



Lemongrass & Ginger #17951F

Safety Data Sheet

This Safety Data Sheet has been prepared in accordance with the New Zealand Hazardous Substances (Safety Data Sheets) Notice 2017 under the Hazardous Substances and New Organisms Act (1996)

Date of issue: 10/02/2020

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Supersedes: V 2.0

Version: 3.0

SECTION 1: Identification of the hazardous chemical and of the supplier

1.1 Product identifier

Product name : Lemongrass & Ginger #17951F
Product form : Mixture
Type of product : Perfumes, fragrances
Product code : 17951F

1.2 Other means of identification

No additional information available

1.3 Relevant identified uses of the substance or mixture and uses advised against

No additional information available

1.4 Supplier's details

CANDLE CREATIONS
34B WILLIAM PICKERING DRIVE,
ROSEDALE, AUCKLAND, 0632,
NEW ZEALAND
T 09-448-1920
info@candlecreations.co.nz – www.candlecreations.co.nz

1.5 Emergency phone number

Emergency number : NZ NATIONAL POISONS CENTRE – 0800 POISON (0800-764-766)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

9.3B	Ecotoxicity to terrestrial vertebrates B
3.1D	Flammable liquids, Category 4
6.1 D	Acute toxicity (oral), Category 4
6.3 A	Skin corrosion/irritation, Category 2
6.4 A	Serious eye damage/eye irritation, Category 2
6.5 B	Skin sensitisation, Category 1
9.1D	Hazardous to the aquatic environment — Acute Hazard, Category 2
9.1B	Hazardous to the aquatic environment — Chronic Hazard, Category 2

2.2 Label elements

GHS NZ labelling

Hazard pictograms (GHS NZ)



Signal word (GHS NZ)

: Warning

Contains

: Hexyl cinnamic aldehyde (9.2969 – 39.2869 %) ; Benzyl benzoate (10 – 40 %) ; Linalyl acetate (3.1 – 13.1 %) ; Lemon oil (2.635 – 11.135 %) ; Linalool (1.7236 – 7.2836 %) ; Iso E Super (0.93 – 3.93 %) ; Elemi oil (0.1 – 1 %) ; Lime oil distilled (0.1 – 1 %) ; Triplal (Vertocitral) (0.1 – 1 %) ; Citral pure (0.1 – 1 %) ; Damascone alpha- (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one (24720-09-0) (0.1 – 1 %)

Hazard statements (GHS NZ)

: H227 - Combustible liquid
H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H401 - Toxic to aquatic life
H411 - Toxic to aquatic life with long lasting effects.
H432 - Toxic to terrestrial vertebrates

Prevention

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264 - Wash hands thoroughly after handling
P270 - Do not eat, drink or smoke when using this product.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.

Response

: P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

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2.3. Other hazards not contributing to the classification

No additional information available

SECTION 3: Composition and information of the ingredients of the hazardous chemical

