

**SECTION 1: Identification of the hazardous chemical and of the supplier****1.1 Product identifier**

Product name : Lychee Guava Sorbet # :  
Product form Mixture  
Product code :

**1.2 Other means of identification**

No additional information available

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

Recommended use : Perfumes, fragrances

**1.4 Supplier's details**

ZEN AROMA  
22c Portside Drive  
Mt Maunganui, 3116  
New Zealand  
PH: 07 578 4755  
support@zenaroma.co.nz

**1.5. Emergency phone number**

Emergency number 0800 764 766 NZ Poisons Centre

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

3.1D Flammable liquids, Category 4  
6.3A Skin corrosion/irritation, Category 2  
6.4A Serious eye damage/eye irritation, Category 2  
6.5B 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  
9.3C Ecotoxicity to terrestrial vertebrates C

**2.2. Label elements****GHS NZ labelling**

Hazard pictograms (GHS NZ) :



Signal word (GHS NZ) :

Warning

Contains

: Hexyl cinnamic aldehyde (3.09 – 6.18 %) ; Linalool (2.73 – 5.46 %) ; Orange oil (2.575 – 5.15 %) ; Linalyl acetate (2.025 – 4.05 %) ; Aldehyde C-16 (1.09 – 2.18 %) ; Cyclamal (1.03 – 2.06 %) ; d-Limonene (0.86 – 1.72 %) ; Citral (0.67 – 1.34 %) ; Nerol (0.535 – 1.07 %) ; Geraniol (0.25 – 0.5 %) ; Citronellol Pure (0.175 – 0.35 %) ; Triplal (Vertocitral) (0.09 – 0.18 %) ; Dipentene (0.07 – 0.14 %) ; Lime oil distilled (0.07 – 0.14 %) ; alpha-Pinene (0.06 – 0.12 %) ; Geranyl acetate (0.055 – 0.11 %)

Hazard statements (GHS NZ) :

: H227 - Combustible liquid  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H401 - Toxic to aquatic life

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Prevention	H411 - Toxic to aquatic life with long lasting effects. H433 - Harmful to terrestrial vertebrates : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P264 - Wash hands thoroughly after handling P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Response	: P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 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
Hexyl cinnamic aldehyde	CAS-No.: 101-86-0	3.09 – 6.18	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
Linalool	CAS-No.: 78-70-6	2.73 – 5.46	3.1D: Flam. Liq. 4, H227 6.3A: Skin Irrit. 2, H315 6.4A: Eye Irrit. 2, H319 6.5B: Skin Sens. 1, H317
Orange oil	CAS-No.: 8008-57-9	2.575 – 5.15	3.1C: Flam. Liq. 3, H226 6.1E: Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal) 6.3A: Skin Irrit. 2, H315 6.5B: Skin Sens. 1, H317 6.1E: Asp. Tox. 1, H304 9.1B: Aquatic Chronic 2, H411
Verdox	CAS-No.: 88-41-5	2.565 – 5.13	9.1B: Aquatic Chronic 2, H411
Linalyl acetate	CAS-No.: 115-95-7	2.025 – 4.05	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
Aldehyde C-14	CAS-No.: 104-67-6	1.985 – 3.97	Flam. Liq. Not classified Acute Tox. Not classified (Oral) 9.1D: Aquatic Acute 2, H401 9.1C: Aquatic Chronic 3, H412
Veltol plus crystals	CAS-No.: 4940-11-8	1.49 – 2.98	9.3C: Ecotoxicity to terrestrial vertebrates C, H433 6.1D: Acute Tox. 4 (Oral), H302 Aquatic Acute Not classified

