

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Trade name : YLANG & FLORA 813387 BB
Type of product : Perfumes, Fragrances
Product group : Trade product

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

Use of the substance/mixture : Perfumes, Fragrances

1.3. Supplier's details

Manufacturer

Sensetek
24 Village Crescent
Linbro Business Park, Sandton
P.O. Box PO Box 2598
2065 Gauteng,
T +27 11 608 4944/5
sales@sensetek.biz - www.sensetek.co.za

1.4. Emergency telephone number

Emergency number : +27 83 382 1905

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Flammable liquids, Category 4	H227
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2A	H319
Skin sensitisation, Category 1	H317
Reproductive toxicity, Category 2	H361
Hazardous to the aquatic environment — Acute Hazard, Category 2	H401
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411

Full text of H statements : see section 16

2.2. Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS ZA) :



Signal word (GHS-ZA) : Warning

Hazardous ingredients : Linalool; p-Methylanisole; GERANIOL; Geranyl acetate; BENZYL SALICYLATE; LINALYL ACETATE; d-Limonene; Acetyl cedrene; TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES; Methyl-beta-ionone; omega-Pentadecalactone; l-.beta.-Pinene; Citral; p-Mentha-1,4-diene; dl-Citronellol; alpha-Pinene; Eucalyptol; Geraniol; Nerol; (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one; p-t-Butyl-alpha-methylhydrocinnamic aldehyde; Terpinolene; 2,4-Dimethyl-3-cyclohexen-1-carboxaldehyde; Isohexenyl cyclohexenyl carboxaldehyde; 2-Hexyl-(E)-cinnamaldehyde; alpha-Amyl trans-Cinnamaldehyde; Linalool; BENZYL SALICYLATE; 4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxine; Hydroxycitronellal; Benzyl cinnamate; Cinnamyl alcohol

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According to SANS 10234:2019 and SANS 11014:2010

Hazard statements (GHS ZA)	: H227 - Combustible liquid 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. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (GHS ZA)	: P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 - Avoid breathing fume, mist, spray, vapours. P264 - Wash hands, face thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear eye protection, protective clothing, protective gloves. 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. P308+P313 - IF exposed or concerned: Get medical advice. P321 - Specific treatment (see supplemental first aid instruction on this label). P332+P313 - If skin irritation occurs: Get medical attention. P333+P313 - If skin irritation or rash occurs: Get medical attention. P337+P313 - If eye irritation persists: Get medical attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P370+P378 - In case of fire: Use carbon dioxide (CO ₂), dry extinguishing powder, foam to extinguish. P391 - Collect spillage. P403 - Store in a well-ventilated place. P405 - Store locked up. P501 - Dispose of contents to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Adverse physicochemical, human health and environmental effects	: Suspected of damaging fertility or the unborn child, Causes skin irritation, May cause an allergic skin reaction, Causes serious eye irritation, Toxic to aquatic life, Toxic to aquatic life with long lasting effects.
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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
Dihydromyrcenol	CAS-No.: 18479-58-8	3 – 6	Flam. Liq. 4, H227 Acute Tox. 5 (Oral), H303 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 3, H402
Benzyl acetate	CAS-No.: 140-11-4	2.3 – 3.9	Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Skin Irrit. 3, H316 Aquatic Acute 2, H401 Aquatic Chronic 3, H412

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According to SANS 10234:2019 and SANS 11014:2010

Name	Product identifier	%	Classification according to the United Nations GHS
Linalool	CAS-No.: 78-70-6	1.7 – 3.6	Flam. Liq. 4, H227 Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal) Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317 Aquatic Acute 3, H402
LINALYL ACETATE	CAS-No.: 115-95-7	1.5 – 3	Flam. Liq. 4, H227 Acute Tox. Not classified (Oral) Acute Tox. 5 (Dermal), H313 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1B, H317 Aquatic Acute 3, H402
2-Hexyl-(E)-cinnamaldehyde	CAS-No.: 165184-98-5	0.9 – 1.8	Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
HEXAMETHYLINDANOPYRAN	CAS-No.: 1222-05-5	0.318 – 1.68	Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal) Skin Irrit. 3, H316 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
d-Limonene	CAS-No.: 5989-27-5	0.3 – 1.5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Acetyl cedrene	CAS-No.: 32388-55-9	0.3 – 1.5	Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES	CAS-No.: 54464-57-2	0.3 – 1.5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 1, H410
Methyl-beta-ionone	CAS-No.: 127-43-5	0.3 – 1.5	Flam. Liq. Not classified Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
omega-Pentadecalactone	CAS-No.: 106-02-5	0.3 – 1.5	Flam. Liq. 4, H227 Skin Irrit. 3, H316 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Methyl benzoate	CAS-No.: 93-58-3	0.7 – 1.4	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302

