

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 01/09/2019 Revision date: 07/21/2020 Version: 2.1

SECTION 1: Identification				
1.1. Identification				
Product form	: Mixture			
Product name	: Lemongrass			
1.2. Recommended use and restriction Use of the substance/mixture	: Perfume ingredient. Not for use in food or feed.			
1.3.SupplierAAA Candle Supplies, Inc.				
10460 Brockwood Rd				
Dallas, Texas 75238				
T (214) 342-9898 www.AAACandleSupply.com				
1.4. Emergency telephone number				
No additional information available				
SECTION 2: Hazard(s) identification				
2.1. Classification of the substance or GHS US classification	mixture			
Flammable liquids Category 3	H226 Flammable liquid and vapor.			
Skin corrosion/irritation Category 2	H315 Causes skin irritation			
Serious eye damage/eye irritation Category 1 Skin sensitization, Category 1	H318 Causes serious eye damage H317 May cause an allergic skin reaction			
Reproductive toxicity Category 2	H317 May cause an allergic skin reaction H361 Suspected of damaging fertility or the unborn child			
Aspiration hazard Category 1	H304 May be fatal if swallowed and enters airways			
Full text of H statements : see section 16				
2.2. GHS Label elements, including pre	cautionary statements			
GHS US labeling				
Hazard pictograms (GHS US)				
Signal word (GHS US)	: Danger			
Hazard statements (GHS US)	: Flammable liquid and vapor.			
	May be fatal if swallowed and enters airways Causes skin irritation			
	May cause an allergic skin reaction			
	Causes serious eye damage			
	Suspected of damaging fertility or the unborn child			
Precautionary statements (GHS US)	: Obtain special instructions before use.			
	Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No			
	smoking.			
	Keep container tightly closed.			
	Ground and bond container and receiving equipment			
	Use explosion-proof equipment Use only non-sparking tools.			
	Take precautionary measures against static discharge.			
	Avoid breathing mist, vapors and 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 and face protection			
	If swallowed: Immediately call a poison center or doctor.			
	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or			
	shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present			
	and easy to do. Continue rinsing.			
	If exposed or concerned: Get medical attention.			
	Do NOT induce vomiting.			
	If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it 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 and container in accordance with applicable regulations.			
	Dispose of contents and container in accordance with applicable regulations.			

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2.3. Other hazards which do not result in classification

#### No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

# Not applicable

#### **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

#### Not applicable

#### 3.2. **Mixtures**

Name	Product identifier	%*	GHS US classification
Orange terpenes	(CAS-No.) 8028-48-6	< 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Lemongrass Oil, Rectified	(CAS-No.) 8007-02-1	< 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
linalyl acetate	(CAS-No.) 115-95-7	< 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317 STOT SE 3, H335 Aquatic Acute 3, H402
trans-geranyl acetate	(CAS-No.) 105-87-3	< 5	Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411
linalol	(CAS-No.) 78-70-6	< 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317 STOT SE 3, H336 Aquatic Acute 3, H402
Tetramethyl acetyloctahydronapthalenes	(CAS-No.) 54464-57-2	< 5	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 2, H401 Aquatic Chronic 1, H410
(+/-)-beta-citronellol	(CAS-No.) 106-22-9	< 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304
alpha-methyl-1,3-benzodioxole-5-propanal	(CAS-No.) 1205-17-0	< 5	Skin Sens. 1B, H317 Repr. 2, H361 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
citral, isomer mixture	(CAS-No.) 5392-40-5	< 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317
4-(4-hydroxy-4-methylpentyl)-3-cyclohexene-1- carboxaldehyde	(CAS-No.) 31906-04-4	< 5	Skin Sens. 1A, H317 Aquatic Acute 3, H402
Pelargonium graveolens flower oil	(CAS-No.) 8000-46-2	< 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 3, H402
trans-anethol	(CAS-No.) 4180-23-8	< 5	Skin Sens. 1, H317 Aquatic Acute 2, H401

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

**SECTION 4: First-aid measures Description of first aid measures** 

4.1. First-aid measures general

: Call a physician immediately.

