carbon dioxide.
SECTION 11: Toxicological inform	nation
11.1. Information on toxicological effe	ects
Acute toxicity	: Not classified
Cassia oil (Cinnamomum cassia) (8007-	-80-5)
ATE US (oral)	500 mg/kg bodyweight
ATE US (dermal)	300 mg/kg bodyweight
CINNAMIC ALDEHYDE (104-55-2)	
ATE US (dermal)	1100 mg/kg bodyweight
Benzaldehyde (100-52-7)	
ATE US (oral)	500 mg/kg bodyweight
ATE US (vapours)	11 mg/l/4h

00/24/2021	EN (English) SDS ID: 1X_486-001-77 5/
Symptoms/effects after skin contact	: Tingling/irritation of the skin. Irritation. May cause an allergic skin reaction. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful
Symptoms/effects after inhalation	: May cause an allergic skin reaction.
symptoms	
Potential adverse human health effects and	: Harmful in contact with skin.
Aspiration hazard	: Not classified
STOT-repeated exposure	: Not classified
STOT-single exposure	: Not classified
	Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Carcinogenicity	: Not classified
	Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Serious eye damage/irritation	: Causes serious eye irritation.
Skin corrosion/irritation	: Causes skin irritation.
ATE US (vapours)	11 mg/l/4h
ATE US (oral)	500 mg/kg bodyweight
Benzaldehyde (100-52-7)	
ATE US (dermal)	1100 mg/kg bodyweight
CINNAMIC ALDEHYDE (104-55-2)	
ATE US (dermal)	300 mg/kg bodyweight
ATE US (oral)	500 mg/kg bodyweight
Cassia oil (Cinnamomum cassia) (8007-80	D-5)

Cassia oil (Cinnamomumⁱⁿ Cassia)^{in. Causes skin irritation.}

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Symptoms/effects after eye contact	: Irritation of the eye tissue. Eye irritation. Causes serious eye irritation.
Chronic symptoms	: Skin rash/inflammation.
ECTION 12: Ecological informa	tion
2.1. Toxicity	
cology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Ecology - water	: No data available.
CINNAMIC ALDEHYDE (104-55-2)	
LC50 fish 1	> 10 mg/l (96 h; Pisces)
CINNAMIC ALCOHOL (104-54-1)	
LC50 fish 1	> 10 mg/l (96 h; Pisces; Estimated value)
EC50 Daphnia 1	> 10 mg/l (48 h; Daphnia magna; Estimated value)
2.2. Persistence and degradability	
Cassia oil (Cinnamomum cassia) (8007	7-80-5)
Persistence and degradability	No data available. Not established.
CINNAMIC ALDEHYDE (104-55-2)	
Persistence and degradability	Readily biodegradable in water. Not established.
Benzaldehyde (100-52-7)	
Persistence and degradability	Not established.
CINNAMIC ALCOHOL (104-54-1)	
Persistence and degradability	Readily biodegradable in water. Not established.
2.3. Bioaccumulative potential	
Cassia oil (Cinnamomum cassia) (8007	7-80-5)
Bioaccumulative potential	No data available. Not established.
CINNAMIC ALDEHYDE (104-55-2)	
Log Pow	1.9 - 2.22
Bioaccumulative potential	Low bioaccumulation potential. Not established.
Benzaldehyde (100-52-7)	
Bioaccumulative potential	Not established.

Bioaccumulative potential	Not established.	
CINNAMIC ALCOHOL (104-54-1)		
Log Pow	1.95	
Bioaccumulative potential	Not established. Low bioaccumulation potential.	

12.4. Mobility in soil

No additional information available

Other adverse effects 12.5.

Other information

: Avoid release to the environment.

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Hazardous waste.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	

Department of Transportation (DOT) In accordance with DOT

Transport document description

: UN2810 Toxic, liquids, organic, n.o.s. (Cassia Oil), 6.1, III

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UN-No.(DOT)	: UN2810
Proper Shipping Name (DOT)	: Toxic, liquids, organic, n.o.s.
	Cassia Oil
Class (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Hazard labels (DOT)	: 6.1 - Poison
Packing group (DOT)	: III - Minor Danger
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)	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T7 - 4 178.274(d)(2) Normal
	provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, 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)	: 153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Emergency Response Guide (ERG) Number	: 153
Other information	: No supplementary information available.
Transportation of Dangerous Goods No additional information available	
Transport by sea	
UN-No. (IMDG)	: 2810
Proper Shipping Name (IMDG)	: TOXIC LIQUID, ORGANIC, N.O.S.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 2810
Proper Shipping Name (IATA)	: Toxic liquid, organic, n.o.s.
	: 1 oxic liquid, organic, n.o.s. : 6.1 - Toxic Substances

15.1. US Federal regulations

Cassia oil (Cinnamomum cassia) (8007-80-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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CINNAMIC ALDEHYDE (104-55-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Benzaldehyde (100-52-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
CINNAMIC ACID (621-82-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
CINNAMIC ALCOHOL (104-54-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Coumarin (91-64-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2. International regulations

CANADA

CINNAMIC ALDEHYDE (104-55-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

Benzaldehyde (100-52-7)

U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information	
Revision date	: 08/19/2020
Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: None.

Full text of H-statements:

H227	Combustible liquid
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

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Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: B
	B - Safety glasses, Gloves

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.