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Name	Product identifier	%	Classification according to the United Nations GHS
alpha-Amyl trans-Cinnamaldehyde	CAS-No.: 78605-96-6	0.18 – 0.9	Flam. Liq. 4, H227 Acute Tox. 5 (Oral), H303 Skin Irrit. 3, H316 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Linalool	CAS-No.: 78-70-6	0.18 – 0.9	Flam. Liq. 4, H227 Acute Tox. 5 (Oral), H303 Skin Irrit. 2, H315 Skin Sens. 1B, H317
BENZYL SALICYLATE	CAS-No.: 118-58-1	0.18 – 0.9	Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Eye Irrit. 2B, H320 Skin Sens. 1B, H317 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
p-Methylanisole	CAS-No.: 104-93-8	0.368 – 0.88	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Repr. 2, H361 Aquatic Acute 3, H402
GERANIOL	CAS-No.: 106-24-1	0.368 – 0.88	Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Acute 3, H402
2,4-Dimethyl-3-cyclohexen-1-carboxaldehyde	CAS-No.: 68039-49-6	0.048 – 0.48	Flam. Liq. 4, H227 Acute Tox. 5 (Oral), H303 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Geranyl acetate	CAS-No.: 105-87-3	0.07 – 0.35	Flam. Liq. 4, H227 Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
BENZYL SALICYLATE	CAS-No.: 118-58-1	0.07 – 0.35	Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Eye Irrit. 2B, H320 Skin Sens. 1B, H317 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
l.-beta.-Pinene	CAS-No.: 18172-67-3	0.03 – 0.3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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According to SANS 10234:2019 and SANS 11014:2010

Name	Product identifier	%	Classification according to the United Nations GHS
Citral	CAS-No.: 5392-40-5	0.03 – 0.3	Flam. Liq. 4, H227 Acute Tox. 5 (Dermal), H313 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 2, H401
p-Mentha-1,4-diene	CAS-No.: 99-85-4	0.03 – 0.3	Flam. Liq. 3, H226 Acute Tox. 5 (Oral), H303 Repr. 2, H361 Asp. Tox. 1, H304
dl-Citronellol	CAS-No.: 106-22-9	0.03 – 0.3	Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317 Aquatic Acute 2, H401
alpha-Pinene	CAS-No.: 80-56-8	0.03 – 0.3	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Eucalyptol	CAS-No.: 470-82-6	0.03 – 0.3	Flam. Liq. 3, H226 Acute Tox. 5 (Oral), H303 Skin Sens. 1B, H317
Geraniol	CAS-No.: 106-24-1	0.03 – 0.3	Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
Nerol	CAS-No.: 106-25-2	0.03 – 0.3	Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317
(E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	CAS-No.: 24720-09-0	0.03 – 0.3	Flam. Liq. Not classified Acute Tox. 4 (Oral), H302 Acute Tox. 5 (Dermal), H313 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
p-t-Butyl-alpha-methylhydrocinnamic aldehyde	CAS-No.: 80-54-6	0.03 – 0.3	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 2, H361 Aquatic Chronic 3, H412
Terpinolene	CAS-No.: 586-62-9	0.03 – 0.3	Flam. Liq. 4, H227 Acute Tox. 5 (Oral), H303 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to the United Nations GHS
Isohexenyl cyclohexenyl carboxaldehyde	CAS-No.: 37677-14-8	0.03 – 0.3	Flam. Liq. Not classified Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxine	CAS-No.: 18096-62-3	0.018 – 0.18	Acute Tox. 5 (Oral), H303 Repr. 2, H361
Hydroxycitronellal	CAS-No.: 107-75-5	0.018 – 0.18	Flam. Liq. 4, H227 Acute Tox. Not classified (Oral) Acute Tox. 4 (Dermal), H312 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 3, H402
Benzyl cinnamate	CAS-No.: 103-41-3	0.018 – 0.18	Flam. Liq. 4, H227 Acute Tox. 5 (Oral), H303 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Cinnamyl alcohol	CAS-No.: 104-54-1	0.018 – 0.18	Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 3, H402

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
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 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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

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According to SANS 10234:2019 and SANS 11014:2010

5.3. Advice for firefighters

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.
Other information : Dispose of materials or solid residues at an authorized site.

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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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 in a well-ventilated place. Keep cool. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. 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.

