

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

1.1 Product identifier

Product name : Wild Frangipani :
Product form Mixture
Product code : 46619F

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

6.1E	Flammable liquids Not classified
6.3A	Acute toxicity (oral), Category 5
6.4A	Skin corrosion/irritation, Category 2
6.5B	Serious eye damage/eye irritation, Category 2
6.8B	Skin sensitisation, Category 1
9.1D	Reproductive toxicity, Category 2
9.1C	Hazardous to the aquatic environment — Acute Hazard, Category 3
9.3B	Hazardous to the aquatic environment — Chronic Hazard, Category 3
	Ecotoxicity to terrestrial vertebrates B

2.2. Label elements

GHS NZ labelling

Hazard pictograms (GHS NZ) :



Signal word (GHS NZ) :

Warning

Contains

Benzyl acetate (5.975 – 11.95 %) ; Phenylethyl alcohol (4.03 – 8.06 %) ; Linalool (3.64 – 7.28 %) ; Hexyl cinnamic aldehyde (2.845 – 5.69 %) ; Benzyl benzoate (1.94 – 3.88 %) ; 2-Hydroxybenzoic acid, benzyl ester (1.455 – 2.91 %) ; Linalyl acetate (1.41 – 2.82 %) ; Dihydromyrcenol (1.22 – 2.44 %) ; Exaltolide (0.585 – 1.17 %) ; Indoflor crystals (0.585 – 1.17 %) ; Eugenol (0.485 – 0.97 %) ; Isoeugenol (0.42 – 0.84 %) ; d-Limonene (0.27 – 0.54 %) ; Cyclamal (0.145 – 0.29 %) ; para-Cresyl methyl ether (0.08 – 0.16 %) ; Citronellol Pure (0.075 – 0.15 %) ; Geranyl acetate (0.075 – 0.15 %) ; Hexyl salicylate (0.055 – 0.11 %)

Hazard statements (GHS NZ) :

H303 - May be harmful if swallowed
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.

Wild Frangipani

Safety Data Sheet

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

Prevention	H319 - Causes serious eye irritation. H361 - Suspected of damaging fertility or the unborn child. H412 - Harmful to aquatic life with long lasting effects. H432 - Toxic to terrestrial vertebrates : P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P264 - Wash hands thoroughly after handling P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment.
Response	: P308+P313 - IF exposed or concerned: Get medical advice/attention.

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 acetate	CAS-No.: 140-11-4	5.975 – 11.95	3.1D: Flam. Liq. 4, H227 6.1E: Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal) 9.1C: Aquatic Chronic 3, H412
Hedione	CAS-No.: 24851-98-7	5.385 – 10.77	Flam. Liq. Not classified Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) 9.1D: Aquatic Acute 3, H402
Phenylethyl alcohol	CAS-No.: 60-12-8	4.03 – 8.06	9.3C: Ecotoxicity to terrestrial vertebrates C, H433 Flam. Liq. Not classified 6.1D: Acute Tox. 4 (Oral), H302 6.1E: Acute Tox. 5 (Dermal), H313 6.4A: Eye Irrit. 2, H319 Aquatic Acute Not classified
Linalool	CAS-No.: 78-70-6	3.64 – 7.28	3.1D: Flam. Liq. 4, H227 6.3A: Skin Irrit. 2, H315 6.4A: Eye Irrit. 2, H319 6.5B: Skin Sens. 1, H317
Hexyl cinnamic aldehyde	CAS-No.: 101-86-0	2.845 – 5.69	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
Benzyl benzoate	CAS-No.: 120-51-4	1.94 – 3.88	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 9.3B: Ecotoxicity to terrestrial vertebrates B, H432
Styralyl acetate	CAS-No.: 93-92-5	1.795 – 3.59	3.1D: Flam. Liq. 4, H227 Acute Tox. Not classified (Oral) 9.1D: Aquatic Acute 3, H402