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to GHS NZ
Benzyl benzoate	(CAS-No.) 120-51-4	10 – 40	9.3B: Ecotoxicity to terrestrial vertebrates B, H432 Flam. Liq. Not classified 6.1D: Acute Tox. 4 (Oral), H302 6.1E: Acute Tox. 5 (Dermal), H313 9.1D: Aquatic Acute 2, H401 9.1B: Aquatic Chronic 2, H411
Hexyl cinnamic aldehyde	(CAS-No.) 101-86-0	9.2969 – 39.2869	Flam. Liq. Not classified 6.1E: Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Inhalation:dust,mist) 6.5B: Skin Sens. 1, H317 9.1B: Aquatic Chronic 2, H411
Linalyl acetate	(CAS-No.) 115-95-7	3.1 – 13.1	3.1D: Flam. Liq. 4, H227 Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) 6.3A: Skin Irrit. 2, H315 6.4A: Eye Irrit. 2, H319 6.5B: Skin Sens. 1, H317 9.1D: Aquatic Acute 3, H402
Lemon oil	(CAS-No.) 8008-56-8	2.635 – 11.135	3.1C: Flam. Liq. 3, H226 6.1E: Acute Tox. 5 (Oral), H303 6.3A: Skin Irrit. 2, H315 6.5B: Skin Sens. 1, H317 9.1A: Aquatic Chronic 1, H410
Linalool	(CAS-No.) 78-70-6	1.7236 – 7.2836	9.3C: Ecotoxicity to terrestrial vertebrates C, H433 3.1D: Flam. Liq. 4, H227 6.1E: Acute Tox. 5 (Oral), H303 6.1D: Acute Tox. 4 (Dermal), H312 6.3A: Skin Irrit. 2, H315 6.4A: Eye Irrit. 2, H319 6.5B: Skin Sens. 1, H317 9.1D: Aquatic Acute 3, H402
Hexamethylindanopyran	(CAS-No.) 1222-05-5	1.55 – 6.55	Flam. Liq. Not classified 9.1A: Aquatic Acute 1, H400 9.1A: Aquatic Chronic 1, H410
Hedione	(CAS-No.) 24851-98-7	0.93 – 3.93	Flam. Liq. Not classified Acute Tox. Not classified (Oral) 9.1D: Aquatic Acute 3, H402
Iso E Super	(CAS-No.) 54464-57-2	0.93 – 3.93	Flam. Liq. Not classified 6.5B: Skin Sens. 1, H317 9.1B: Aquatic Chronic 2, H411
Styralyl acetate	(CAS-No.) 93-92-5	0.31 – 1.31	3.1D: Flam. Liq. 4, H227 Acute Tox. Not classified (Oral) 9.1D: Aquatic Acute 3, H402
Guaiyl acetate	(CAS-No.) 134-28-1	0.1 – 1	6.3A: Skin Irrit. 2, H315 6.5B: Skin Sens. 1, H317 9.1A: Aquatic Acute 1, H400 9.1A: Aquatic Chronic 1, H410
Aldehyde C-10	(CAS-No.) 112-31-2	0.1 – 1	3.1D: Flam. Liq. 4, H227 6.1E: Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal) 6.4A: Eye Irrit. 2, H319 9.1D: Aquatic Acute 2, H401 9.1C: Aquatic Chronic 3, H412
Phenylmethanol	(CAS-No.) 100-51-6	0.1 – 1	9.3C: Ecotoxicity to terrestrial vertebrates C, H433 Flam. Liq. Not classified 6.1D: Acute Tox. 4 (Oral), H302 6.1D: Acute Tox. 4 (Inhalation:gas), H332 9.1D: Aquatic Acute 2, H401
Citral pure	(CAS-No.) 5392-40-5	0.1 – 1	3.1D: Flam. Liq. 4, H227 6.1E: Acute Tox. 5 (Oral), H303 6.1E: Acute Tox. 5 (Dermal), H313 6.3A: Skin Irrit. 2, H315 6.4A: Eye Irrit. 2, H319 6.5B: Skin Sens. 1, H317 9.1D: Aquatic Acute 2, H401

