

**SECTION 1: Identification****1.1 Product identifier**

Product name : Black Opium :  
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)**

Skin corrosion/irritation Category 2	H315
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 : Hexyl cinnamic aldehyde (5.66 – 11.32 %); Hexyl salicylate (4.02 – 8.04 %); Benzyl salicylate (3.81 – 7.62 %); Iso E Super (3.425 – 6.85 %); Linalool (2.64 – 5.28 %); Vertenex (2.4 – 4.8 %); Linalyl acetate (1.275 – 2.55 %); Helional (0.405 – 0.81 %); Cyclamen aldehyde (0.34 – 0.68 %); Trimofix O (0.25 – 0.5 %); Cashmeran (0.13 – 0.26 %); HELIOTROPINE (0.12 – 0.24 %); d-Limonene (0.095 – 0.19 %); Geranyl acetate (0.09 – 0.18 %); 2-Buten-1-one, 1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-, (E)- (0.06 – 0.12 %)

Hazard statements (GHS NZ) : H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H411 - Toxic to aquatic life with long lasting effects

Prevention : P272 - Contaminated work clothing should not be allowed out of the workplace.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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Response : P302+P352 - IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
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
Hexyl cinnamic aldehyde	CAS-No.: 101-86-0	5.66 – 11.32	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Hexyl salicylate	CAS-No.: 6259-76-3	4.02 – 8.04	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410
Benzyl salicylate	CAS-No.: 118-58-1	3.81 – 7.62	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
Iso E Super	CAS-No.: 54464-57-2	3.425 – 6.85	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Ethylene brassylate	CAS-No.: 105-95-3	3.04 – 6.08	Aquatic Chronic 2, H411
Linalool	CAS-No.: 78-70-6	2.64 – 5.28	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Vertenex	CAS-No.: 32210-23-4	2.4 – 4.8	Skin Sens. 1, H317 Aquatic Acute 2, H401
Linalyl acetate	CAS-No.: 115-95-7	1.275 – 2.55	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Sandela	CAS-No.: 66068-84-6	0.725 – 1.45	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
Benzyl benzoate	CAS-No.: 120-51-4	0.72 – 1.44	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
.beta.-Ionone	CAS-No.: 14901-07-6	0.625 – 1.25	Aquatic Chronic 2, H411
Helional	CAS-No.: 1205-17-0	0.405 – 0.81	Flam. Liq. 4, H227 Skin Sens. 1, H317 Aquatic Chronic 3, H412
2-Methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	CAS-No.: 28219-60-5	0.405 – 0.81	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400

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Name	Product identifier	%	Classification according to GHS NZ
Cyclamen aldehyde	CAS-No.: 103-95-7	0.34 – 0.68	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Trimofix O	CAS-No.: 144020-22-4	0.25 – 0.5	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Cashmeran	CAS-No.: 33704-61-9	0.13 – 0.26	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 3, H402 Aquatic Chronic 2, H411
Cedarwood oil, Texas	CAS-No.: 68990-83-0	0.125 – 0.25	Asp. Tox. 1, H304 Aquatic Chronic 1, H410
HELIOTROPINE	CAS-No.: 120-57-0	0.12 – 0.24	Skin Sens. 1B, H317
d-Limonene	CAS-No.: 5989-27-5	0.095 – 0.19	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Geranyl acetate	CAS-No.: 105-87-3	0.09 – 0.18	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Nerolidol	CAS-No.: 7212-44-4	0.06 – 0.12	Eye Irrit. 2, H319 Aquatic Acute 1, H400
Damascone alpha- (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one (24720-09-0)	CAS-No.: 24720-09-0	0.06 – 0.12	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317

### SECTION 4: First-aid measures

#### 4.1. Description of necessary 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	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see Get medical advice/attention. on this label). If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center/doctor/physician if you feel unwell.

#### 4.2. Symptoms caused by exposure

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
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#### 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 : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

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

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

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. 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. Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

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

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

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

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

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

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. 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 : 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 : 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. Store in a well-ventilated place. Keep cool.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : 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.

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Packaging materials : Do not store in corrodable metal.

