

### SECTION 1: Identification

#### 1.1 Product identifier

Product name : Smoked Petals :  
Product form Mixture  
Product code :

#### 1.2 Other means of identification

No additional information available

#### 1.3 Recommended use of the chemical and restrictions on use

Recommended use : Perfumes, Fragrances

#### 1.4 Details of manufacturer or importer

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: Hazard identification

#### 2.1. Classification of the hazardous chemical

Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996)

Flammable liquids Category 4	H227
Serious eye damage/eye irritation, Category 2	H319
Skin sensitization, Category 1	H317
Hazardous to the aquatic environment - Chronic Hazard Category 2	H411

#### 2.2. GHS Label elements, including precautionary statements

##### GHS NZ labelling

Hazard pictograms (GHS NZ) :



Signal word (GHS NZ) :

Warning

Contains

Citronellol Pure (1.14 – 2.28 %); Geraniol (0.83 – 1.66 %); d-Limonene (0.8 – 1.6 %); Oils, fir (0.45 – 0.9 %); Triplal (Vertocitral) (0.425 – 0.85 %); Linalool (0.405 – 0.81 %); Lavandin abrialis oil (0.15 – 0.3 %); Methyl isoeugenol (0.09 – 0.18 %); Vertenex (0.05 – 0.1 %)

Hazard statements (GHS NZ) :

H227 - Combustible liquid  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H411 - Toxic to aquatic life with long lasting effects

Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.

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Response : P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.

### 2.3. Other hazards which do not result in classification

No additional information available

## SECTION 3: Composition and information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to GHS NZ
Cedarwood oil, Texas	CAS-No.: 68990-83-0	1.725 – 3.45	Asp. Tox. 1, H304 Aquatic Chronic 1, H410
Citronellol Pure	CAS-No.: 106-22-9	1.14 – 2.28	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Geraniol	CAS-No.: 106-24-1	0.83 – 1.66	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 3, H402
d-Limonene	CAS-No.: 5989-27-5	0.8 – 1.6	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Fir needle oil, Canadian	CAS-No.: 8021-28-1	0.45 – 0.9	Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Triplal (Vertocitral)	CAS-No.: 68039-49-6	0.425 – 0.85	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Linalool	CAS-No.: 78-70-6	0.405 – 0.81	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
2-Methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	CAS-No.: 28219-60-5	0.375 – 0.75	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400
Lavandin oil	CAS-No.: 8022-15-9	0.15 – 0.3	Flam. Liq. 4, H227 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Aldehyde C-12 MNA	CAS-No.: 110-41-8	0.1 – 0.2	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Methyl isoeugenol	CAS-No.: 93-16-3	0.09 – 0.18	Skin Sens. 1, H317

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Name	Product identifier	%	Classification according to GHS NZ
Benzyl benzoate	CAS-No.: 120-51-4	0.065 – 0.13	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Vertenex	CAS-No.: 32210-23-4	0.05 – 0.1	Skin Sens. 1, H317 Aquatic Acute 2, H401

### SECTION 4: First-aid measures

#### 4.1. Description of necessary 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.
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/doctor/physician if you feel unwell.

#### 4.2. Symptoms caused by exposure

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

#### 4.3. Medical attention and special treatment

Other medical advice or treatment	: Treat symptomatically.
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### SECTION 5: Fire-fighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
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#### 5.2. Specific hazards arising from the chemical

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.
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### 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/vapors/spray.
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##### 6.1.2. For emergency responders

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

Avoid release to the environment.

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### 6.3. Methods and materials 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/vapors/spray.  
Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. 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 in a well-ventilated place. Keep cool.

## SECTION 8: Exposure controls and personal protection

### 8.1. Control parameters - exposure standards

#### d-Limonene (5989-27-5)

##### Germany - Occupational Exposure Limits (TRGS 900)

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

#### Exposure limit values of other components

No additional information available

### 8.2. Monitoring methods

No additional information available

### 8.3. 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.

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### SECTION 9: Physical and chemical properties

Physical state	: Liquid
Appearance	: No data available
Color	: light yellow amber
Odor	: characteristic
Odor threshold	: No additional information available
pH	: No additional information available
Evaporation rate	: No additional information available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point / Freezing point	: Melting point: Not applicable
Boiling point	: No data available
Flash point	: 76 °C (closed cup) ASTM D7094
Auto-ignition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: No additional information available
Relative density	: No additional information available
Density	: Relative density: $\approx$ 1.08
Solubility	: No additional information available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Explosion 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: Transport hazard class(es)

#### 11.1. Toxicity

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

Geraniol (106-24-1)	
LD50 oral rat	3600 mg/kg
LD50 oral	3600 mg/kg body weight
LD50 dermal rabbit	> 5 g/kg

