Acqua di Gio

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)
Issue date: 7/11/2022 Version: 1.0

SECTION 1: Identification

1.1 Product identifier

Product name : Acqua di Gio :
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
Skin corrosion/irritation Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Skin sensitization, Category 1	H317
Carcinogenicity Category 2	H351
Reproductive toxicity Category 2	H361
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 : Linalool (3.265 – 6.53 %); Linalyl acetate (2.46 – 4.92 %); d-Limonene (1.96 – 3.92 %); Vertofix (1.055 – 2.11 %); Iso E Super (1.055 – 2.11 %); Helional (0.605 – 1.21 %); Lemon oil (0.35 – 0.7 %); Musk ketone (0.35 – 0.7 %); Methyl ionone (mixture of isomers) (0.35 – 0.7 %); Benzyl salicylate (0.15 – 0.3 %); Lime oil distilled (0.15 – 0.3 %); Geranyl acetate (0.05 – 0.1 %)
Hazard statements (GHS NZ) : H227 - Combustible liquid
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation

		H351 - Suspected of causing cancer H361 - Suspected of damaging fertility or the unborn child H411 - Toxic to aquatic life with long lasting effects
Prevention	:	P202 - Do not handle until all safety precautions have been read and understood. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
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. P308+P313 - IF exposed or concerned: 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
Linalool	CAS-No.: 78-70-6	3.265 – 6.53	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Linalyl acetate	CAS-No.: 115-95-7	2.46 – 4.92	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
d-Limonene	CAS-No.: 5989-27-5	1.96 – 3.92	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
HEXAMETHYLINDANOPYRAN	CAS-No.: 1222-05-5	1.205 – 2.41	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ACETYL HEXAMETHYL TETRALIN	CAS-No.: 21145-77-7	1.105 – 2.21	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Ecotoxicity to terrestrial vertebrates C, H433
acetyl cedrene	CAS-No.: 32388-55-9	1.055 – 2.11	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Iso E Super	CAS-No.: 54464-57-2	1.055 – 2.11	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Ethylene brassylate	CAS-No.: 105-95-3	0.855 – 1.71	Aquatic Chronic 2, H411
Helional	CAS-No.: 1205-17-0	0.605 – 1.21	Flam. Liq. 4, H227 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Butylated hydroxytoluene (BHT) crystals	CAS-No.: 128-37-0	0.35 – 0.7	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Name	Product identifier	%	Classification according to GHS NZ
Lemon oil	CAS-No.: 8008-56-8	0.35 – 0.7	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410
Musk ketone	CAS-No.: 81-14-1	0.35 – 0.7	Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Methyl ionone (mixture of isomers)	CAS-No.: 1335-46-2	0.35 – 0.7	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Benzyl salicylate	CAS-No.: 118-58-1	0.15 – 0.3	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
Lime oil distilled	CAS-No.: 8008-26-2	0.15 – 0.3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 2, H361 Asp. Tox. 1, H304 Aquatic Chronic 1, H410
Geranyl acetate	CAS-No.: 105-87-3	0.05 – 0.1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412

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.

4.3. Medical attention and special treatment

Other medical advice or treatment : Treat symptomatically.

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.

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/m³ (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

Butylated hydroxytoluene (BHT) crystals (128-37-0)	
New Zealand - Occupational Exposure Limits	
WES-TWA (OEL TWA) [1]	10 mg/m³
Chemical category	dermal sensitiser
Malaysia - Occupational Exposure Limits	
PEL (OEL TWA) [1]	10 mg/m³
MEL (mg/m³)	30 mg/m³
Korea - Occupational Exposure Limits	
ISHA OEL TWA	2 mg/m³
Singapore - Occupational Exposure Limits	
PEL (OEL TWA)	10 mg/m³
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	10 mg/m³ (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/m³
WEL STEL (OEL STEL)	30 mg/m³ (calculated)
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2 mg/m³ (inhalable fraction and vapor)
ACGIH chemical category	Not Classifiable as a Human Carcinogen

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 : 87 °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: ≈ 1.06
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 : 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

d-Limonene (5989-27-5)	
LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	> 5 g/kg

