

#### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 1/22/2020

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture

Product name : Ginger Pomelo # : Product code : Perfumes, Fragrances :

Type of product Finished Good

Product group

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Industrial use Industrial/Professional use spec : Industrial

Use of the substance/mixture : Perfumes, Fragrances
Function or use category : Odour agents

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

ZEN AROMA 22c Portside Drive Mt Maunganui, 3116 New Zealand PH: 07 578 4755

support@zenaroma.co.nz

#### 1.4. Emergency telephone number

Emergency number : 1-800-255-3924; +01-813-248-0585; China:+400-120-0751; Mexico:+01-800-099-0731;

Brazil: +0-800-591-6042; India: +000-800-100-4086

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids Category 3 H226
Skin corrosion/irritation Category 2 H315
Skin sensitization, Category 1 H317
Aspiration hazard Category 1 H304
Hazardous to the aquatic environment - Chronic Hazard Category 1 H410

Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes skin irritation. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

#### 2.2. Label elements

#### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS02







GHS07

GHS08

GHS09

Signal word (CLP) : Danger

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Hazardous ingredients : Grapefruit oil; Hexyl cinnamic aldehyde; Lemon oil ; CITRUS LIMON PEEL OIL; Linalool;

acetyl cedrene

Hazard statements (CLP) : H226 - Flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P233 - Keep container tightly closed.

P240 - Ground and bond container and receiving equipment.

P241 - Use explosion-proof electrical/ventilating/lighting/... equipment.

P264 - Wash ... thoroughly after handling.

#### 2.3. Other hazards

No additional information available

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

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Lemon oil	(CAS-No.) 8008-56-8 (EC-No.) 284-515-8;616-925-3	9 – 18	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410
CITRUS LIMON PEEL OIL	(CAS-No.) 84929-31-7 (EC-No.) 284-515-8	5 – 10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 1, H410
Hexyl cinnamic aldehyde	(CAS-No.) 101-86-0 (EC-No.) 202-983-3 (REACH-no) 01-2119533092-50	4.4 – 8.8	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Linalool	(CAS-No.) 78-70-6 (EC-No.) 201-134-4 (EC Index-No.) 603-235-00-2 (REACH-no) 01-2119474016-42	1.15 – 2.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Ethylene brassylate	(CAS-No.) 105-95-3 (EC-No.) 203-347-8 (REACH-no) 01-2119967772-24	1 – 2	Aquatic Chronic 2, H411
Methyl pamplemousse	(CAS-No.) 67674-46-8 (EC-No.) 266-885-2	1 – 2	Aquatic Chronic 3, H412 Skin Irrit. 2, H315
acetyl cedrene	(CAS-No.) 32388-55-9 (EC-No.) 251-020-3 (REACH-no) 01-2119969651-28	1 – 2	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Grapefruit oil	(CAS-No.) 8016-20-4 (EC-No.) 289-904-6;600-007-4	0.5 – 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

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Citral pure	(CAS-No.) 5392-40-5 (EC-No.) 226-394-6 (EC Index-No.) 605-019-00-3 (REACH-no) 01-2119462829-23	0.35 – 0.7	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Allyl caproate	(CAS-No.) 123-68-2 (EC-No.) 204-642-4 (REACH-no) 01-2119983573-26	0.3 – 0.6	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Cedarwood oil, Texas	(CAS-No.) 68990-83-0 (EC-No.) 294-461-7;614-888-8	0.225 – 0.45	Asp. Tox. 1, H304 Aquatic Chronic 1, H410
Geraniol	(CAS-No.) 106-24-1 (EC-No.) 203-377-1 (REACH-no) 01-2119552430-49	0.225 – 0.45	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
Ethyl acetate substance with a Community workplace exposure limit	(CAS-No.) 141-78-6 (EC-No.) 205-500-4 (EC Index-No.) 607-022-00-5 (REACH-no) 01-2119475103-46	0.175 – 0.35	Flam. Liq. 1, H224 Eye Irrit. 2, H319 STOT SE 3, H336
Amyl salicylate	(CAS-No.) 2050-08-0 (EC-No.) 218-080-2 (REACH-no) 01-2119969444-27	0.15 – 0.3	Acute Tox. 4 (Oral), H302 Aquatic Chronic 1, H410
Tangerine oil	(CAS-No.) 8016-85-1 (EC-No.) 297-672-2	0.15 – 0.3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Allyl cyclohexylpropionate	(CAS-No.) 2705-87-5 (EC-No.) 220-292-5	0.125 – 0.25	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Eugenol	(CAS-No.) 97-53-0 (EC-No.) 202-589-1	0.125 – 0.25	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Cyclamal	(CAS-No.) 103-95-7 (EC-No.) 203-161-7 (REACH-no) 01-2119970582-32	0.05 – 0.1	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
zingiber officinale (ginger) root oil	(CAS-No.) 8007-08-7 (EC-No.) 283-634-2	0.05 – 0.1	Skin Sens. 1, H317 Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

#### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general

: 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
First-aid measures after skin contact

: Allow affected person to breathe fresh air. Allow the victim to rest.

: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and 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 immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

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First-aid measures after ingestion : Immediately call a poison center or doctor/physician. Rinse mouth. 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 : Causes skin irritation.

Symptoms/effects after ingestion : May be fatal if swallowed and enters airways.

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

Treat symptomatically.

#### **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 : Flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapor-air mixture.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

#### **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.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

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 : 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

See Heading 8. Exposure controls and personal protection.

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#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Additional hazards when processed Precautions for safe handling

: Handle empty containers with care because residual vapors are flammable.

: No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. 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 vapor.

Hygiene measures : 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. Ground/bond

container and receiving equipment. Use explosion-proof electrical/ventilating/lighting

equipment

Storage conditions : Keep container tightly closed. 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.

: 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.

#### 7.3. Specific end use(s)

Incompatible products

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Citral pure (5392-40-5)		
Belgium - Occupational Exposure Limits		
Limit value (mg/m³)	32 mg/m³ (vapor and aerosol)	
Limit value (ppm)	5 ppm (vapor and aerosol)	
OEL chemical category (BE)	Skin	
Ireland - Occupational Exposure Limits		
OEL (8 hours ref) (ppm)	5 ppm	
OEL (15 min ref) (ppm)	15 ppm (calculated)	
Poland - Occupational Exposure Limits		
NDS (mg/m³)	27 mg/m³	
NDSCh (mg/m³)	54 mg/m³	
Portugal - Occupational Exposure Limits		
OEL chemical category (PT)	Sensitizer	
Spain - Occupational Exposure Limits		
VLA-ED (ppm)	5 ppm (inhalable fraction and vapor)	
OEL chemical category (ES)	Sensitizer, skin - potential for cutaneous absorption	
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

Ethyl acetate (141-78-6)		
EU - Occupational Exposure Limits		
IOELV TWA (mg/m³)	734 mg/m³	
IOELV TWA (ppm)	200 ppm	
IOELV STEL (mg/m³)	1468 mg/m³	
IOELV STEL (ppm)	400 ppm	
Austria - Occupational Exposure Limits		
MAK (mg/m³)	734 mg/m³	
MAK (ppm)	200 ppm	
MAK Short time value (mg/m³)	1468 mg/m³	
MAK Short time value (ppm)	400 ppm	
Belgium - Occupational Exposure Limits		
Limit value (mg/m³)	734 mg/m³	
Limit value (ppm)	200 ppm	
Short time value (mg/m³)	1468 mg/m³	
Short time value (ppm)	400 ppm	
Bulgaria - Occupational Exposure Limits		
OEL TWA (mg/m³)	734 mg/m³	
OEL TWA (ppm)	200 ppm	
OEL STEL (mg/m³)	1468 mg/m³	
OEL STEL (ppm)	400 ppm	
Croatia - Occupational Exposure Limits		
GVI (granična vrijednost izloženosti) (mg/m³)	734 mg/m³	
GVI (granična vrijednost izloženosti) (ppm)	200 ppm	
KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³)	1468 mg/m³	
KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	400 ppm	
Cyprus - Occupational Exposure Limits		
OEL TWA (mg/m³)	734 mg/m³	
OEL TWA (ppm)	200 ppm	
OEL STEL (mg/m³)	1468 mg/m³	
OEL STEL (ppm)	400 ppm	
Czech Republic - Occupational Exposure Limits		
Exposure limits (PEL) (mg/m³)	700 mg/m³	
Denmark - Occupational Exposure Limits		
Limit (long-term) (mg/m³)	540 mg/m³	
Limit (long-term) (ppm)	150 ppm	
Estonia - Occupational Exposure Limits		
OEL TWA (mg/m³)	500 mg/m³	