Wild Frangipani

Safety Data Sheet

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

Name	Product identifier	%	Classification according to GHS NZ
Terpinyl acetate	CAS-No.: 80-26-2	1.59 – 3.18	Flam. Liq. Not classified Acute Tox. Not classified (Oral) Aquatic Acute Not classified 9.1B: Aquatic Chronic 2, H411
2-Hydroxybenzoic acid, benzyl ester	CAS-No.: 118-58-1	1.455 – 2.91	Flam. Liq. Not classified 6.1E: Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal) 6.5B: Skin Sens. 1, H317 9.1D: Aquatic Acute 2, H401 9.1C: Aquatic Chronic 3, H412
Linalyl acetate	CAS-No.: 115-95-7	1.41 – 2.82	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
Dihydromyrcenol	CAS-No.: 18479-58-8	1.22 – 2.44	3.1D: Flam. Liq. 4, H227 6.1E: Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal) 6.3A: Skin Irrit. 2, H315 6.4A: Eye Irrit. 2, H319
Exaltolide	CAS-No.: 106-02-5	0.585 – 1.17	Flam. Liq. Not classified Acute Tox. Not classified (Oral) 6.5B: Skin Sens. 1, H317 9.1B: Aquatic Chronic 2, H411
Indoflor crystals	CAS-No.: 18096-62-3	0.585 – 1.17	6.8B: Repr. 2, H361
Butylated hydroxytoluene (BHT) crystals	CAS-No.: 128-37-0	0.485 – 0.97	9.1A: Aquatic Acute 1, H400 9.1A: Aquatic Chronic 1, H410
Eugenol	CAS-No.: 97-53-0	0.485 – 0.97	9.3C: Ecotoxicity to terrestrial vertebrates C, H433 Flam. Liq. Not classified 6.1D: Acute Tox. 4 (Oral), H302 6.4A: Eye Irrit. 2, H319 6.5B: Skin Sens. 1, H317 9.1D: Aquatic Acute 3, H402
Isoeugenol	CAS-No.: 97-54-1	0.42 – 0.84	9.3C: Ecotoxicity to terrestrial vertebrates C, H433 Flam. Liq. Not classified 6.1D: Acute Tox. 4 (Oral), H302 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
d-Limonene	CAS-No.: 5989-27-5	0.27 – 0.54	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

Wild Frangipani

Safety Data Sheet

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

Name	Product identifier	%	Classification according to GHS NZ
Allyl heptanoate	CAS-No.: 142-19-8	0.25 – 0.5	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
Cyclamal	CAS-No.: 103-95-7	0.145 – 0.29	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
para-Cresyl methyl ether	CAS-No.: 104-93-8	0.08 – 0.16	9.3C: Ecotoxicity to terrestrial vertebrates C, H433 3.1D: Flam. Liq. 4, H227 6.1D: Acute Tox. 4 (Oral), H302 Acute Tox. Not classified (Dermal) 6.3A: Skin Irrit. 2, H315 6.8B: Repr. 2, H361 9.1D: Aquatic Acute 3, H402 9.1C: Aquatic Chronic 3, H412
Citronellol Pure	CAS-No.: 106-22-9	0.075 – 0.15	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
Geranyl acetate	CAS-No.: 105-87-3	0.075 – 0.15	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
Hexyl salicylate	CAS-No.: 6259-76-3	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 9.1A: Aquatic Chronic 1, H410

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.
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.
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	: Rinse mouth. 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.