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Name	Product identifier	%	Classification according to GHS NZ
Aldehyde C-16	CAS-No.: 77-83-8	1.09 – 2.18	Flam. Liq. Not classified Acute Tox. Not classified (Oral) 6.5B: Skin Sens. 1, H317 9.1D: Aquatic Acute 2, H401 9.1B: Aquatic Chronic 2, H411
Cyclamal	CAS-No.: 103-95-7	1.03 – 2.06	3.1D: Flam. Liq. 4, H227 6.1E: Acute Tox. 5 (Oral), H303 6.3A: Skin Irrit. 2, H315 6.5B: Skin Sens. 1, H317 9.1B: Aquatic Chronic 2, H411
d-Limonene	CAS-No.: 5989-27-5	0.86 – 1.72	3.1C: Flam. Liq. 3, H226 6.1E: Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal) 6.3A: Skin Irrit. 2, H315 6.5B: Skin Sens. 1, H317 6.1E: Asp. Tox. 1, H304 9.1A: Aquatic Acute 1, H400 9.1A: Aquatic Chronic 1, H410
Styralyl acetate	CAS-No.: 93-92-5	0.745 – 1.49	3.1D: Flam. Liq. 4, H227 Acute Tox. Not classified (Oral) 9.1D: Aquatic Acute 3, H402
Citral	CAS-No.: 5392-40-5	0.67 – 1.34	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
Benzyl butyrate	CAS-No.: 103-37-7	0.66 – 1.32	Flam. Liq. Not classified 6.1D: Acute Tox. 4 (Oral), H302
Allyl heptanoate	CAS-No.: 142-19-8	0.595 – 1.19	9.3B: Ecotoxicity to terrestrial vertebrates B, H432 3.1D: Flam. Liq. 4, H227 6.1D: Acute Tox. 4 (Oral), H302 6.1C: Acute Tox. 3 (Dermal), H311 9.1A: Aquatic Acute 1, H400 9.1C: Aquatic Chronic 3, H412
Nerol	CAS-No.: 106-25-2	0.535 – 1.07	Flam. Liq. Not classified 6.1E: Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal) 6.3A: Skin Irrit. 2, H315 8.3A: Eye Dam. 1, H318 6.5B: Skin Sens. 1, H317 9.1D: Aquatic Acute 3, H402
Verdyl propionate	CAS-No.: 68912-13-0	0.535 – 1.07	9.1D: Aquatic Acute 2, H401 9.1B: Aquatic Chronic 2, H411
Diphenyl oxide	CAS-No.: 101-84-8	0.495 – 0.99	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

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Name	Product identifier	%	Classification according to GHS NZ
Allyl caproate	CAS-No.: 123-68-2	0.27 – 0.54	3.1D: Flam. Liq. 4, H227 6.1C: Acute Tox. 3 (Oral), H301 6.1C: Acute Tox. 3 (Dermal), H311 9.1A: Aquatic Acute 1, H400 9.1C: Aquatic Chronic 3, H412
Geraniol	CAS-No.: 106-24-1	0.25 – 0.5	Flam. Liq. Not classified 6.1E: Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal) 6.3A: Skin Irrit. 2, H315 8.3A: Eye Dam. 1, H318 6.5B: Skin Sens. 1, H317 9.1D: Aquatic Acute 3, H402
Citronellol Pure	CAS-No.: 106-22-9	0.175 – 0.35	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
Triplal (Vertocitral)	CAS-No.: 68039-49-6	0.09 – 0.18	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
Dipentene	CAS-No.: 138-86-3	0.07 – 0.14	3.1C: Flam. Liq. 3, H226 Acute Tox. Not classified (Oral) 6.3A: Skin Irrit. 2, H315 6.5B: Skin Sens. 1, H317 9.1A: Aquatic Acute 1, H400 9.1A: Aquatic Chronic 1, H410
Lime oil distilled	CAS-No.: 8008-26-2	0.07 – 0.14	3.1C: Flam. Liq. 3, H226 Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) 6.3A: Skin Irrit. 2, H315 6.5B: Skin Sens. 1, H317 6.1E: Asp. Tox. 1, H304 9.1A: Aquatic Chronic 1, H410
alpha-Pinene	CAS-No.: 80-56-8	0.06 – 0.12	3.1C: Flam. Liq. 3, H226 6.1E: Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal) 6.3A: Skin Irrit. 2, H315 6.5B: Skin Sens. 1, H317 6.1E: Asp. Tox. 1, H304 9.1A: Aquatic Acute 1, H400
Geranyl acetate	CAS-No.: 105-87-3	0.055 – 0.11	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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing.