OEL TWA (ppm)	150 ppm
OEL STEL (mg/m³)	1100 mg/m³
OEL STEL (ppm)	300 ppm
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m³)	730 mg/m³
HTP-arvo (8h) (ppm)	200 ppm
HTP-arvo (15 min)	1470 mg/m³
HTP-arvo (15 min) (ppm)	400 ppm
France - Occupational Exposure Limits	
VME (mg/m³)	1400 mg/m³
VME (ppm)	400 ppm
Germany - Occupational Exposure Limits (TRGS 90	0)
Occupational exposure limit value (mg/m³)	730 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Occupational exposure limit value (ppm)	200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Gibraltar - Occupational Exposure Limits	
Eight hours mg/m3	200 mg/m³
Eight hours ppm	734 ppm
Short-term mg/m3	400 mg/m³
Short-term ppm	1468 ppm
Greece - Occupational Exposure Limits	
OEL TWA (mg/m³)	734 mg/m³
OEL TWA (ppm)	200 ppm
OEL STEL (mg/m³)	1468 mg/m³
OEL STEL (ppm)	400 ppm
Hungary - Occupational Exposure Limits	
Exposure Limit Value	734 mg/m³
CK-érték	1468 mg/m³
OEL chemical category (HU)	Sensitizer
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m³)	734 mg/m³
OEL (8 hours ref) (ppm)	200 ppm
OEL (15 min ref) (mg/m3)	1468 mg/m³
OEL (15 min ref) (ppm)	400 ppm
Latvia - Occupational Exposure Limits	
OEL TWA (mg/m³)	200 mg/m³
OEL TWA (ppm)	54 ppm
Lithuania - Occupational Exposure Limits	
IPRV (mg/m³)	500 mg/m³
IPRV (ppm)	150 ppm
NRV (mg/m³)	1100 mg/m³
	I.

NRV (ppm)	300 ppm	
Luxembourg - Occupational Exposure Limits		
OEL STEL (mg/m³)	1468 mg/m³	
OEL STEL (ppm)	400 ppm	
Malta - Occupational Exposure Limits		
OEL TWA (mg/m³)	734 mg/m³	
OEL TWA (ppm)	200 ppm	
OEL STEL (mg/m³)	1468 mg/m³	
OEL STEL (ppm)	400 ppm	
Netherlands - Occupational Exposure Limits		
Grenswaarde TGG 8H (mg/m³)	734 mg/m³	
Grenswaarde TGG 15MIN (mg/m³)	1468 mg/m³	
Poland - Occupational Exposure Limits		
NDS (mg/m³)	734 mg/m³	
NDSCh (mg/m³)	1468 mg/m³	
Portugal - Occupational Exposure Limits		
OEL TWA (ppm)	400 ppm	
Romania - Occupational Exposure Limits		
OEL TWA (mg/m³)	400 mg/m³	
OEL TWA (ppm)	111 ppm	
OEL STEL (mg/m³)	500 mg/m³	
OEL STEL (ppm)	139 ppm	
Slovakia - Occupational Exposure Limits		
NPHV (priemerná) (mg/m³)	734 mg/m³	
NPHV (priemerná) (ppm)	200 ppm	
NPHV (Hraničná) (mg/m³)	1100 mg/m³	
Slovenia - Occupational Exposure Limits		
OEL TWA (mg/m³)	734 mg/m³	
OEL TWA (ppm)	200 ppm	
OEL STEL (mg/m³)	1468 mg/m³	
OEL STEL (ppm)	400 ppm	
Spain - Occupational Exposure Limits		
VLA-ED (mg/m³)	734 mg/m³	
VLA-ED (ppm)	200 ppm	
VLA-EC (mg/m³)	1468 mg/m³	
VLA-EC (ppm)	400 ppm	
Sweden - Occupational Exposure Limits		
nivågränsvärde (NVG) (mg/m³)	500 mg/m³	
nivågränsvärde (NVG) (ppm)	150 ppm	
kortidsvärde (KTV) (mg/m³)	1100 mg/m³	
kortidsvärde (KTV) (ppm)	300 ppm	