Wild Frangipani

Safety Data Sheet

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

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

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. 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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

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

7.2. Conditions for safe storage, including any incompatibilities

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

Wild Frangipani

Safety Data Sheet

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Benzyl acetate (140-11-4)	
Malaysia - Occupational Exposure Limits	
PEL (OEL TWA) [1]	61 mg/m ³
PEL (OEL TWA) [2]	10 ppm
China - Occupational Exposure Limits	
Catalogue of Occupational Hazard Factors	Category 3 - Chemicals
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	10 ppm
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Butylated hydroxytoluene (BHT) crystals (128-37-0)	
New Zealand - Occupational Exposure Limits	
WES-TWA (OEL TWA) [1]	10 mg/m ³
Chemical category	dermal sensitiser
Malaysia - Occupational Exposure Limits	
PEL (OEL TWA) [1]	10 mg/m ³
Korea - Occupational Exposure Limits	
ISHA OEL TWA	2 mg/m ³
Singapore - Occupational Exposure Limits	
PEL (OEL TWA)	10 mg/m ³
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	10 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	10 mg/m ³
WEL STEL (OEL STEL)	30 mg/m ³ (calculated)
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2 mg/m ³ (inhalable fraction and vapor)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
d-Limonene (5989-27-5)	
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	28 mg/m ³ (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
Phenylethyl alcohol (60-12-8)	
China - Occupational Exposure Limits	
Catalogue of Occupational Hazard Factors	Category 3 - Chemicals

Exposure limit values for the other components

No additional information available

Wild Frangipani

Safety Data Sheet

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

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 inadequate ventilation] wear respiratory protection.

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 : > 93 °C (closed cup) ASTM D7094
Auto-ignition temperature : No data available
Flammability (solid, gas) : Not applicable
Vapour pressure : No additional information available
Relative density : No additional information available
Density : Relative density: 1.01
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 : None under recommended storage and handling conditions (see section 7).
Incompatible materials : No additional information available
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Wild Frangipani

Safety Data Sheet

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : May be harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

ATE NZ (oral)	4675.416 mg/kg bodyweight
---------------	---------------------------

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 acetate (140-11-4)

LD50 oral rat	2490 mg/kg
LD50 oral	2490 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg

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

Butylated hydroxytoluene (BHT) crystals (128-37-0)

LD50 oral rat	> 2930 mg/kg
LD50 dermal rat	> 2000 mg/kg

2-Hydroxybenzoic acid, benzyl ester (118-58-1)

LD50 oral rat	2227 mg/kg
LD50 oral	2200 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg

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

Dihydromyrcenol (18479-58-8)

LD50 oral rat	3600 mg/kg
LD50 oral	3600 mg/kg bodyweight
LD50 dermal rabbit	> 5 g/kg

d-Limonene (5989-27-5)

LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	> 5 g/kg

Wild Frangipani

Safety Data Sheet

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

Eugenol (97-53-0)	
LD50 oral rat	1930 mg/kg
LD50 oral	2500 mg/kg bodyweight
Exaltolide (106-02-5)	
LD50 oral rat	> 5 g/kg
Geranyl acetate (105-87-3)	
LD50 oral rat	6330 mg/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	> 5 mg/l/4h
Hedione (24851-98-7)	
LD50 oral rat	> 5 g/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	> 4.93 mg/l/4h
Isoeugenol (97-54-1)	
LD50 oral rat	1560 mg/kg
LD50 oral	1500 mg/kg bodyweight
LD50 dermal	1912 mg/kg bodyweight
Indoflor crystals (18096-62-3)	
LD50 oral	2500 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg
Linalool (78-70-6)	
LD50 oral	2790 mg/kg bodyweight
Linalyl acetate (115-95-7)	
LD50 oral rat	14550 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
para-Cresyl methyl ether (104-93-8)	
LD50 oral rat	1920 mg/kg
LD50 oral	1900 mg/kg bodyweight
LD50 dermal rabbit	> 5 g/kg
LC50 Inhalation - Rat	> 6.1 mg/l/4h
Phenylethyl alcohol (60-12-8)	
LD50 oral rat	1609 mg/kg
LD50 oral	1610 mg/kg bodyweight
LD50 dermal rabbit	2535 mg/kg
LD50 dermal	2500 mg/kg bodyweight
LC50 Inhalation - Rat	> 4.63 mg/l/4h