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

Linalool (78-70-6)	
LD50 oral	2790 mg/kg body weight

HEXAMETHYLINDANOPYRAN (1222-05-5)	
LD50 oral rat	> 3250 mg/kg

HEXAMETHYLINDANOPYRAN (1222-05-5)	
LD50 dermal rabbit	> 3250 mg/kg

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

acetyl cedrene (32388-55-9)	
LD50 oral	4500 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg

ACETYL HEXAMETHYL TETRALIN (21145-77-7)	
LD50 oral rat	570 mg/kg
LD50 oral	1000 mg/kg body weight
LD50 dermal rabbit	> 5 g/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

Helional (1205-17-0)	
LD50 dermal rabbit	> 2000 mg/kg

Butylated hydroxytoluene (BHT) crystals (128-37-0)	
LD50 oral rat	> 2930 mg/kg
LD50 dermal rat	> 2000 mg/kg

Lime oil distilled (8008-26-2)	
LD50 oral rat	5600 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

Lemon oil (8008-56-8)	
LD50 oral rat	2840 mg/kg

Musk ketone (81-14-1)	
LD50 oral rat	10 g/kg
LD50 dermal rabbit	> 10 g/kg
LC50 Inhalation - Rat	> 2.99 mg/l/4h

Geranyl acetate (105-87-3)	
LD50 oral rat	6330 mg/kg

Methyl ionone (mixture of isomers) (1335-46-2)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LD50 dermal	2900 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitization : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Suspected of causing cancer.

Reproductive toxicity	:	Suspected of damaging fertility or the unborn child.
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
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.

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)
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

Linalyl acetate (115-95-7)	
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

HEXAMETHYLINDANOPYRAN (1222-05-5)	
LC50 - Fish [1]	0.452 mg/l Wolf, 1996d-27682
LC50 - Other aquatic organisms [1]	> 0.14 mg/l REACH DOSSIER Pimephales promelas
EC50 - Crustacea [2]	260 µg/l REACH Dossier
EC50 - Other aquatic organisms [1]	0.131 mg/l REACH Dossier
BCF - Fish [1]	(1618 dimensionless (whole body w.w.)
Partition coefficient n-octanol/water (Log Pow)	5.3 (at 25 °C (at pH 7)
LD50 dermal rabbit	> 3250 mg/kg
LD50 oral rat	> 3250 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

acetyl cedrene (32388-55-9)	
BCF - Fish [1]	(3920 dimensionless (organ w.w.)

acetyl cedrene (32388-55-9)	
Partition coefficient n-octanol/water (Log Pow)	5.6 – 5.9
LD50 dermal rabbit	> 5000 mg/kg

ACETYL HEXAMETHYL TETRALIN (21145-77-7)	
Partition coefficient n-octanol/water (Log Pow)	5.7 (at 24 °C)
LD50 dermal rabbit	> 5 g/kg
LD50 oral rat	570 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

Helional (1205-17-0)	
Partition coefficient n-octanol/water (Log Pow)	2.4 (at 25 °C)
LD50 dermal rabbit	> 2000 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)	5.1
	> 2000 mg/kg
LD50 oral rat	> 2930 mg/kg

Lime oil distilled (8008-26-2)	
LD50 dermal rabbit	> 5000 mg/kg
LD50 oral rat	5600 mg/kg

Lemon oil (8008-56-8)	
LD50 oral rat	2840 mg/kg

Musk ketone (81-14-1)	
Partition coefficient n-octanol/water (Log Pow)	4.24 (at 25 °C)
LD50 dermal rabbit	> 10 g/kg
LD50 oral rat	10 g/kg

Geranyl acetate (105-87-3)	
Partition coefficient n-octanol/water (Log Pow)	4.04
LD50 oral rat	6330 mg/kg

Methyl ionone (mixture of isomers) (1335-46-2)	
LC50 - Fish [1]	2.3 mg/l (Exposure time: 96 h - Species: Danio rerio [static])
Partition coefficient n-octanol/water (Log Pow)	(>4.5 - <5 - at 23 °C (at pH 6.2)
LD50 dermal rabbit	> 5000 mg/kg
LD50 oral rat	> 5000 mg/kg