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Name	Product identifier	%	Classification according to GHS NZ
Citronellol Pure	(CAS-No.) 106-22-9	0.1 – 1	Flam. Liq. Not classified 6.1E: Acute Tox. 5 (Oral), H303 6.1E: Acute Tox. 5 (Dermal), H313 6.3A: Skin Irrit. 2, H315 6.4A: Eye Irrit. 2, H319 6.5B: Skin Sens. 1, H317
Citronellyl acetate (mixed Isomers)	(CAS-No.) 150-84-5	0.1 – 1	Flam. Liq. Not classified Acute Tox. Not classified (Oral) 6.3A: Skin Irrit. 2, H315 6.4A: Eye Irrit. 2, H319 9.1D: Aquatic Acute 2, H401 9.1B: Aquatic Chronic 2, H411
Damascone alpha- (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one (24720-09-0)	(CAS-No.) 24720-09-0	0.1 – 1	Flam. Liq. Not classified 6.1D: Acute Tox. 4 (Oral), H302 6.5B: Skin Sens. 1, H317
Dimethyl octanol	(CAS-No.) 106-21-8	0.1 – 1	Flam. Liq. Not classified Acute Tox. Not classified (Oral) 6.1E: Acute Tox. 5 (Dermal), H313 6.3A: Skin Irrit. 2, H315 6.4A: Eye Irrit. 2, H319 9.1B: Aquatic Chronic 2, H411
Dimethyl sulfide	(CAS-No.) 75-18-3	0.1 – 1	9.3C: Ecotoxicity to terrestrial vertebrates C, H433 3.1B: Flam. Liq. 2, H225 6.1D: Acute Tox. 4 (Oral), H302 Acute Tox. Not classified (Dermal) 6.4A: Eye Irrit. 2, H319 9.1D: Aquatic Acute 3, H402
Dimethylbenzyl carbinyol butyrate(DMBCB)	(CAS-No.) 10094-34-5	0.1 – 1	Flam. Liq. Not classified Acute Tox. Not classified (Oral) 6.3A: Skin Irrit. 2, H315 9.1B: Aquatic Chronic 2, H411
Diphenyl oxide	(CAS-No.) 101-84-8	0.1 – 1	6.1E: Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal) 6.1D: Acute Tox. 4 (Inhalation:dust,mist), H332 6.4A: Eye Irrit. 2, H319 9.1A: Aquatic Acute 1, H400 9.1A: Aquatic Chronic 1, H410
Elemi oil	(CAS-No.) 8023-89-0	0.1 – 1	3.1C: Flam. Liq. 3, H226 6.1E: Acute Tox. 5 (Oral), H303 6.3A: Skin Irrit. 2, H315 6.5B: Skin Sens. 1, H317 6.1E: Asp. Tox. 1, H304 9.1A: Aquatic Chronic 1, H410
Geranium oil Egyptian	(CAS-No.) 8000-46-2	0.1 – 1	3.1D: Flam. Liq. 4, H227 6.3A: Skin Irrit. 2, H315 8.3A: Eye Dam. 1, H318 6.5B: Skin Sens. 1, H317 9.1B: Aquatic Chronic 2, H411
Geranyl acetate	(CAS-No.) 105-87-3	0.1 – 1	Flam. Liq. Not classified Acute Tox. Not classified (Oral) 6.3A: Skin Irrit. 2, H315 6.5B: Skin Sens. 1, H317 9.1C: Aquatic Chronic 3, H412
Geranyl formate	(CAS-No.) 105-86-2	0.1 – 1	Flam. Liq. Not classified Acute Tox. Not classified (Oral) 6.5B: Skin Sens. 1, H317 9.1A: Aquatic Acute 1, H400 9.1B: Aquatic Chronic 2, H411
Geranyl isobutyrate	(CAS-No.) 2345-26-8	0.1 – 1	Flam. Liq. Not classified Acute Tox. Not classified (Oral)
Isomenthone	(CAS-No.) 491-07-6	0.1 – 1	3.1D: Flam. Liq. 4, H227 6.3A: Skin Irrit. 2, H315 6.5B: Skin Sens. 1, H317
Leaf alcohol	(CAS-No.) 928-96-1	0.1 – 1	3.1C: Flam. Liq. 3, H226 6.1E: Acute Tox. 5 (Oral), H303 6.1E: Acute Tox. 5 (Dermal), H313 6.4A: Eye Irrit. 2, H319 Aquatic Acute Not classified
Lime oil distilled	(CAS-No.) 8008-26-2	0.1 – 1	3.1C: Flam. Liq. 3, H226 Acute Tox. Not classified (Oral) 6.3A: Skin Irrit. 2, H315 6.5B: Skin Sens. 1, H317 6.1E: Asp. Tox. 1, H304 9.1C: Aquatic Chronic 3, H412
Rose oxide	(CAS-No.) 16409-43-1	0.1 – 1	3.1D: Flam. Liq. 4, H227 6.1E: Acute Tox. 5 (Oral), H303 6.3A: Skin Irrit. 2, H315 6.4A: Eye Irrit. 2, H319 6.8B: Repr. 2, H361

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Name	Product identifier	%	Classification according to GHS NZ
Triplal (Vertocitral)	(CAS-No.) 68039-49-6	0.1 – 1	3.1D: Flam. Liq. 4, H227 6.3A: Skin Irrit. 2, H315 6.4A: Eye Irrit. 2, H319 6.5B: Skin Sens. 1, H317 9.1C: Aquatic Chronic 3, H412

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a poison center or a doctor if you feel unwell. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). If skin irritation or rash occurs: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell. Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: May cause an allergic skin reaction.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction. Causes skin irritation.
Symptoms/effects after eye contact	: Eye irritation. Causes serious eye irritation.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

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

Other medical advice or treatment	: Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Combustible liquid.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: 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	: 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.
EAC code	: •3Z -•3Z

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
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6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Evacuate unnecessary personnel.
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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". Equip cleanup crew with proper protection.
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Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

SECTION 7: Handling and storage, including how the chemical may be safely used

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. No open flames. No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Always wash hands after handling the product. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep in fireproof place. Keep only in the original container in a cool, well ventilated place away from : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Heat sources. Sources of ignition. Direct sunlight.