Wild Frangipani

Safety Data Sheet

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

Styralyl acetate (93-92-5)	
LD50 oral rat	> 5 g/kg
LD50 dermal rabbit	> 8 ml/kg
Terpinyl acetate (80-26-2)	
LD50 oral rat	5075 mg/kg
Hexyl salicylate (6259-76-3)	
LD50 oral rat	> 5 g/kg
LD50 dermal rabbit	> 5000 mg/kg
Cyclamal (103-95-7)	
LD50 oral rat	3810 mg/kg
LD50 oral	3810 mg/kg bodyweight
LD50 dermal rat	> 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	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Wild Frangipani	
Viscosity, kinematic	

SECTION 12: Ecological information

12.1. Toxicity

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

Allyl heptanoate (142-19-8)	
LD50 dermal rabbit	810 mg/kg
LD50 oral rat	500 mg/kg
Benzyl acetate (140-11-4)	
Partition coefficient n-octanol/water (Log Pow)	1.96
LD50 dermal rabbit	> 5000 mg/kg
LD50 oral rat	2490 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

Wild Frangipani

Safety Data Sheet

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

Benzyl benzoate (120-51-4)	
LD50 dermal rabbit	4000 mg/kg
LD50 oral rat	500 mg/kg
Butylated hydroxytoluene (BHT) crystals (128-37-0)	
EC50 72h - Algae [1]	6 mg/l (Species: Pseudokirchneriella subcapitata)
EC50 72h - Algae [2]	> 0.42 mg/l (Species: Desmodesmus subspicatus)
BCF - Fish [1]	230 – 2500
Partition coefficient n-octanol/water (Log Pow)	4.17
	> 2000 mg/kg
LD50 oral rat	> 2930 mg/kg
2-Hydroxybenzoic acid, benzyl ester (118-58-1)	
LC50 - Fish [1]	1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
LD50 dermal rabbit	> 5000 mg/kg
LD50 oral rat	2227 mg/kg
Citronellol Pure (106-22-9)	
LD50 dermal rabbit	2650 mg/kg
LD50 oral rat	3450 mg/kg
Dihydromyrcenol (18479-58-8)	
LD50 dermal rabbit	> 5 g/kg
LD50 oral rat	3600 mg/kg
d-Limonene (5989-27-5)	
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
Eugenol (97-53-0)	
LC50 - Fish [1]	13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
LD50 oral rat	1930 mg/kg
Exaltolide (106-02-5)	
LD50 oral rat	> 5 g/kg
Geranyl acetate (105-87-3)	
LD50 oral rat	6330 mg/kg
Hexyl cinnamic aldehyde (101-86-0)	
LD50 dermal rabbit	> 3000 mg/kg
LD50 oral rat	3100 mg/kg
Hedione (24851-98-7)	
LC50 - Fish [1]	19 mg/l (Exposure time: 96 h - Species: Oryzias latipes [semi-static])
LD50 dermal rabbit	> 5000 mg/kg
LD50 oral rat	> 5 g/kg

Wild Frangipani

Safety Data Sheet

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

Isoeugenol (97-54-1)	
LD50 oral rat	1560 mg/kg
Indoflor crystals (18096-62-3)	
	> 2000 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
para-Cresyl methyl ether (104-93-8)	
EC50 - Crustacea [1]	44.2 mg/l (Exposure time: 48 h - Species: Daphnia magna Straus)
EC50 72h - Algae [1]	320 mg/l (Species: Desmodesmus subspicatus)
Partition coefficient n-octanol/water (Log Pow)	2.659
LD50 dermal rabbit	> 5 g/kg
LD50 oral rat	1920 mg/kg
Phenylethyl alcohol (60-12-8)	
EC50 - Crustacea [1]	287.17 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	490 mg/l (Species: Desmodesmus subspicatus)
Partition coefficient n-octanol/water (Log Pow)	1.38 (at 25 °C)
LD50 dermal rabbit	2535 mg/kg
LD50 oral rat	1609 mg/kg
Styralyl acetate (93-92-5)	
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
Terpinyl acetate (80-26-2)	
LC50 - Fish [1]	> 11 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LD50 oral rat	5075 mg/kg
Hexyl salicylate (6259-76-3)	
LD50 dermal rabbit	> 5000 mg/kg
LD50 oral rat	> 5 g/kg
Cyclamal (103-95-7)	
	> 5000 mg/kg
LD50 oral rat	3810 mg/kg
12.2. Persistence and degradability	
Wild Frangipani	
Persistence and degradability	No additional information available
Benzyl benzoate (120-51-4)	
Persistence and degradability	May cause long-term adverse effects in the environment.