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According to SANS 10234:2019 and SANS 11014:2010

Personal protective equipment symbol(s):



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: No data available
Colour	: No data available
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: No data available
Density	: No data available
Relative gas density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

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According to SANS 10234:2019 and SANS 11014:2010

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. 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

Benzyl acetate (140-11-4)

LD50 oral	2490 mg/kg bodyweight
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Linalool (78-70-6)

LD50 oral	2790 mg/kg bodyweight
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LD50 dermal rabbit	5610 mg/kg bodyweight
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GERANIOL (106-24-1)

LD50 oral	3600 mg/kg bodyweight
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LD50 dermal rabbit	5000 mg/kg
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p-Methylanisole (104-93-8)

LD50 oral	1900 mg/kg bodyweight
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Methyl benzoate (93-58-3)

LD50 oral	1300 mg/kg bodyweight
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Geranyl acetate (105-87-3)

LD50 oral rat	6330 mg/kg bodyweight
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LD50 dermal rabbit	6 ml/kg
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BENZYL SALICYLATE (118-58-1)

LD50 oral	2200 mg/kg bodyweight
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Dihydromyrcenol (18479-58-8)

LD50 oral	3600 mg/kg bodyweight
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LINALYL ACETATE (115-95-7)

LD50 oral rat	9000 mg/kg bodyweight
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LD50 dermal rabbit	5000 mg/kg bodyweight
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HEXAMETHYLINDANOPYRAN (1222-05-5)

LD50 oral rat	4640 mg/kg bodyweight
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LD50 dermal rat	10000 mg/kg bodyweight
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According to SANS 10234:2019 and SANS 11014:2010

d-Limonene (5989-27-5)	
LD50 oral rat	2000 mg/kg bodyweight
Acetyl cedrene (32388-55-9)	
LD50 oral	4500 mg/kg bodyweight
Citral (5392-40-5)	
LD50 dermal	2250 mg/kg bodyweight
p-Mentha-1,4-diene (99-85-4)	
LD50 oral	3850 mg/kg bodyweight
alpha-Pinene (80-56-8)	
LD50 oral	500 mg/kg bodyweight
Geraniol (106-24-1)	
LD50 oral	3600 mg/kg bodyweight
Nerol (106-25-2)	
LD50 oral	4500 mg/kg bodyweight
Eucalyptol (470-82-6)	
LD50 oral	2480 mg/kg bodyweight
Terpinolene (586-62-9)	
LD50 oral	3775 mg/kg bodyweight
dl-Citronellol (106-22-9)	
LD50 oral	3450 mg/kg bodyweight
LD50 dermal	2650 mg/kg bodyweight
2,4-Dimethyl-3-cyclohexen-1-carboxaldehyde (68039-49-6)	
LD50 oral	3900 mg/kg bodyweight
p-t-Butyl-alpha-methylhydrocinnamic aldehyde (80-54-6)	
LD50 oral	1390 mg/kg bodyweight
(E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one (24720-09-0)	
LD50 oral	1670 mg/kg bodyweight
LD50 dermal	2900 mg/kg bodyweight
2-Hexyl-(E)-cinnamaldehyde (165184-98-5)	
LD50 oral	3100 mg/kg bodyweight
Linalool (78-70-6)	
LD50 oral	2790 mg/kg bodyweight
BENZYL SALICYLATE (118-58-1)	
LD50 oral	2200 mg/kg bodyweight
alpha-Amyl trans-Cinnamaldehyde (78605-96-6)	
LD50 oral	3730 mg/kg bodyweight
Hydroxycitronellal (107-75-5)	
LD50 oral rat	6400 mg/kg bodyweight
LD50 dermal rabbit	2000 mg/kg bodyweight

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4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxine (18096-62-3)	
LD50 oral	2500 mg/kg bodyweight
Benzyl cinnamate (103-41-3)	
LD50 oral	3280 mg/kg bodyweight
Cinnamyl alcohol (104-54-1)	
LD50 oral	2500 mg/kg bodyweight

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

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.

Linalool (78-70-6)	
LC50 - Fish [1]	27.8 mg/l
EC50 - Crustacea [1]	59 mg/l
Partition coefficient n-octanol/water (Log Pow)	2.9

GERANIOL (106-24-1)	
LC50 - Fish [1]	22 mg/l
EC50 - Crustacea [1]	10.8 mg/l
EC50 72h - Algae [1]	13.1 mg/l
Partition coefficient n-octanol/water (Log Pow)	2.6

Geranyl acetate (105-87-3)	
LC50 - Fish [1]	68.12 mg/l
EC50 - Crustacea [1]	14.1 mg/l
EC50 72h - Algae [1]	3.72 mg/l
Partition coefficient n-octanol/water (Log Pow)	4.04

LINALYL ACETATE (115-95-7)	
LC50 - Fish [1]	11 mg/l
EC50 - Crustacea [1]	59 mg/l
Partition coefficient n-octanol/water (Log Pow)	3.9

HEXAMETHYLINDANOPYRAN (1222-05-5)	
LC50 - Fish [1]	950 µg/l
EC50 - Crustacea [1]	300 µg/l