Storage temperature : 25 °C

Storage area : Store in a well-ventilated place. Store away from heat.

Special rules on packaging : Store in a closed container.

Packaging materials : Do not store in corrodable metal.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Phenylmethanol (100-51-6)	
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	22 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Occupational exposure limit value (ppm)	5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Chemical category	Skin notation
Citral pure (5392-40-5)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	5 ppm (inhalable fraction and vapor)
ACGIH chemical category	dermal sensitizer, Skin - potential significant contribution to overall exposure by the cutaneous route, Not Classifiable as a Human Carcinogen
Dimethyl sulfide (75-18-3)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	10 ppm
Diphenyl oxide (101-84-8)	
New Zealand - Occupational Exposure Limits	
TWA (mg/m ³)	7 mg/m ³ (vapour)
TWA (ppm)	1 ppm (vapour)
STEL (mg/m ³)	14 mg/m ³ (vapour)
STEL (ppm)	2 ppm (vapour)
Malaysia - Occupational Exposure Limits	
PEL TWA (mg/m ³)	7 mg/m ³ (vapor)
PEL TWA (ppm)	1 ppm (vapor)
China - Occupational Exposure Limits	
OEL TWA	7 mg/m ³

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Diphenyl oxide (101-84-8)	
OEL STEL	14 mg/m ³
Catalogue of Occupational Hazard Factors	Category 3 - Chemicals
Korea - Occupational Exposure Limits	
ISHA TWA (ppm)	1 ppm (vapor)
ISHA STEL (ppm)	2 ppm (vapor)
Singapore - Occupational Exposure Limits	
OEL PEL (mg/m ³)	7 mg/m ³
OEL PEL (ppm)	1 ppm
OEL STEL (mg/m ³)	14 mg/m ³
OEL STEL (ppm)	2 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	7.1 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-vapor)
Occupational exposure limit value (ppm)	1 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-vapor)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	7.1 mg/m ³ (vapour)
WEL TWA (ppm)	1 ppm (vapour)
WEL STEL (mg/m ³)	21.3 mg/m ³ (calculated-vapour)
WEL STEL (ppm)	3 ppm (calculated-vapour)
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	1 ppm (vapor)
ACGIH STEL (ppm)	2 ppm (vapor)
Rose oxide (16409-43-1)	
Korea - Occupational Exposure Limits	
ISHA	Name, Toxicity and Protective Measures of New Chemical

Exposure limit values for the other components

No additional information available

8.2. Monitoring

No additional information available

8.3. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

8.4. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Wear protective gloves.

Eye protection : Safety glasses. Chemical goggles or safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear appropriate mask

Personal protective equipment symbol(s)



Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

Physical state : Liquid

Appearance : No data available

Colour : light yellow, amber

Odour : characteristic

Odour threshold : No data available

pH : No data available

Evaporation rate : No data available

Relative evaporation rate (butylacetate=1) : No data available

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Melting point / Freezing point	: Melting point : Not applicable
Boiling point	: No data available
Flash point	: 73.9 °C (closed cup) ASTM D7094
Auto-ignition temperature	: No data available
Flammability (solid, gas)	: Combustible liquid, Non flammable.
Vapour pressure	: No data available
Relative density	: No data available
Density	: Relative density : ≈ 0.98
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Explosive limits	: No data available
Minimum ignition energy	: No data available

SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Combustible liquid. May form flammable/explosive vapour-air mixture. Not established.
Possibility of hazardous reactions	: Not established.
Conditions to avoid	: Open flame. Overheating. Direct sunlight. Heat. Sparks. Extremely high or low temperatures.
Incompatible materials	: Strong acids. Strong bases.
Hazardous decomposition products	: May release flammable gases. fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