### 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)

Personal protective equipment : Avoid all unnecessary exposure.  
Hand protection : Wear protective gloves.  
Eye protection : Chemical goggles or safety glasses. Safety glasses  
Skin and body protection : Wear suitable protective clothing  
Respiratory protection : Wear appropriate mask

##### Personal protective equipment symbol(s)



Environmental exposure controls : Avoid release to the environment.  
Other information : Do not eat, drink or smoke during use.

### 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 : > 93 °C  
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: ≈ 1.06  
Solubility : No additional information available

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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	: Not established.
Possibility of hazardous reactions	: Not established.
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.
Incompatible materials	: Strong acids. Strong bases.
Hazardous decomposition products	: fume. Carbon monoxide. Carbon dioxide.

### SECTION 11: Transport hazard class(es)

#### 11.1. Toxicity

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

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	> 5 mg/l/4h

Ethylene brassylate (105-95-3)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

Benzyl salicylate (118-58-1)	
LD50 oral rat	2227 mg/kg
LD50 oral	2200 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg

Hexyl salicylate (6259-76-3)	
LD50 oral rat	> 5 g/kg
LD50 dermal rabbit	> 5000 mg/kg

Vertenex (32210-23-4)	
LD50 oral rat	5 g/kg
LD50 oral	3370 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg

Linalyl acetate (115-95-7)	
LD50 oral rat	14550 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

Sandela (66068-84-6)	
LD50 dermal rat	> 2000 mg/kg

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<b>Sandela (66068-84-6)</b>	
LC50 Inhalation - Rat	> 5.27 mg/l/4h
<b>Linalool (78-70-6)</b>	
LD50 oral	2790 mg/kg body weight
<b>Cyclamen aldehyde (103-95-7)</b>	
LD50 oral rat	3810 mg/kg
LD50 oral	3810 mg/kg body weight
LD50 dermal rat	> 5000 mg/kg
<b>Helional (1205-17-0)</b>	
LD50 dermal rabbit	> 2000 mg/kg
<b>Trimofix O (144020-22-4)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
<b>.beta.-Ionone (14901-07-6)</b>	
LD50 oral rat	4590 mg/kg
LD50 oral	3490 mg/kg body weight
<b>Cashmeran (33704-61-9)</b>	
LD50 oral	2900 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
<b>HELIOTROPINE (120-57-0)</b>	
LD50 oral rat	2700 mg/kg
LD50 oral	2700 mg/kg body weight
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>Geranyl acetate (105-87-3)</b>	
LD50 oral rat	6330 mg/kg
<b>Nerolidol (7212-44-4)</b>	
LD50 oral rat	> 5 g/kg
LD50 dermal rabbit	> 5000 mg/kg
<b>Damascone alpha- (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one (24720-09-0) (24720-09-0)</b>	
LD50 oral	1670 mg/kg body weight
LD50 dermal rat	2150 – 2780 mg/kg
LD50 dermal	2900 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.

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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

### Cashmeran (33704-61-9)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

## SECTION 12: Document changes control

### 12.1. Ecotoxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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
Terrestrial vertebrate toxicity	: Not classified
Terrestrial invertebrate toxicity	: Not classified
Other information	: Avoid release to the environment.

### Hexyl cinnamic aldehyde (101-86-0)

LD50 dermal rabbit	> 3000 mg/kg
LD50 oral rat	3100 mg/kg

### Ethylene brassylate (105-95-3)

Partition coefficient n-octanol/water (Log Pow)	4.3 (at 25 °C (at pH 6.4-7))
LD50 dermal rabbit	> 5000 mg/kg
LD50 oral rat	> 5000 mg/kg

### Benzyl salicylate (118-58-1)

LC50 - Fish [1]	1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
Partition coefficient n-octanol/water (Log Pow)	4
LD50 dermal rabbit	> 5000 mg/kg
LD50 oral rat	2227 mg/kg

### Hexyl salicylate (6259-76-3)

Partition coefficient n-octanol/water (Log Pow)	5.5 (at 30 °C (at pH 7))
LD50 dermal rabbit	> 5000 mg/kg
LD50 oral rat	> 5 g/kg