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.

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- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

- Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Eye irritation.

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

- Other medical advice or treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Combustible liquid.
- Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Special protective equipment and precautions for fire-fighters

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

#### 6.1.2. For emergency responders

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

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage.
- Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.
- Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>alpha-Pinene (80-56-8)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA [ppm]	20 ppm (Turpentine and selected monoterpenes)
ACGIH chemical category	Not Classifiable as a Human Carcinogen, dermal sensitizer
<b>Citral (5392-40-5)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA [ppm]	5 ppm (inhalable fraction and vapor)
ACGIH chemical category	Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer
<b>d-Limonene (5989-27-5)</b>	
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA) [1]	28 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
AGW (OEL TWA) [2]	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, Skin sensitization
<b>Diphenyl oxide (101-84-8)</b>	
<b>New Zealand - Occupational Exposure Limits</b>	
WES-TWA (OEL TWA) [1]	7 mg/m <sup>3</sup> (vapour)
WES-TWA (OEL TWA) [2]	1 ppm (vapour)
WES-STEL (OEL STEL)	14 mg/m <sup>3</sup> (vapour)
WES-STEL (OEL STEL) [ppm]	2 ppm (vapour)
<b>Malaysia - Occupational Exposure Limits</b>	
PEL (OEL TWA) [1]	7 mg/m <sup>3</sup> (vapor)
PEL (OEL TWA) [2]	1 ppm (vapor)
<b>China - Occupational Exposure Limits</b>	
OEL PC-TWA	7 mg/m <sup>3</sup>
OEL PC-STEL	14 mg/m <sup>3</sup>
Catalogue of Occupational Hazard Factors	Category 3 - Chemicals
<b>Korea - Occupational Exposure Limits</b>	
ISHA OEL TWA [ppm]	1 ppm (vapor)
ISHA OEL STEL [ppm]	2 ppm (vapor)
<b>Singapore - Occupational Exposure Limits</b>	
PEL (OEL TWA)	7 mg/m <sup>3</sup>
PEL (OEL TWA) [ppm]	1 ppm
OEL STEL	14 mg/m <sup>3</sup>

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Diphenyl oxide (101-84-8)	
OEL STEL [ppm]	2 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	7.1 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-vapor)
AGW (OEL TWA) [2]	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 (OEL TWA) [1]	7.1 mg/m <sup>3</sup> (vapour)
WEL TWA (OEL TWA) [2]	1 ppm (vapour)
WEL STEL (OEL STEL)	21.3 mg/m <sup>3</sup> (calculated-vapour)
WEL STEL (OEL STEL) [ppm]	3 ppm (calculated-vapour)
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	1 ppm (vapor)
ACGIH OEL STEL [ppm]	2 ppm (vapor fraction)

### 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 : Protective gloves  
Eye protection : Safety glasses  
Skin and body protection : Wear suitable protective clothing  
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

### 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 : No data available  
Odour : No data available  
Odour threshold : No additional information available  
pH : No additional information available  
Evaporation rate : No additional information available  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point / Freezing point : Melting point: Not applicable  
Boiling point : No data available  
Flash point : 72 °C (closed cup) ASTM D7094  
Auto-ignition temperature : No data available  
Flammability (solid, gas) : Not applicable  
Vapour pressure : No additional information available

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Relative density	: No additional information available
Density	: Relative density: 0.95
Solubility	: No additional information 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 additional information 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	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
Incompatible materials	: No additional information available
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Allyl caproate (123-68-2)	
LD50 oral	300 mg/kg bodyweight
LD50 dermal rabbit	820 mg/kg
LD50 dermal	300 mg/kg bodyweight
LC50 Inhalation - Rat (Vapours)	3 mg/l/4h
Aldehyde C-14 (104-67-6)	
LD50 oral rat	18500 mg/kg
LD50 dermal rat	> 2000 mg/kg
Aldehyde C-16 (77-83-8)	
LD50 oral rat	5470 mg/kg
LD50 dermal rat	> 2000 mg/kg
Allyl heptanoate (142-19-8)	
LD50 oral rat	500 mg/kg
LD50 oral	218 mg/kg bodyweight
LD50 dermal rabbit	810 mg/kg
LD50 dermal	810 mg/kg bodyweight
Benzyl butyrate (103-37-7)	
LD50 oral rat	2330 mg/kg
LD50 oral	1850 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg