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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 or shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical 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. Call a physician immediately.
First-aid measures after ingestion	: Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and ef	
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact Symptoms/effects after ingestion	: Serious damage to eyes. : Risk of lung edema.
4.3. Immediate medical attention and	5
Treat symptomatically.	special treatment, il necessary
SECTION 5: Fire-fighting measure	s
5.1. Suitable (and unsuitable) extingu	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the Fire hazard	: Flammable liquid and vapor.
Reactivity	: Flammable liquid and vapor.
5.3. Special protective equipment and	d precautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release me	easures
	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 mist, vapors and 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 contain	
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage 1. Precautions for safe handling	
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 and 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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid breathing mist, vapors and 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, inclu Technical measures	uding any incompatibilities : Ground and 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/pe	rsonal protection
3.1. Control parameters	
citral, isomer mixture (5392-40-5)	
ACGIH ACGIH TW/	A (ppm) 5 ppm (Citral; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)
8.2. Appropriate engineering controls	S S
Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
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2 Individual protection manageres/Pail	
8.3. Individual protection measures/Per Hand protection	: Protective gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection.
<b>SECTION 9: Physical and chemical</b>	properties
9.1. Information on basic physical and	
Physical state	: Light vellew to vellew
Color Odor	: Light yellow to yellow
Odor threshold	: Characteristic - Lemongrass
	: No data available : No data available
pH Malting point	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	$\sim$ No data available $\sim$ > 115 °F
Flash point	: No data available
Relative evaporation rate (butyl acetate=1) Flammability (solid, gas)	
Vapor pressure	: Not applicable. : No data available
	: No data available : No data available
Relative vapor density at 20 °C	No data available
Specific gravity Relative density	: No data available
Solubility	: Insoluble in water. Soluble in oil. Soluble in organic solvents.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	$\sim 100 \text{ mm}^2/\text{s}$
Viscosity, dynamic	: < 100 cP
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
No additional information available	
<b>SECTION 10: Stability and reactivity</b>	y l
10.1. Reactivity	
Flammable liquid and vapor.	
<b>10.2.</b> Chemical stability Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
No dangerous reactions known under normal co	onditions of use.
<b>10.4.</b> Conditions to avoid Avoid contact with hot surfaces. Heat. No flame	no sporke. Eliminate all sources of ignition
10.5. Incompatible materials	s, no sparks. L'infinitate all sources of ignition.
No additional information available	
10.6. Hazardous decomposition product	
	azardous decomposition products should not be produced.
SECTION 11: Toxicological informa	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
trans-anethol (4180-23-8)	
LD50 oral rat LD50 dermal rabbit	2090 mg/kg (Rat)
ATE US (oral)	<ul><li>&gt; 5000 mg/kg (Rabbit)</li><li>2090 mg/kg body weight</li></ul>
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citral, isomer mixture (5392-40-5)	
LD50 oral rat	4960 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	2250 mg/kg (Rabbit)
ATE US (oral)	4960 mg/kg body weight
ATE US (dermal)	2250 mg/kg body weight
(+/-)-beta-citronellol (106-22-9)	
LD50 oral rat	3450 mg/kg (Rat; Inconclusive, insufficient data)
LD50 dermal rabbit	2650 mg/kg (Rabbit; Inconclusive, insufficient data)
	3450 mg/kg body weight
ATE US (oral) ATE US (dermal)	2650 mg/kg body weight
trans-geranyl acetate (105-87-3)	
LD50 oral rat	6300 mg/kg (Rat)
ATE US (oral)	6300 mg/kg body weight
alpha-methyl-1,3-benzodioxole-5-propanal	(1205-17-0)
LD50 oral rat	3561 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
ATE US (oral)	3561 mg/kg body weight
linalol (78-70-6)	
LD50 oral rat	2790 mg/kg (Rat)
LD50 dermal rat	5610 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	2790 mg/kg body weight
ATE US (dermal)	5610 mg/kg body weight
linalyl acetate (115-95-7)	
LD50 oral rat	13934 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	13934 mg/kg body weight
4-(4-hydroxy-4-methylpentyl)-3-cyclohexen	
LD50 oral rat	3218 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	3218 mg/kg body weight
Lemongrass Oil, Rectified (8007-02-1)	
ATE US (dermal)	3103 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified
Pelargonium graveolens flower oil (8000-46	5-2)
STOT-single exposure	May cause drowsiness or dizziness.
trans-geranyl acetate (105-87-3)	
STOT-single exposure	May cause respiratory irritation.
linalol (78-70-6)	
STOT-single exposure	May cause drowsiness or dizziness.
linalyl acetate (115-95-7)	
STOT-single exposure	May cause respiratory irritation.
Orange terpenes (8028-48-6)	
STOT-single exposure	May cause respiratory irritation.