12.2. Persistence and degradability

Acqua di Gio	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Acqua di Gio	
Bioaccumulative potential	Not established.
d-Limonene (5989-27-5)	
Partition coefficient n-octanol/water (Log Pow)	4.38 (at 37 °C (at pH 7.2)
Linalyl acetate (115-95-7)	
Partition coefficient n-octanol/water (Log Pow)	3.9 (at 25 °C)
HEXAMETHYLINDANOPYRAN (1222-05-5)	
BCF - Fish [1]	(1618 dimensionless (whole body w.w.)
Partition coefficient n-octanol/water (Log Pow)	5.3 (at 25 °C (at pH 7)
Ethylene brassylate (105-95-3)	
Partition coefficient n-octanol/water (Log Pow)	4.3 (at 25 °C (at pH 6.4-7)
acetyl cedrene (32388-55-9)	
BCF - Fish [1]	(3920 dimensionless (organ w.w.)
Partition coefficient n-octanol/water (Log Pow)	5.6 – 5.9
ACETYL HEXAMETHYL TETRALIN (21145-77-7)	
Partition coefficient n-octanol/water (Log Pow)	5.7 (at 24 °C)
Benzyl salicylate (118-58-1)	
Partition coefficient n-octanol/water (Log Pow)	4
Helional (1205-17-0)	
Partition coefficient n-octanol/water (Log Pow)	2.4 (at 25 °C)
Butylated hydroxytoluene (BHT) crystals (128-37-0)	
BCF - Fish [1]	230 – 2500
Partition coefficient n-octanol/water (Log Pow)	5.1
Musk ketone (81-14-1)	
Partition coefficient n-octanol/water (Log Pow)	4.24 (at 25 °C)
Geranyl acetate (105-87-3)	
Partition coefficient n-octanol/water (Log Pow)	4.04
Methyl ionone (mixture of isomers) (1335-46-2)	
Partition coefficient n-octanol/water (Log Pow)	(>4.5 - <5 - at 23 °C (at pH 6.2)

12.4. Mobility in soil

Acqua di Gio	
Mobility in soil	No additional information available
d-Limonene (5989-27-5)	
Partition coefficient n-octanol/water (Log Pow)	4.38 (at 37 °C (at pH 7.2)

Linalyl acetate (115-95-7)	
Partition coefficient n-octanol/water (Log Pow)	3.9 (at 25 °C)

HEXAMETHYLINDANOPYRAN (1222-05-5)	
Partition coefficient n-octanol/water (Log Pow)	5.3 (at 25 °C (at pH 7)

Ethylene brassylate (105-95-3)	
Partition coefficient n-octanol/water (Log Pow)	4.3 (at 25 °C (at pH 6.4-7)

acetyl cedrene (32388-55-9)	
Partition coefficient n-octanol/water (Log Pow)	5.6 – 5.9

ACETYL HEXAMETHYL TETRALIN (21145-77-7)	
Partition coefficient n-octanol/water (Log Pow)	5.7 (at 24 °C)

Benzyl salicylate (118-58-1)	
Partition coefficient n-octanol/water (Log Pow)	4

Helional (1205-17-0)	
Partition coefficient n-octanol/water (Log Pow)	2.4 (at 25 °C)

Butylated hydroxytoluene (BHT) crystals (128-37-0)	
Partition coefficient n-octanol/water (Log Pow)	5.1

Musk ketone (81-14-1)	
Partition coefficient n-octanol/water (Log Pow)	4.24 (at 25 °C)

Geranyl acetate (105-87-3)	
Partition coefficient n-octanol/water (Log Pow)	4.04

Methyl ionone (mixture of isomers) (1335-46-2)	
Partition coefficient n-octanol/water (Log Pow)	(>4.5 - <5 - at 23 °C (at pH 6.2)

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. (d-Limonene)
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-Limonene)
Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s. (d-Limonene)

14.3. Transport hazard class(es)

UN RTDG

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

d-Limonene (5989-27-5)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR002725

Linalyl acetate (115-95-7)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR003499

Linalool (78-70-6)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR003500

Benzyl salicylate (118-58-1)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR003501

Butylated hydroxytoluene (BHT) crystals (128-37-0)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR002784

Lime oil distilled (8008-26-2)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR004085

Lemon oil (8008-56-8)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR003520

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Issue date : 7/11/2022

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 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
Carc. 2	Carcinogenicity Category 2
Ecotoxicity to terrestrial vertebrates C	Ecotoxicity to terrestrial vertebrates C
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Repr. 2	Reproductive toxicity Category 2
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
H319	Causes serious eye irritation
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

Full text of H-phrases	
H412	Harmful to aquatic life with long lasting effects
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