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United Kingdom - Occupational Exposure Limits		
WEL TWA (mg/m³)	734 mg/m³	
WEL TWA (ppm)	200 ppm	
WEL STEL (mg/m³)	1468 mg/m³	
WEL STEL (ppm)	400 ppm	
Norway - Occupational Exposure Limits	Norway - Occupational Exposure Limits	
TWA (AN) (mg/m³)	734 mg/m³	
TWA (AN) (ppm)	200 ppm	
TWA (Korttidsverdi) (mg/m3)	917.5 mg/m³ (value calculated)	
TWA (Korttidsverdi) (ppm)	250 ppm (value calculated)	
Switzerland - Occupational Exposure Limits		
MAK (mg/m³)	730 mg/m³	
MAK (ppm)	200 ppm	
KZGW (mg/m³)	1460 mg/m³	
KZGW (ppm)	400 ppm	
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (ppm)	400 ppm	

#### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protective equipment:

Avoid all unnecessary exposure.

Hand	protection:	
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Wear protective gloves.

#### Eye protection:

Chemical goggles or safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Wear respiratory protection. Wear appropriate mask

#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke during use.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : light yellow. amber.

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Odor : characteristic.
Odor threshold : No data available
pH : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available

Flash point : 57 °C (closed cup) ASTM D7094

Auto-ignition temperature : No data available Decomposition temperature : No data available

Flammability (solid, gas) : Flammable liquid and vapour, Non flammable.

Vapor pressure : No data available Relative vapor density at 20 °C : No data available

Relative density : ≈ 0.94

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
Oxidizing properties : No data available
Explosion limits : No data available

#### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Flammable liquid and vapour.

#### 10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapor-air mixture. Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. Heat. Sparks. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. 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) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

Allyl caproate (123-68-2)	
LD50 oral	300 mg/kg body weight
LD50 dermal	300 mg/kg body weight

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LC50 inhalation rat (Vapors - mg/l/4h)	3 mg/l/4h		
Allyl cyclohexylpropionate (2705-87-5)	Allyl cyclohexylpropionate (2705-87-5)		
LD50 oral rat	585 mg/kg		
LD50 oral	480 mg/kg body weight		
LD50 dermal	1600 mg/kg body weight		
LC50 inhalation rat (Vapors - mg/l/4h)	11 mg/l/4h		
Amyl salicylate (2050-08-0)			
LD50 oral rat	4100 mg/kg		
LD50 oral	2000 mg/kg body weight		
LD50 dermal rabbit	> 5000 mg/kg		
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Citral pure (5392-40-5)	1000		
LD50 oral rat	4960 mg/kg		
LD50 dermal rabbit	2250 mg/kg		
LD50 dermal	2250 mg/kg body weight		
Cyclamal (103-95-7)			
LD50 oral rat	3810 mg/kg		
LD50 oral	3810 mg/kg body weight		
Ethyl acetate (141-78-6)			
LD50 oral rat	5620 mg/kg		
LD50 dermal rabbit	> 18000 mg/kg		
LC50 inhalation rat (ppm)	4000 ppm/4h		
Ethylene brassylate (105-95-3)			
LD50 oral rat	> 5000 mg/kg		
LD50 dermal rabbit	> 5000 mg/kg		
Eugenol (97-53-0)			
LD50 oral rat	1930 mg/kg		
LD50 oral	2500 mg/kg body weight		
Geraniol (106-24-1)			
LD50 oral rat	3600 mg/kg		
LD50 oral	3600 mg/kg body weight		
LD50 dermal rabbit	> 5 g/kg		
zingiber officinale (ginger) root oil (8007-08-7)			
LD50 oral rat	> 5 g/kg		
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Grapefruit oil (8016-20-4)	
LD50 oral rat	> 5 g/kg

Hexyl cinnamic aldehyde (101-86-0)	
LD50 oral rat 3100 mg/kg	
LD50 oral	3100 mg/kg body weight
LD50 dermal rabbit	> 3000 mg/kg
LC50 inhalation rat (mg/l) > 5 mg/l/4h	

Lemon oil (8008-56-8)	
LD50 oral rat	2840 mg/kg

Linalool (78-70-6)	
LD50 oral rat 2790 mg/kg	
LD50 oral	2790 mg/kg body weight
LD50 dermal rabbit	2000 mg/kg

acetyl cedrene (32388-55-9)	
LD50 oral	4500 mg/kg body weight

 Skin corrosion/irritation
 : Causes skin irritation.