ATE NZ (oral)	1369.488 mg/kg bodyweight
Damascone alpha- (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one (24720-09-0) (24720-09-0)	
LD50 oral	1670 mg/kg bodyweight
LD50 dermal	2900 mg/kg bodyweight
Lemon oil (8008-56-8)	
LD50 oral rat	2840 mg/kg
Lime oil distilled (8008-26-2)	
LD50 oral rat	> 5 g/kg
Aldehyde C-10 (112-31-2)	
LD50 oral rat	3730 mg/kg
LD50 dermal rabbit	5040 mg/kg
Phenylmethanol (100-51-6)	
LD50 oral rat	1230 mg/kg
LD50 oral	1620 mg/kg bodyweight
LD50 dermal	2500 mg/kg bodyweight
Benzyl benzoate (120-51-4)	
LD50 oral rat	500 mg/kg
LD50 oral	1500 mg/kg bodyweight
LD50 dermal rabbit	4000 mg/kg
LD50 dermal	4000 mg/kg bodyweight
Citral pure (5392-40-5)	
LD50 oral rat	4960 mg/kg
LD50 dermal rabbit	2250 mg/kg
LD50 dermal	2250 mg/kg bodyweight
Citronellol Pure (106-22-9)	
LD50 oral rat	3450 mg/kg
LD50 oral	3450 mg/kg bodyweight
LD50 dermal rabbit	2650 mg/kg
LD50 dermal	2650 mg/kg bodyweight

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Citronellyl acetate (mixed Isomers) (150-84-5)	
LD50 oral rat	6800 mg/kg
Dimethyl octanol (106-21-8)	
LD50 oral rat	> 5 g/kg
LD50 dermal rabbit	2400 mg/kg
LD50 dermal	2400 mg/kg bodyweight
Dimethyl sulfide (75-18-3)	
LD50 oral rat	535 mg/kg
LD50 oral	3500 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (ppm)	40250 ppm/4h
Dimethylbenzyl carbiny l butyrate(DMBCB) (10094-34-5)	
LD50 oral rat	> 5 g/kg
Diphenyl oxide (101-84-8)	
LD50 oral rat	2450 mg/kg
LD50 oral	2830 mg/kg bodyweight
LD50 dermal rabbit	> 7940 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	1.5 mg/l/4h
Elemi oil (8023-89-0)	
LD50 oral rat	3370 mg/kg
Geranium oil Egyptian (8000-46-2)	
LD50 dermal	2500 mg/kg bodyweight
Geranyl acetate (105-87-3)	
LD50 oral rat	6330 mg/kg
Geranyl formate (105-86-2)	
LD50 oral rat	> 6 g/kg
Geranyl isobutyrate (2345-26-8)	
LD50 oral rat	> 5 g/kg
Hedione (24851-98-7)	
LD50 oral rat	> 5 g/kg
Hexyl cinnamic aldehyde (101-86-0)	
LD50 oral rat	3100 mg/kg
LD50 oral	3100 mg/kg bodyweight
LD50 dermal rabbit	> 3000 mg/kg
LC50 inhalation rat (mg/l)	> 5 mg/l/4h
Hexamethylindanopyran (1222-05-5)	
LD50 oral rat	> 3250 mg/kg
LD50 dermal rabbit	> 3250 mg/kg
Isomenthone (491-07-6)	
LD50 oral	2500 mg/kg bodyweight
Leaf alcohol (928-96-1)	
LD50 oral rat	4700 mg/kg
LD50 dermal rabbit	5000 mg/kg
Linalool (78-70-6)	
LD50 oral rat	2790 mg/kg
LD50 oral	2790 mg/kg bodyweight
LD50 dermal rabbit	2000 mg/kg
Linalyl acetate (115-95-7)	
LD50 oral rat	14550 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
Rose oxide (16409-43-1)	
LD50 oral rat	4300 mg/kg
LD50 oral	4300 mg/kg bodyweight
Styralyl acetate (93-92-5)	
LD50 oral rat	> 5 g/kg
Triplal (Vertocitral) (68039-49-6)	
LD50 oral	3900 mg/kg bodyweight

Skin corrosion/irritation

: Causes skin irritation.

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Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: 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	: Not classified

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Viscosity, kinematic	
Potential adverse human health effects and symptoms	: Harmful if swallowed. Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.
Soil toxicity	: Not classified
Terrestrial vertebrate toxicity	: Toxic to terrestrial vertebrates.
Terrestrial invertebrate toxicity	: Not classified
Other information	: Avoid release to the environment.