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Lemongrass Oil, Rectified (8007-02-1)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.
Viscosity, kinematic	: < 100 mm²/s
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Risk of lung edema.
SECTION 12: Ecological information	
12.1. Toxicity Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
citral, isomer mixture (5392-40-5)	
LC50 fish 1	4.6 - 10 mg/l (LC50; 96 h)
EC50 Daphnia 1	7 mg/l (EC50; 48 h)
Threshold limit algae 1	16 mg/l (EC50; 72 h)
(+/-)-beta-citronellol (106-22-9)	
LC50 fish 1	> mg/l >10 <22,LC50; 96 h
EC50 Daphnia 1	17 mg/l (EC50; 48 h)
Threshold limit algae 1	2.4 mg/l (EC50; 72 h)
linalol (78-70-6)	
EC50 Daphnia 1	59 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilization Test; 48 h; Daphnia magna)
EC50 other aquatic organisms 1	>= 100 mg/l (3 h; Activated sludge)
LC50 fish 2	27.8 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Salmo gairdneri)
Threshold limit algae 1	88.3 mg/l (EC50; 96 h)
linalyl acetate (115-95-7)	·
LC50 fish 1	11 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Cyprinus carpio)
EC50 Daphnia 1	15 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilization Test; 48 h; Daphnia magna)
Threshold limit algae 1	16 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Scenedesmus subspicatus)
12.2. Persistence and degradability	
trans-anethol (4180-23-8)	
Persistence and degradability	Ozonation in the air. Photodegradation in the air.
citral, isomer mixture (5392-40-5)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Ozonation in the air. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0.556 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.99 g O <sub>2</sub> /g substance
ThOD	2.84 g O <sub>2</sub> /g substance
(+/-)-beta-citronellol (106-22-9)	
Persistence and degradability	Readily biodegradable in water.
Chemical oxygen demand (COD)	2.05 g O <sub>2</sub> /g substance
ThOD	2.961 g O <sub>2</sub> /g substance
trans-geranyl acetate (105-87-3)	
Persistence and degradability	Biodegradability in water: no data available. Forming sediments in water.
ThOD	2.6 g O <sub>2</sub> /g substance
alpha-methyl-1,3-benzodioxole-5-propanal (1	205-17-0)
Persistence and degradability	Biodegradability in water: no data available.
linalol (78-70-6)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.531 g $O_2/g$ substance
Chemical oxygen demand (COD)	2.808 g O <sub>2</sub> /g substance
Chomical oxygen demand (COD)	

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linalyl acetate (115-95-7)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Adsorbs into the soil. Ozonation in the air. Photodegradation in the air.
4-(4-hydroxy-4-methylpentyl)-3-cyclohex	
Persistence and degradability	Readily biodegradable in water.
<u> </u>	
Orange terpenes (8028-48-6)	D'a de sera de la 1960 de constante en actual de la constituidad.
Persistence and degradability	Biodegradability in water: no data available.
2.3. Bioaccumulative potential	
citral, isomer mixture (5392-40-5)	
BCF other aquatic organisms 1	250 (BCF)
Log Pow	2.76 - 3.45 (Estimated value)
Bioaccumulative potential	Bioaccumable.
(+/-)-beta-citronellol (106-22-9)	
Log Pow	3.41 - 3.91
trans-geranyl acetate (105-87-3)	
BCF other aquatic organisms 1	1500 (BCF)
Log Pow	4.04 (Experimental value)
alpha-methyl-1,3-benzodioxole-5-propar	nal (1205-17-0)
Log Pow	2.4 (OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
linalol (78-70-6)	
Log Pow	2.84 - 3.145
Bioaccumulative potential	Bioaccumable.
•	Dioaccumable.
linalyl acetate (115-95-7)	
Log Pow	3.93 (Experimental value)
4-(4-hydroxy-4-methylpentyl)-3-cyclohex	kene-1-carboxaldehyde (31906-04-4)
Bioaccumulative potential	No bioaccumulation data available.
Orange terpenes (8028-48-6)	
Bioaccumulative potential	No bioaccumulation data available.
2.4. Mobility in soil	
lo additional information available	
2.5. Other adverse effects lo additional information available	
ECTION 13: Disposal considerat	tions
3.1. Disposal methods	
Vaste treatment methods	: Dispose of contents and container in accordance with licensed collector's sorting instructions.
dditional information	: Flammable vapors may accumulate in the container.
ECTION 14: Transport information	
epartment of Transportation (DOT)	
	· ID8000 Consumer commodity
ransport document description	: ID8000 Consumer commodity, 9
N-No.(DOT)	: ID8000
roper Shipping Name (DOT)	Consumer commodity
lass (DOT)	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
azard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)
other information	: No supplementary information available.
ransport by sea lot regulated	
ir transport ransport document description (IATA)	: UN 8000 Consumer commodity, 9
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UN-No. (IATA)	
Proper Shipping Name (IATA)	
Class (IATA)	

: 8000 : Consumer commodity

: 9 - Miscellaneous Dangerous Goods

#### **SECTION 15: Regulatory information**

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

#### 15.2. International 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**

Revision date

: 07/21/2020

#### Full text of H-phrases:

H226 Flammable liquid and vapor. H227 Combustible liquid H304 May be fatal if swallowed and enters airways H315 Causes skin irritation H317 May cause an allergic skin reaction H318 Causes serious eye damage H319 Causes serious eye irritation H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H361 Suspected of damaging fertility or the unborn child H400 Very toxic to aquatic life H401 Toxic to aquatic life H402 Harmful to aquatic life Very toxic to aquatic life with long lasting effects H410 H411 Toxic to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.