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HEXAMETHYLINDANOPYRAN (1222-05-5)	
Partition coefficient n-octanol/water (Log Pow)	5.3
d-Limonene (5989-27-5)	
LC50 - Fish [1]	460 – 720 µg/l
EC50 - Crustacea [1]	307 – 510 µg/l
Partition coefficient n-octanol/water (Log Pow)	4.38
dl-Citronellol (106-22-9)	
LC50 - Fish [1]	14.66 mg/l
EC50 - Crustacea [1]	17.48 mg/l
EC50 72h - Algae [1]	2.4 mg/l
Partition coefficient n-octanol/water (Log Pow)	3.41
2-Hexyl-(E)-cinnamaldehyde (165184-98-5)	
Partition coefficient n-octanol/water (Log Kow)	5.3 from ECHA
Partition coefficient n-octanol/water (Log Pow)	5.3 from ECHA
Hydroxycitronellal (107-75-5)	
LC50 - Fish [1]	31.6 mg/l
EC50 - Crustacea [1]	410 mg/l
EC50 72h - Algae [1]	123.32 mg/l
Partition coefficient n-octanol/water (Log Pow)	1.68
12.2. Persistence and degradability	
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Persistence and degradability	No additional information available
12.3. Bioaccumulative potential	
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Bioaccumulative potential	No additional information available
Linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2.9
GERANIOL (106-24-1)	
Partition coefficient n-octanol/water (Log Pow)	2.6
Geranyl acetate (105-87-3)	
Partition coefficient n-octanol/water (Log Pow)	4.04
LINALYL ACETATE (115-95-7)	
Partition coefficient n-octanol/water (Log Pow)	3.9
HEXAMETHYLINDANOPYRAN (1222-05-5)	
Partition coefficient n-octanol/water (Log Pow)	5.3
d-Limonene (5989-27-5)	
Partition coefficient n-octanol/water (Log Pow)	4.38

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dl-Citronellol (106-22-9)	
Partition coefficient n-octanol/water (Log Pow)	3.41
2-Hexyl-(E)-cinnamaldehyde (165184-98-5)	
Partition coefficient n-octanol/water (Log Pow)	5.3 from ECHA
Partition coefficient n-octanol/water (Log Kow)	5.3 from ECHA
Hydroxycitronellal (107-75-5)	
Partition coefficient n-octanol/water (Log Pow)	1.68

12.4. Mobility in soil

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Mobility in soil	No additional information available
Linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2.9
GERANIOL (106-24-1)	
Partition coefficient n-octanol/water (Log Pow)	2.6
Geranyl acetate (105-87-3)	
Partition coefficient n-octanol/water (Log Pow)	4.04
LINALYL ACETATE (115-95-7)	
Partition coefficient n-octanol/water (Log Pow)	3.9
HEXAMETHYLINDANOPYRAN (1222-05-5)	
Partition coefficient n-octanol/water (Log Pow)	5.3
d-Limonene (5989-27-5)	
Partition coefficient n-octanol/water (Log Pow)	4.38
dl-Citronellol (106-22-9)	
Partition coefficient n-octanol/water (Log Pow)	3.41
2-Hexyl-(E)-cinnamaldehyde (165184-98-5)	
Partition coefficient n-octanol/water (Log Pow)	5.3 from ECHA
Partition coefficient n-octanol/water (Log Kow)	5.3 from ECHA
Hydroxycitronellal (107-75-5)	
Partition coefficient n-octanol/water (Log Pow)	1.68

12.5. Other adverse effects

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

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.




SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

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According to SANS 10234:2019 and SANS 11014:2010

SANS	IMDG	IATA
14.1. UN number		
3082	3082	3082
14.2. Proper Shipping Name		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.
14.3. Transport hazard class(es)		
9	9	9
		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available		

14.6. Special precautions for user

SANS

Special provisions (SANS) : 179, 274, 331, 335
 Limited quantities (SANS) : 5 L
 Limited quantities (SANS) : 5 L
 Packagings, large packagings and IBCs Packing instructions (SANS) : P001, IBC03, LP01
 Packagings, large packagings and IBCs Special packing instructions (SANS) : PP1
 Portable tank and bulk containers instructions (SANS) : T4
 Portable tank and bulk container special provisions (SANS) : 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

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According to SANS 10234:2019 and SANS 11014:2010

ERG code (IATA) : 9L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

Regulatory reference : SANS 10234:2019; SANS 11014:2010; SANS 10228:2012; SANS 10229:2010; SANS 10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National Road Traffic Act 93 of 1996.

SECTION 16: Other information

Issue date : 05/05/2021

Full text of H-statements	
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.
H312	Harmful in contact with skin.
H313	May be harmful in contact with skin
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H316	Causes mild skin irritation
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H320	Causes eye irritation
H331	Toxic if inhaled.
H361	Suspected of damaging fertility or the unborn child.
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), South Africa

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.