Lemon oil (8008-56-8)	
LD50 oral rat	2840 mg/kg
Lime oil distilled (8008-26-2)	
LD50 oral rat	> 5 g/kg
Aldehyde C-10 (112-31-2)	
LC50 fish 1	1.45 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
LD50 dermal rabbit	5040 mg/kg
LD50 oral rat	3730 mg/kg
Phenylmethanol (100-51-6)	
LC50 fish 1	460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
LC50 fish 2	10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	23 mg/l (Exposure time: 48 h - Species: water flea)
Partition coefficient n-octanol/water (Log Pow)	1.1
LD50 oral rat	1230 mg/kg
Benzyl benzoate (120-51-4)	
LC50 fish 1	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
NOEC (chronic)	0.168 mg/l
Partition coefficient n-octanol/water (Log Pow)	4
LD50 dermal rabbit	4000 mg/kg
LD50 oral rat	500 mg/kg
Citral pure (5392-40-5)	
EC50 Daphnia 1	7 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h algae (1)	16 mg/l (Species: Desmodesmus subspicatus)
Partition coefficient n-octanol/water (Log Pow)	2.76 (at 25 °C)
LD50 dermal rabbit	2250 mg/kg
LD50 oral rat	4960 mg/kg
Citronellol Pure (106-22-9)	
LD50 dermal rabbit	2650 mg/kg
LD50 oral rat	3450 mg/kg
Citronellyl acetate (mixed Isomers) (150-84-5)	
LC50 fish 1	6.1 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
LD50 oral rat	6800 mg/kg
Dimethyl octanol (106-21-8)	
LD50 dermal rabbit	2400 mg/kg

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Dimethyl octanol (106-21-8)	
LD50 oral rat	> 5 g/kg
Dimethyl sulfide (75-18-3)	
LC50 fish 1	213 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
EC50 Daphnia 1	23 mg/l (Exposure time: 48 h - Species: Daphnia pulex)
LD50 dermal rabbit	> 5000 mg/kg
LD50 oral rat	535 mg/kg
Dimethylbenzyl carbonyl butyrate(DMBCB) (10094-34-5)	
LD50 oral rat	> 5 g/kg
Diphenyl oxide (101-84-8)	
LC50 fish 1	4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	4 – 7.9 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	0.11 – 1.1 mg/l (Exposure time: 48 h - Species: Daphnia magna)
BCF fish 1	470
Partition coefficient n-octanol/water (Log Pow)	4.2
LD50 dermal rabbit	> 7940 mg/kg
LD50 oral rat	2450 mg/kg
Elemi oil (8023-89-0)	
LD50 oral rat	3370 mg/kg
Geranyl acetate (105-87-3)	
LD50 oral rat	6330 mg/kg
Geranyl formate (105-86-2)	
LD50 oral rat	> 6 g/kg
Geranyl isobutyrate (2345-26-8)	
LD50 oral rat	> 5 g/kg
Hedione (24851-98-7)	
LC50 fish 1	19 mg/l (Exposure time: 96 h - Species: Oryzias latipes [semi-static])
LD50 oral rat	> 5 g/kg
Hexyl cinnamic aldehyde (101-86-0)	
LD50 dermal rabbit	> 3000 mg/kg
LD50 oral rat	3100 mg/kg
Hexamethylindanopyran (1222-05-5)	
LC50 fish 1	0.452 mg/l Wolf, 1996d-27682
LC50 other aquatic organisms 1	> 0.14 mg/l REACH DOSSIER Pimephales promelas
EC50 Daphnia 2	260 µg/l REACH Dossier
EC50 other aquatic organisms 1	0.131 mg/l REACH Dossier
LD50 dermal rabbit	> 3250 mg/kg
LD50 oral rat	> 3250 mg/kg
Leaf alcohol (928-96-1)	
LC50 fish 1	352 – 412 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LD50 dermal rabbit	5000 mg/kg
LD50 oral rat	4700 mg/kg
Linalool (78-70-6)	
LC50 fish 1	27.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	20 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Partition coefficient n-octanol/water (Log Pow)	2.84 – 3.1 (at 25 °C)
LD50 dermal rabbit	2000 mg/kg
LD50 oral rat	2790 mg/kg
Linalyl acetate (115-95-7)	
LC50 fish 1	11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through])
LD50 dermal rabbit	> 5000 mg/kg
LD50 oral rat	14550 mg/kg
Rose oxide (16409-43-1)	
LD50 oral rat	4300 mg/kg
Styralyl acetate (93-92-5)	
LC50 fish 1	18.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
LD50 oral rat	> 5 g/kg