### Vertenex (32210-23-4)

LC50 - Fish [1]	8.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
Partition coefficient n-octanol/water (Log Pow)	4.8 (at 25 °C)
LD50 dermal rabbit	> 5000 mg/kg
LD50 oral rat	5 g/kg



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<b>Linalyl acetate (115-95-7)</b>	
LC50 - Fish [1]	11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through])
Partition coefficient n-octanol/water (Log Pow)	3.9 (at 25 °C)
LD50 dermal rabbit	> 5000 mg/kg
LD50 oral rat	14550 mg/kg
<b>Sandela (66068-84-6)</b>	
	> 2000 mg/kg
<b>Cyclamen aldehyde (103-95-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.4 (at 35 °C)
	> 5000 mg/kg
LD50 oral rat	3810 mg/kg
<b>Helional (1205-17-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.4 (at 25 °C)
LD50 dermal rabbit	> 2000 mg/kg
<b>Trimofix O (144020-22-4)</b>	
LC50 - Fish [1]	0.63 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
Partition coefficient n-octanol/water (Log Pow)	5.3 – 5.8 (at 25 °C (at pH >=7-<=7.3))
	> 2000 mg/kg
LD50 oral rat	> 5000 mg/kg
<b>.beta.-Ionone (14901-07-6)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.903 (at 27 °C (at pH 5.7))
LD50 oral rat	4590 mg/kg
<b>Cashmeran (33704-61-9)</b>	
LC50 - Fish [1]	10.3 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
BCF - Fish [1]	(81 dimensionless (whole body w.w.))
Partition coefficient n-octanol/water (Log Pow)	4.2 (at 20 °C)
<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)	3.97 (at 25 °C)
LD50 dermal rabbit	4000 mg/kg
LD50 oral rat	500 mg/kg
<b>HELIOTROPINE (120-57-0)</b>	
LC50 - Fish [1]	2.5 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static])
Partition coefficient n-octanol/water (Log Pow)	1.2 (at 35 °C)
	> 5000 mg/kg
LD50 oral rat	2700 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])

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<b>d-Limonene (5989-27-5)</b>	
LC50 - Fish [2]	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
Partition coefficient n-octanol/water (Log Pow)	4.38 (at 37 °C (at pH 7.2))
LD50 dermal rabbit	> 5 g/kg
LD50 oral rat	4400 mg/kg
<b>Geranyl acetate (105-87-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.04
LD50 oral rat	6330 mg/kg
<b>Nerolidol (7212-44-4)</b>	
LC50 - Fish [1]	1.3 – 1.58 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 - Fish [2]	1.4 – 2.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
Partition coefficient n-octanol/water (Log Pow)	4.5 (at 24 °C (at pH 7))
LD50 dermal rabbit	> 5000 mg/kg
LD50 oral rat	> 5 g/kg
<b>Damascone alpha- (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one (24720-09-0) (24720-09-0)</b>	
BCF - Fish [1]	(>8.4 - <20)
Partition coefficient n-octanol/water (Log Pow)	3.66 (at 25 °C (at pH 5.82))
	2150 – 2780 mg/kg

### 12.2. Persistence and degradability

<b>Black Opium</b>	
Persistence and degradability	Not established.
<b>Cedarwood oil, Texas (68990-83-0)</b>	
Persistence and degradability	Not established.
<b>Benzyl benzoate (120-51-4)</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.

### 12.3. Bioaccumulative potential

<b>Black Opium</b>	
Bioaccumulative potential	Not established.
<b>Ethylene brassylate (105-95-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.3 (at 25 °C (at pH 6.4-7))
<b>Benzyl salicylate (118-58-1)</b>	
Partition coefficient n-octanol/water (Log Pow)	4
<b>Hexyl salicylate (6259-76-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	5.5 (at 30 °C (at pH 7))
<b>Vertenex (32210-23-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.8 (at 25 °C)
<b>Linalyl acetate (115-95-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.9 (at 25 °C)