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<b>alpha-Pinene (80-56-8)</b>	
LD50 oral rat	3700 mg/kg
LD50 oral	500 mg/kg bodyweight
LD50 dermal rat	> 5000 mg/kg
<b>Triplal (Vertocitral) (68039-49-6)</b>	
LD50 oral	3900 mg/kg bodyweight
<b>Citronelloi Pure (106-22-9)</b>	
LD50 oral rat	3450 mg/kg
LD50 oral	3450 mg/kg bodyweight
LD50 dermal rabbit	2650 mg/kg
LD50 dermal	2650 mg/kg bodyweight
<b>Citral (5392-40-5)</b>	
LD50 oral rat	4960 mg/kg
LD50 dermal rabbit	2250 mg/kg
LD50 dermal	2250 mg/kg bodyweight
<b>Cyclamal (103-95-7)</b>	
LD50 oral rat	3810 mg/kg
LD50 oral	3810 mg/kg bodyweight
LD50 dermal rat	> 5000 mg/kg
<b>d-Limonene (5989-27-5)</b>	
LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	> 5 g/kg
<b>Diphenyl oxide (101-84-8)</b>	
LD50 oral rat	2450 mg/kg
LD50 oral	2830 mg/kg bodyweight
LD50 dermal rabbit	> 7940 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	1.5 mg/l/4h
<b>Geraniol (106-24-1)</b>	
LD50 oral rat	3600 mg/kg
LD50 oral	3600 mg/kg bodyweight
LD50 dermal rabbit	> 5 g/kg
<b>Hexyl cinnamic aldehyde (101-86-0)</b>	
LD50 oral rat	3100 mg/kg
LD50 oral	3100 mg/kg bodyweight
LD50 dermal rabbit	> 3000 mg/kg
LC50 Inhalation - Rat	> 5 mg/l/4h
<b>Linalool (78-70-6)</b>	
LD50 oral	2790 mg/kg bodyweight

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<b>Linalyl acetate (115-95-7)</b>	
LD50 oral rat	14550 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
<b>Nerol (106-25-2)</b>	
LD50 oral rat	4500 mg/kg
LD50 oral	4500 mg/kg bodyweight
LD50 dermal rabbit	> 5 g/kg
<b>Orange oil (8008-57-9)</b>	
LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
<b>Styralyl acetate (93-92-5)</b>	
LD50 oral rat	> 5 g/kg
LD50 dermal rabbit	> 8 ml/kg
<b>Veltol plus crystals (4940-11-8)</b>	
LD50 oral rat	1150 mg/kg
LD50 oral	1200 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg
<b>Verdox (88-41-5)</b>	
LD50 oral rat	4600 mg/kg
LD50 oral	4600 mg/kg bodyweight
<b>Verdyl propionate (68912-13-0)</b>	
LD50 dermal rabbit	> 5000 mg/kg
<b>Dipentene (138-86-3)</b>	
LD50 oral rat	5300 mg/kg
<b>Geranyl acetate (105-87-3)</b>	
LD50 oral rat	6330 mg/kg
<b>Lime oil distilled (8008-26-2)</b>	
LD50 oral rat	5600 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
Skin corrosion/irritation	: Causes skin irritation.
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
<b>Lychee Guava Sorbet #</b>	
Viscosity, kinematic	

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	: 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	: Harmful to terrestrial vertebrates.
Terrestrial invertebrate toxicity	: Not classified

#### Allyl caproate (123-68-2)

LC50 - Fish [1]	0.117 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
LD50 dermal rabbit	820 mg/kg