Citronellol Pure (106-22-9)	
LD50 oral rat	3450 mg/kg
LD50 oral	3450 mg/kg body weight
LD50 dermal rabbit	2650 mg/kg
LD50 dermal	2650 mg/kg body weight

d-Limonene (5989-27-5)	
LD50 oral rat	4400 mg/kg

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<b>d-Limonene (5989-27-5)</b>	
LD50 dermal rabbit	> 5 g/kg
<b>Triplal (Vertocitral) (68039-49-6)</b>	
LD50 oral	3900 mg/kg body weight
<b>Linalool (78-70-6)</b>	
LD50 oral	2790 mg/kg body weight
<b>Fir needle oil, Canadian (8021-28-1)</b>	
LD50 oral rat	> 5 g/kg
LD50 dermal rabbit	> 5 g/kg
<b>Aldehyde C-12 MNA (110-41-8)</b>	
LD50 oral rat	> 5 g/kg
LD50 dermal rabbit	> 10 ml/kg
<b>Vertenex (32210-23-4)</b>	
LD50 oral rat	5 g/kg
LD50 oral	3370 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg
<b>Lavandin oil (8022-15-9)</b>	
LD50 oral rat	> 5 g/kg
<b>Methyl isoeugenol (93-16-3)</b>	
LD50 oral rat	2500 mg/kg
LD50 oral	2500 mg/kg body weight
<b>Benzyl benzoate (120-51-4)</b>	
LD50 oral rat	500 mg/kg
LD50 oral	1500 mg/kg body weight
LD50 dermal rabbit	4000 mg/kg
LD50 dermal	4000 mg/kg body weight

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: 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

## SECTION 12: Document changes control

### 12.1. Ecotoxicity

Ecology - general	: 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 (chronic)	: Toxic to aquatic life with long lasting effects.
Soil toxicity	: Not classified

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Terrestrial vertebrate toxicity : Not classified  
Terrestrial invertebrate toxicity : Not classified

<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>Citronellol Pure (106-22-9)</b>	
LD50 dermal rabbit	2650 mg/kg
LD50 oral rat	3450 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>Fir needle oil, Canadian (8021-28-1)</b>	
LD50 dermal rabbit	> 5 g/kg
LD50 oral rat	> 5 g/kg
<b>Aldehyde C-12 MNA (110-41-8)</b>	
LC50 - Fish [1]	0.35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
LD50 dermal rabbit	> 10 ml/kg
LD50 oral rat	> 5 g/kg
<b>Vertenex (32210-23-4)</b>	
LC50 - Fish [1]	8.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
LD50 dermal rabbit	> 5000 mg/kg
LD50 oral rat	5 g/kg
<b>Lavandin oil (8022-15-9)</b>	
LD50 oral rat	> 5 g/kg
<b>Methyl isoeugenol (93-16-3)</b>	
LD50 oral rat	2500 mg/kg
<b>Benzyl benzoate (120-51-4)</b>	
LC50 - Fish [1]	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
NOEC (chronic)	0.168 mg/l
Partition coefficient n-octanol/water (Log Pow)	4
LD50 dermal rabbit	4000 mg/kg
LD50 oral rat	500 mg/kg

### 12.2. Persistence and degradability

<b>Smoked Petals</b>	
Persistence and degradability	No additional information available
<b>Cedarwood oil, Texas (68990-83-0)</b>	
Persistence and degradability	Not established.

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### Benzyl benzoate (120-51-4)

Persistence and degradability	May cause long-term adverse effects in the environment.
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### 12.3. Bioaccumulative potential

#### Smoked Petals

Bioaccumulative potential	No additional information available
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#### Cedarwood oil, Texas (68990-83-0)

Bioaccumulative potential	Not established.
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### Benzyl benzoate (120-51-4)

Partition coefficient n-octanol/water (Log Pow)	4
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Bioaccumulative potential	Not established.
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### 12.4. Mobility in soil

#### Smoked Petals

Mobility in soil	No additional information available
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### Benzyl benzoate (120-51-4)

Partition coefficient n-octanol/water (Log Pow)	4
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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. UN proper shipping name

Proper Shipping Name (UN RTDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cedarwood oil)  
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cedarwood oil)  
Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s. (Cedarwood oil)

### 14.3. Transport hazard class(es)

#### UN RTDG

Transport hazard class(es) (UN RTDG) : 9  
Hazard labels (UN RTDG) :



#### IMDG

Transport hazard class(es) (IMDG) : 9

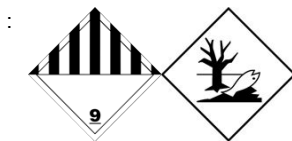


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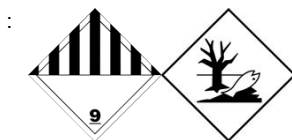
Hazard labels (IMDG) : 9



### IATA

Transport hazard class(es) (IATA) : 9

Hazard labels (IATA) : 9



### 14.4. Packing group

Packing group (UN RTDG) : III

Packing group (IMDG) : III

Packing group (IATA) : III

### 14.5. Emergency telephone number

Dangerous for the environment : True

Marine pollutant : Yes

Other information : No supplementary information available

### 14.6. Special precautions for user

#### Transport by road and rail

Special provision (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

#### Transport by sea

Special provision (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : LP01, P001

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

#### Air transport

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 provision (IATA) : A97, A158, A197, A215

ERG code (IATA) : 9L

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

### 14.7. Transport in bulk according to IMO instruments

Not applicable

### 14.8. Hazchem or Emergency Action Code

Not applicable

## SECTION 15: Regulatory information

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

#### Geraniol (106-24-1)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR003176
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#### Citronellol Pure (106-22-9)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR003483
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#### d-Limonene (5989-27-5)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR002725
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#### Triplal (Vertocitral) (68039-49-6)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR003489
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#### Linalool (78-70-6)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR003500
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#### Benzyl benzoate (120-51-4)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR003504
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### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Issue date : 1/31/2022

#### Full text of H-phrases

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment — Acute Hazard Category 2

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Full text of H-phrases	
Aquatic Acute 3	Hazardous to the aquatic environment — Acute Hazard Category 3
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
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
H226	Flammable liquid and vapour
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
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

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)