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<b>Cyclamen aldehyde (103-95-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.4 (at 35 °C)
<b>Helional (1205-17-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.4 (at 25 °C)
<b>Cedarwood oil, Texas (68990-83-0)</b>	
Bioaccumulative potential	Not established.
<b>Trimofix O (144020-22-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	5.3 – 5.8 (at 25 °C (at pH >=7-<=7.3))
<b>.beta.-Ionone (14901-07-6)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.903 (at 27 °C (at pH 5.7))
<b>Cashmeran (33704-61-9)</b>	
BCF - Fish [1]	(81 dimensionless (whole body w.w.))
Partition coefficient n-octanol/water (Log Pow)	4.2 (at 20 °C)
<b>Benzyl benzoate (120-51-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.97 (at 25 °C)
Bioaccumulative potential	Not established.
<b>HELIOTROPINE (120-57-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.2 (at 35 °C)
<b>d-Limonene (5989-27-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.38 (at 37 °C (at pH 7.2))
<b>Geranyl acetate (105-87-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.04
<b>Nerolidol (7212-44-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.5 (at 24 °C (at pH 7))
<b>Damascone alpha- (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one (24720-09-0) (24720-09-0)</b>	
BCF - Fish [1]	(>8.4 - <20)
Partition coefficient n-octanol/water (Log Pow)	3.66 (at 25 °C (at pH 5.82))
<b>12.4. Mobility in soil</b>	
<b>Black Opium</b>	
Mobility in soil	No additional information available
<b>Ethylene brassylate (105-95-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.3 (at 25 °C (at pH 6.4-7))
<b>Benzyl salicylate (118-58-1)</b>	
Partition coefficient n-octanol/water (Log Pow)	4
<b>Hexyl salicylate (6259-76-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	5.5 (at 30 °C (at pH 7))
<b>Vertenex (32210-23-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.8 (at 25 °C)

# Black Opium

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

<b>Linalyl acetate (115-95-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.9 (at 25 °C)
<b>Cyclamen aldehyde (103-95-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.4 (at 35 °C)
<b>Helional (1205-17-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.4 (at 25 °C)
<b>Trimofix O (144020-22-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	5.3 – 5.8 (at 25 °C (at pH $\geq 7$ - $\leq 7.3$ ))
<b>.beta.-Ionone (14901-07-6)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.903 (at 27 °C (at pH 5.7))
<b>Cashmeran (33704-61-9)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.2 (at 20 °C)
<b>Benzyl benzoate (120-51-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.97 (at 25 °C)
<b>HELIOTROPINE (120-57-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.2 (at 35 °C)
<b>d-Limonene (5989-27-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.38 (at 37 °C (at pH 7.2))
<b>Geranyl acetate (105-87-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.04
<b>Nerolidol (7212-44-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.5 (at 24 °C (at pH 7))
<b>Damascone alpha- (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one (24720-09-0) (24720-09-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.66 (at 25 °C (at pH 5.82))

### 12.5. Other adverse effects

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

## SECTION 13: Disposal considerations

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

## 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.
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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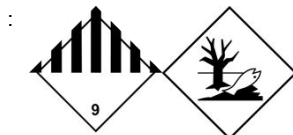
Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s.

### 14.3. Transport hazard class(es)

#### UN RTDG

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

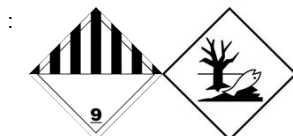
Hazard labels (UN RTDG) : 9



#### IMDG

Transport hazard class(es) (IMDG) : 9

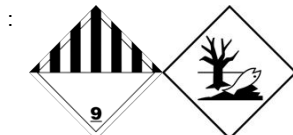
Hazard labels (IMDG) : 9



#### 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

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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

### 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

#### Benzyl salicylate (118-58-1)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR003501
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#### Linalyl acetate (115-95-7)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR003499
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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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#### d-Limonene (5989-27-5)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR002725
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### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Issue date : 7/11/2022

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Other information : None.

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
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 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
Skin Sens. 1B	Skin sensitization, Category 1B
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
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
H319	Causes serious eye irritation
H373	May cause damage to organs through prolonged or repeated exposure
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

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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](mailto:support@zenaroma.co.nz)