 Additional information
 : 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

IARC group	3 - Not classifiable

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

Potential Adverse human health effects and

symptoms

Eugenol (97-53-0)

: Based on available data, the classification criteria are not met.

#### **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

: Very toxic to aquatic life with long lasting effects.

(chronic)

Allyl caproate (123-68-2)			
LC50 fish 1	0.117 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])		
	Allyl cyclohexylpropionate (2705-87-5)		
LC50 fish 1	0.13 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])		
Citral pure (5392-40-5)			
EC50 Daphnia 1	7 mg/l (Exposure time: 48 h - Species: Daphnia magna)		
EC50 72h algae [mg/l] 1	16 mg/l (Species: Desmodesmus subspicatus)		
EC50 96h algae (1)	19 mg/l (Species: Desmodesmus subspicatus)		
Ethyl acetate (141-78-6)			
LC50 fish 1	220 – 250 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])		
LC50 fish 2	484 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])		
EC50 Daphnia 1	560 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])		
F			
Eugenol (97-53-0)	40 mg/l (Employee time 200 h. Oursing Partitional Leaving Activity)		
LC50 fish 1	13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])		
Geraniol (106-24-1)			
LC50 fish 1	22 mg/l (Exposure time: 96 h - Species: Danio rerio [static])		
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)		
EC50 96h algae (1)	88.3 mg/l (Species: Desmodesmus subspicatus)		
12.2. Persistence and degradability			
Ginger Pomelo #			
Persistence and degradability	Not established.		
Cedarwood oil, Texas (68990-83-0)			
Persistence and degradability	Not established.		
12.3. Bioaccumulative potential			
Ginger Pomelo #			
Bioaccumulative potential	Not established.		
Disassamalario potential	net scapioned.		
Cedarwood oil, Texas (68990-83-0)			
Bioaccumulative potential	Not established.		
Citral pure (5392-40-5)			
Partition coefficient n-octanol/water (Log Pow)	2.76 (at 25 °C)		
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Ethyl acetate (141-78-6)	
BCF fish 1 30	
Partition coefficient n-octanol/water (Log Pow)	0.6

Linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2.84 – 3.1 (at 25 °C)

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

Additional 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 of contents/container in accordance with local/national laws and regulations.

Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Hazardous waste due to toxicity. Avoid release to the environment.

#### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

 UN-No. (ADR)
 : UN 1993

 UN-No. (IMDG)
 : UN 1993

 UN-No. (IATA)
 : UN 1993

 UN-No. (ADN)
 : UN 1993

 UN-No. (RID)
 : Not regulated

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, N.O.S.
Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, N.O.S.
Proper Shipping Name (IATA) : Flammable liquid, n.o.s.
Proper Shipping Name (ADN) : FLAMMABLE LIQUID, N.O.S.

Proper Shipping Name (RID) : Not regulated

Transport document description (ADR) : UN 1993 FLAMMABLE LIQUID, N.O.S. (lemon oil ), 3, III, (E), ENVIRONMENTALLY

**HAZARDOUS** 

Transport document description (IMDG) : UN 1993 FLAMMABLE LIQUID, N.O.S. (lemon oil ), 3, III, MARINE

POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA) : UN 1993 Flammable liquid, n.o.s. (lemon oil ), 3, III, ENVIRONMENTALLY HAZARDOUS

Transport document description (ADN) : UN 1993 FLAMMABLE LIQUID, N.O.S. (lemon oil ), 3, III, ENVIRONMENTALLY