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12.2. Persistence and degradability

Lemongrass & Ginger #17951F	
Persistence and degradability	Not established.
Benzyl benzoate (120-51-4)	
Persistence and degradability	May cause long-term adverse effects in the environment.
Geranium oil Egyptian (8000-46-2)	
Persistence and degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

Lemongrass & Ginger #17951F	
Bioaccumulative potential	Not established.
Phenylmethanol (100-51-6)	
Partition coefficient n-octanol/water (Log Pow)	See section 12.1 on ecotoxicology
Benzyl benzoate (120-51-4)	
Partition coefficient n-octanol/water (Log Pow)	See section 12.1 on ecotoxicology
Bioaccumulative potential	Not established.
Citral pure (5392-40-5)	
Partition coefficient n-octanol/water (Log Pow)	See section 12.1 on ecotoxicology
Diphenyl oxide (101-84-8)	
BCF fish 1	See section 12.1 on ecotoxicology
Partition coefficient n-octanol/water (Log Pow)	See section 12.1 on ecotoxicology
Geranium oil Egyptian (8000-46-2)	
Bioaccumulative potential	Not established.
Linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	See section 12.1 on ecotoxicology

12.4. Mobility in soil

Lemongrass & Ginger #17951F	
Mobility in soil	No additional information available
Phenylmethanol (100-51-6)	
Partition coefficient n-octanol/water (Log Pow)	See section 12.1 on ecotoxicology
Benzyl benzoate (120-51-4)	
Partition coefficient n-octanol/water (Log Pow)	See section 12.1 on ecotoxicology
Citral pure (5392-40-5)	
Partition coefficient n-octanol/water (Log Pow)	See section 12.1 on ecotoxicology
Diphenyl oxide (101-84-8)	
Partition coefficient n-octanol/water (Log Pow)	See section 12.1 on ecotoxicology
Linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	See section 12.1 on ecotoxicology

12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available

SECTION 13: Disposal considerations

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose of contents/container in accordance with local/national laws and regulations. Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
Additional information	: Handle empty containers with care because residual vapours are flammable.

SECTION 14: Transport information

14.1. UN number

UN-No.(UN RTDG)	: Not applicable
UN-No. (IMDG)	: 3082
UN-No. (IATA)	: 3082

14.2. Proper Shipping Name

Proper Shipping Name (UN RTDG)	: Not applicable
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-Limonene)

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Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s. (d-Limonene)

14.3. Transport hazard class(es)

UN RTDG

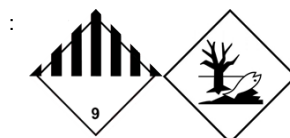
Transport hazard class(es) (UN RTDG) : Not applicable



IMDG

Transport hazard class(es) (IMDG) : 9

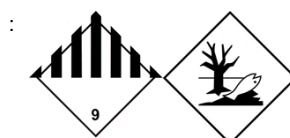
Danger labels (IMDG) : 9



IATA

Transport hazard class(es) (IATA) : 9

Danger labels (IATA) : 9



14.4. Packing group

Packing group (UN RTDG) : Not applicable

Packing group (IMDG) : III

Packing group (IATA) : III

14.5. Environmental hazards

Dangerous for the environment : True

Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

UN RTDG

No data available

IMDG

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, LP01

Special packing provisions (IMDG) : PP1

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T4

Tank special provisions (IMDG) : TP2, TP29

EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE

EmS-No. (Spillage) : S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS

Stowage category (IMDG) : A

IATA

PCA Excepted quantities (IATA) : E1

PCA Limited quantities (IATA) : Y964

PCA limited quantity max net quantity (IATA) : 30kgG

PCA packing instructions (IATA) : 964

PCA max net quantity (IATA) : 450L

CAO packing instructions (IATA) : 964

CAO max net quantity (IATA) : 450L

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Special provisions (IATA) : A97, A158, A197
ERG code (IATA) : 9L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

14.8. Hazchem or Emergency Action Code

EAC code : •3Z.

SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017

HSNO Approval Number : HSR002578

Lemon oil (8008-56-8)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR003520

Lime oil distilled (8008-26-2)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR004085

Aldehyde C-10 (112-31-2)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR002729

Phenylmethanol (100-51-6)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR001039

Benzyl benzoate (120-51-4)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR003504

Citral pure (5392-40-5)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR002728

Citronellol Pure (106-22-9)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR003483

Dimethyl octanol (106-21-8)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR003232

Diphenyl oxide (101-84-8)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR003050

Geranium oil Egyptian (8000-46-2)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR007380

Leaf alcohol (928-96-1)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR003488

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Linalool (78-70-6)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR003500

Linalyl acetate (115-95-7)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR003499

Triplal (Vertocitral) (68039-49-6)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR003489

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Date of issue : 2/10/2020

Other information : None.

Full text of H-statements:

3.1B: Flam. Liq. 2	3.1B: Flammable liquids, Category 2
3.1C: Flam. Liq. 3	3.1C: Flammable liquids, Category 3
3.1D: Flam. Liq. 4	3.1D: Flammable liquids, Category 4
6.1D: Acute Tox. 4 (Dermal)	6.1D: Acute toxicity (dermal), Category 4
6.1D: Acute Tox. 4 (Inhalation:dust,mist)	6.1D: Acute toxicity (inhalation:dust,mist) Category 4
6.1D: Acute Tox. 4 (Inhalation:gas)	6.1D: Acute toxicity (inhalation:gas) Category 4
6.1D: Acute Tox. 4 (Oral)	6.1D: Acute toxicity (oral), Category 4
6.1E: Acute Tox. 5 (Dermal)	6.1E: Acute toxicity (dermal), Category 5
6.1E: Acute Tox. 5 (Oral)	6.1E: Acute toxicity (oral), Category 5
6.1E: Asp. Tox. 1	6.1E: Aspiration hazard, Category 1
6.3A: Skin Irrit. 2	6.3A: Skin corrosion/irritation, Category 2
6.4A: Eye Irrit. 2	6.4A: Serious eye damage/eye irritation, Category 2
6.5B: Skin Sens. 1	6.5B: Skin sensitisation, Category 1
6.8B: Repr. 2	6.8B: Reproductive toxicity, Category 2
8.3A: Eye Dam. 1	8.3A: Serious eye damage/eye irritation, Category 1
9.1A: Aquatic Acute 1	9.1A: Hazardous to the aquatic environment — Acute Hazard, Category 1
9.1A: Aquatic Chronic 1	9.1A: Hazardous to the aquatic environment — Chronic Hazard, Category 1
9.1B: Aquatic Chronic 2	9.1B: Hazardous to the aquatic environment — Chronic Hazard, Category 2
9.1C: Aquatic Chronic 3	9.1C: Hazardous to the aquatic environment — Chronic Hazard, Category 3
9.1D: Aquatic Acute 2	9.1D: Hazardous to the aquatic environment — Acute Hazard, Category 2
9.1D: Aquatic Acute 3	9.1D: Hazardous to the aquatic environment — Acute Hazard, Category 3
9.3B: Ecotoxicity to terrestrial vertebrates B	9.3B: Ecotoxicity to terrestrial vertebrates B
9.3C: Ecotoxicity to terrestrial vertebrates C	9.3C: Ecotoxicity to terrestrial vertebrates C
Acute Tox. Not classified (Dermal)	Acute toxicity (dermal) Not classified

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Acute Tox. Not classified (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Not classified
Acute Tox. Not classified (Oral)	Acute toxicity (oral) Not classified
Aquatic Acute Not classified	Hazardous to the aquatic environment - Acute Hazard Not classified
Flam. Liq. Not classified	Flammable liquids Not classified
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H227	Combustible liquid
H302	Harmful if swallowed.
H303	May be harmful if swallowed
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H313	May be harmful in contact with skin
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
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
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H432	Toxic to terrestrial vertebrates
H433	Harmful to terrestrial vertebrates

CANDLE CREATIONS SDS NEW ZEALAND

The data contained in this Safety Data Sheet is accurate to the best knowledge of Candle Creations applies to the product as supplied by Candle Creations and does not relate to use in combination with any other material or in any process. Data and information are furnished without warranty expressed or implied, nor does Candle Creations assume responsibility for use or reliance upon this data.

This SDS is current to the date listed above. However, the GHS classifications may change due to hazard communication updates by the overseeing governing body. For the most current SDS information please contact info@candlecreations.co.nz