#### Aldehyde C-14 (104-67-6)

LC50 - Fish [1]	569 mg/l 96 h
EC50 - Crustacea [1]	5.85 mg/l 48 h
EC50 - Other aquatic organisms [1]	5.94 mg/l 72 h
	> 2000 mg/kg
LD50 oral rat	18500 mg/kg

#### Aldehyde C-16 (77-83-8)

LC50 - Fish [1]	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
	> 2000 mg/kg
LD50 oral rat	5470 mg/kg

#### Allyl heptanoate (142-19-8)

LD50 dermal rabbit	810 mg/kg
LD50 oral rat	500 mg/kg

#### Benzyl butyrate (103-37-7)

LD50 dermal rabbit	> 5000 mg/kg
LD50 oral rat	2330 mg/kg

#### alpha-Pinene (80-56-8)

LC50 - Fish [1]	0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	41 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Partition coefficient n-octanol/water (Log Pow)	4.1
	> 5000 mg/kg
LD50 oral rat	3700 mg/kg

#### Citronellol Pure (106-22-9)

LD50 dermal rabbit	2650 mg/kg
LD50 oral rat	3450 mg/kg

#### Citral (5392-40-5)

EC50 - Crustacea [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)

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<b>Citral (5392-40-5)</b>	
LD50 dermal rabbit	2250 mg/kg
LD50 oral rat	4960 mg/kg
<b>Cyclamal (103-95-7)</b>	
	> 5000 mg/kg
LD50 oral rat	3810 mg/kg
<b>d-Limonene (5989-27-5)</b>	
LC50 - Fish [1]	0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 - Fish [2]	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
LD50 dermal rabbit	> 5 g/kg
LD50 oral rat	4400 mg/kg
<b>Diphenyl oxide (101-84-8)</b>	
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
<b>Geraniol (106-24-1)</b>	
LC50 - Fish [1]	22 mg/l (Exposure time: 96 h - Species: Danio rerio [static])
LD50 dermal rabbit	> 5 g/kg
LD50 oral rat	3600 mg/kg
<b>Hexyl cinnamic aldehyde (101-86-0)</b>	
LD50 dermal rabbit	> 3000 mg/kg
LD50 oral rat	3100 mg/kg
<b>Linalyl acetate (115-95-7)</b>	
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
<b>Nerol (106-25-2)</b>	
LC50 - Fish [1]	20.3 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
LD50 dermal rabbit	> 5 g/kg
LD50 oral rat	4500 mg/kg
<b>Orange oil (8008-57-9)</b>	
LD50 dermal rabbit	> 5000 mg/kg
LD50 oral rat	4400 mg/kg
<b>Styralyl acetate (93-92-5)</b>	
LC50 - Fish [1]	18.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
LD50 dermal rabbit	> 8 ml/kg
LD50 oral rat	> 5 g/kg

# Lychee Guava Sorbet #

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<b>Veltol plus crystals (4940-11-8)</b>	
LC50 - Fish [1]	> 85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
LD50 dermal rabbit	> 5000 mg/kg
LD50 oral rat	1150 mg/kg
<b>Verdox (88-41-5)</b>	
LD50 oral rat	4600 mg/kg
<b>Verdyl propionate (68912-13-0)</b>	
LC50 - Fish [1]	6.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LD50 dermal rabbit	> 5000 mg/kg
<b>Dipentene (138-86-3)</b>	
LD50 oral rat	5300 mg/kg
<b>Geranyl acetate (105-87-3)</b>	
LD50 oral rat	6330 mg/kg
<b>Lime oil distilled (8008-26-2)</b>	
LD50 dermal rabbit	> 5000 mg/kg
LD50 oral rat	5600 mg/kg
<b>12.2. Persistence and degradability</b>	
<b>Lychee Guava Sorbet #</b>	
Persistence and degradability	No additional information available
<b>12.3. Bioaccumulative potential</b>	
<b>Lychee Guava Sorbet #</b>	
Bioaccumulative potential	No additional information available
<b>alpha-Pinene (80-56-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.1
<b>Citral (5392-40-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.76 (at 25 °C)
<b>Diphenyl oxide (101-84-8)</b>	
BCF - Fish [1]	470
Partition coefficient n-octanol/water (Log Pow)	4.2
<b>12.4. Mobility in soil</b>	
<b>Lychee Guava Sorbet #</b>	
Mobility in soil	No additional information available
<b>alpha-Pinene (80-56-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.1
<b>Citral (5392-40-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.76 (at 25 °C)
<b>Diphenyl oxide (101-84-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.2

# Lychee Guava Sorbet #

## Safety Data Sheet

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### 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.