**HAZARDOUS** 

#### 14.3. Transport hazard class(es)

#### **ADR**

Transport hazard class(es) (ADR) : 3

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Hazard labels (ADR) : 3



#### **IMDG**

Transport hazard class(es) (IMDG) : 3
Hazard labels (IMDG) : 3



#### IATA

Transport hazard class(es) (IATA) : 3
Hazard labels (IATA) : 3



#### ADN

Transport hazard class(es) (ADN) : 3 Hazard labels (ADN) : 3



#### RID

Transport hazard class(es) (RID) : Not regulated

### 14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III

Packing group (RID) : Not regulated

#### 14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes

Other information : No supplementary information available

#### 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) : F1
Special provision (ADR) : 274, 601
Limited quantities (ADR) : 51
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC02, R001

Special packing provisions (ADR) : BB4
Mixed packing provisions (ADR) : MP19
Transport category (ADR) : 3
Special provisions for carriage - Operation (ADR) : S2
Tunnel restriction code (ADR) : E
EAC : •3YE

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: A

Transport by sea

Special provision (IMDG) : 223, 274, 955

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 Packing instructions (IMDG) : LP01, P001 IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T4 : TP1, TP29 Tank special provisions (IMDG) : F-E EmS-No. (Fire) EmS-No. (Spillage) : S-E

Air transport

Stowage category (IMDG)

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y344 PCA limited quantity max net quantity (IATA) : 10L PCA packing instructions (IATA) : 355 : 60L PCA max net quantity (IATA) CAO packing instructions (IATA) : 366 : 220L CAO max net quantity (IATA) : A3 Special provision (IATA) : 3L ERG code (IATA)

Inland waterway transport

Classification code (ADN) : F1
Special provision (ADN) : 274, 601
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01
Number of blue cones/lights (ADN) : 0

Rail transport Not regulated

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:		
Reference code	Applicable	
3(a)	Ginger Pomelo #; Ethyl acetate; Grapefruit oil; Lemon oil; CITRUS LIMON PEEL OIL; Tangerine oil	
3(b)	Ginger Pomelo #; Allyl caproate; Allyl cyclohexylpropionate; Amyl salicylate; Cedarwood oil, Texas; Citral pure; Cyclamal; Ethyl acetate; Eugenol; Geraniol; zingiber officinale (ginger) root oil; Grapefruit oil; Hexyl cinnamic aldehyde; Lemon oil; CITRUS LIMON PEEL OIL; Linalool; Methyl pamplemousse; Tangerine oil; acetyl cedrene	
3(c) Ginger Pomelo #; Allyl caproate; Allyl cyclohexylpropionate; Amyl salicylate; Cedarwood oil, Texas; Cyclamal; Ethylene brassylate; zingiber officinale (ginger) root oil; Grapefruit oil; Hexyl cinnamic aldehyde; Lemon oil; CITRUS LIMON PEE OIL; Methyl pamplemousse; Tangerine oil; acetyl cedrene		
40. Ginger Pomelo # ; Ethyl acetate ; Grapefruit oil ; Lemon oil ; CITRUS LIMON PEEL OIL ; Tangerine oil		

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance(s) subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

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#### 15.1.2. National regulations

#### Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Cedarwood oil, Texas ,Ginger oil,Grapefruit oil,Lemon oil ,CITRUS LIMON PEEL

OIL, Methyl pamplemousse, Tangerine oil are listed

SZW-lijst van mutagene stoffen : Ginger oil,Grapefruit oil,Lemon oil ,CITRUS LIMON PEEL OIL,Methyl pamplemousse are

listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Ontwikkeling

: None of the components are listed

: None of the components are listed

: None of the components are listed

Denmark

Class for fire hazard : Class III-1 Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines

for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

#### **SECTION 16: Other information**

Other information : None.

Classification according to Regulation (EC) No. 1272/2008 [CLP]:	
Flam. Liq. 3	H226
Skin Irrit. 2	H315
Skin Sens. 1	H317
Asp. Tox. 1	H304
Aquatic Chronic 1	H410

Full text of H- and EUH-phrases:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1

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Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 1	Flammable liquids Category 1
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, Category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H224	Extremely flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic 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.

Safety Data Sheet (SDS), New Zealand

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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 support@zenaroma.co.nz