Wild Frangipani

Safety Data Sheet

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

12.3. Bioaccumulative potential

Wild Frangipani

Bioaccumulative potential No additional information available

Benzyl acetate (140-11-4)

Partition coefficient n-octanol/water (Log Pow) 1.96

Benzyl benzoate (120-51-4)

Partition coefficient n-octanol/water (Log Pow) 4

Bioaccumulative potential Not established.

Butylated hydroxytoluene (BHT) crystals (128-37-0)

BCF - Fish [1] 230 – 2500

Partition coefficient n-octanol/water (Log Pow) 4.17

para-Cresyl methyl ether (104-93-8)

Partition coefficient n-octanol/water (Log Pow) 2.659

Phenylethyl alcohol (60-12-8)

Partition coefficient n-octanol/water (Log Pow) 1.38 (at 25 °C)

12.4. Mobility in soil

Wild Frangipani

Mobility in soil No additional information available

Benzyl acetate (140-11-4)

Partition coefficient n-octanol/water (Log Pow) 1.96

Benzyl benzoate (120-51-4)

Partition coefficient n-octanol/water (Log Pow) 4

Butylated hydroxytoluene (BHT) crystals (128-37-0)

Partition coefficient n-octanol/water (Log Pow) 4.17

para-Cresyl methyl ether (104-93-8)

Partition coefficient n-octanol/water (Log Pow) 2.659

Phenylethyl alcohol (60-12-8)

Partition coefficient n-octanol/water (Log Pow) 1.38 (at 25 °C)

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

Not regulated for transport

Wild Frangipani

Safety Data Sheet

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

14.2. Proper Shipping Name

Proper Shipping Name (UN RTDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

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

IMDG
Transport hazard class(es) (IMDG) : Not applicable

IATA
Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (UN RTDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : False
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

UN RTDG
No data available

IMDG
No data available

IATA
No data available

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

Benzyl acetate (140-11-4)

Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR002908
----------------------	-----------

Benzyl benzoate (120-51-4)

Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR003504
----------------------	-----------

Wild Frangipani

Safety Data Sheet

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

Butylated hydroxytoluene (BHT) crystals (128-37-0)

Hazardous Substances and New Organisms Act

HSNO Approval Number HSR002784

2-Hydroxybenzoic acid, benzyl ester (118-58-1)

Hazardous Substances and New Organisms Act

HSNO Approval Number HSR003501

Citronellol Pure (106-22-9)

Hazardous Substances and New Organisms Act

HSNO Approval Number HSR003483

d-Limonene (5989-27-5)

Hazardous Substances and New Organisms Act

HSNO Approval Number HSR002725

Eugenol (97-53-0)

Hazardous Substances and New Organisms Act

HSNO Approval Number HSR003486

Isoeugenol (97-54-1)

Hazardous Substances and New Organisms Act

HSNO Approval Number HSR003794

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

Phenylethyl alcohol (60-12-8)

Hazardous Substances and New Organisms Act

HSNO Approval Number HSR003487

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Issue date : 8/31/2021

Wild Frangipani

Safety Data Sheet

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

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
6.1D: Acute Tox. 4 (Dermal)	6.1D: Acute toxicity (dermal), 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
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
H302	Harmful if swallowed.
H303	May be harmful if swallowed
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
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.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life

Wild Frangipani

Safety Data Sheet

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

Full text of H-statements	
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