### SECTION 14: Transport information

#### 14.1. UN number

UN-No.(UN RTDG) : 3082  
UN-No. (IMDG) : 3082  
UN-No. (IATA) : 3082

#### 14.2. Proper Shipping Name

Proper Shipping Name (UN RTDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-Limonene)  
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-Limonene)  
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) : 9  
Danger labels (UN RTDG) : 9



##### 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) : III  
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

# Lychee Guava Sorbet #

## Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

### 14.6. Special precautions for user

#### UN RTDG

Special provisions (UN RTDG)	: 274, 331, 335, 375
Limited quantities (UN RTDG)	: 5L
Excepted quantities (UN RTDG)	: E1
Packing instruction (UN RTDG)	: P001, IBC03, LP01
Special packing provisions (UN RTDG)	: PP1
Portable tank and bulk container special instructions (UN RTDG)	: T4
Portable tank and bulk container special provisions (UN RTDG)	: TP1, TP29

#### IMDG

Special provisions (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, 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
Special provisions (IATA)	: A97, A158, A197, A215
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

Not applicable

## SECTION 15: Regulatory information

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

#### Hazardous Substances and New Organisms Act

Group standard : Food additives and fragrance materials

#### Aldehyde C-14 (104-67-6)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR003507
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#### Benzyl butyrate (103-37-7)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR007410
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# Lychee Guava Sorbet #

## Safety Data Sheet

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### alpha-Pinene (80-56-8)

#### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR001211
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### Triplal (Vertocitral) (68039-49-6)

#### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR003489
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### Citronellol Pure (106-22-9)

#### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR003483
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### Citral (5392-40-5)

#### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR002728
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### d-Limonene (5989-27-5)

#### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR002725
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### Diphenyl oxide (101-84-8)

#### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR003050
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### Geraniol (106-24-1)

#### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR003176
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### Linalool (78-70-6)

#### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR003500
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### Linalyl acetate (115-95-7)

#### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR003499
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### Orange oil (8008-57-9)

#### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR003493
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# Lychee Guava Sorbet #

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according to the Hazardous Substances and New Organisms Act (1996)

### Lime oil distilled (8008-26-2)

#### Hazardous Substances and New Organisms Act

HSNO Approval Number HSR004085

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Issue date : 8/30/2021

### Full text of H-statements

3.1C: Flam. Liq. 3	3.1C: Flammable liquids, Category 3
3.1D: Flam. Liq. 4	3.1D: Flammable liquids, Category 4
6.1C: Acute Tox. 3 (Dermal)	6.1C: Acute toxicity (dermal), Category 3
6.1C: Acute Tox. 3 (Oral)	6.1C: Acute toxicity (oral), Category 3
6.1D: Acute Tox. 4 (Inhalation:dust,mist)	6.1D: Acute toxicity (inhalation:dust,mist) 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
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
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
H226	Flammable liquid and vapour.
H227	Combustible liquid
H301	Toxic if swallowed.
H302	Harmful if swallowed.

# Lychee Guava Sorbet #

## Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Full text of H-statements	
H303	May be harmful if swallowed
H304	May be fatal if swallowed and enters airways.
H311	Toxic 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.
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

Safety Data Sheet (SDS), New Zealand

The data contained in this Safety Data Sheet is accurate to the best knowledge of Zen Aroma applies to the product as supplied by Zen Aroma and does not relate to use in combination

with any other material or in any process. Data and information is furnished without warranty expressed or implied, nor does Zen Aroma 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 [support@zenaroma.co.nz](mailto:support@zenaroma.co.nz)