

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : Strawberries & Champagne :
UFI : TXSV-520S-A00K-8HJW
Product code :
Type of product : Perfumes, fragrances
Product group : Finished Good

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use
Industrial/Professional use spec : For professional use only
Use of the substance/mixture : Perfumes, fragrances
Function or use category : Odour agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ZEN AROMA
22c Portside Drive
Mt Maunganui, 3116
New Zealand
PH: 07 578 4755
support@zenaroma.co.nz

1.4. Emergency telephone number

Emergency number 0800 764 766 NZ Poisons Centre

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317
Reproductive toxicity, Category 2 H361
Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Suspected of damaging fertility or the unborn child. Causes skin irritation. Causes serious eye irritation. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

GHS08

GHS09

Signal word (CLP)

: Warning

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Hazardous ingredients	: Butylphenyl methylpropional; Hexyl cinnamic aldehyde; Hydroxy; Lyral; d-Limonene; Aldehyde C-16; Citronellol Pure; Linalool
Hazard statements (CLP)	: 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 (CLP)	: P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. 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. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hexyl cinnamic aldehyde	(CAS-No.) 101-86-0 (EC-No.) 202-983-3 (REACH-no) 01-2119533092-50	5 – 10	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Butylphenyl methylpropional	(CAS-No.) 80-54-6 (EC-No.) 201-289-8 (REACH-no) 01-2119474016-42	4.05 – 7.05	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Repr. 2, H361f Aquatic Chronic 2, H411
Benzyl benzoate	(CAS-No.) 120-51-4 (EC-No.) 204-402-9 (EC Index-No.) 607-085-00-9 (REACH-no) 01-2119976371-33	2.625 – 5.25	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411
Hexamethylindanopyran	(CAS-No.) 1222-05-5 (EC-No.) 214-946-9 (EC Index-No.) 603-212-00-7 (REACH-no) 01-2119488227-29	2.625 – 5.25	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Citronellol Pure	(CAS-No.) 106-22-9 (EC-No.) 203-375-0 (REACH-no) 01-2119453995-23	2.3 – 4.6	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Phenylethyl alcohol	(CAS-No.) 60-12-8 (EC-No.) 200-456-2	1.315 – 2.63	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Linalool	(CAS-No.) 78-70-6 (EC-No.) 201-134-4 (EC Index-No.) 603-235-00-2 (REACH-no) 01-2119474016-42	1.275 – 2.55	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Aldehyde C-16	(CAS-No.) 77-83-8 (EC-No.) 201-061-8 (REACH-no) 01-2119967770-28	1.1 – 2.2	Skin Sens. 1B, H317 Aquatic Chronic 2, H411

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Terpineol	(CAS-No.) 8000-41-7 (EC-No.) 232-268-1	0.9 – 1.8	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Hydroxy	(CAS-No.) 107-75-5 (EC-No.) 203-518-7 (REACH-no) 01-2119973482-31	0.625 – 1.25	Eye Irrit. 2, H319 Skin Sens. 1B, H317
Benzyl acetate	(CAS-No.) 140-11-4 (EC-No.) 205-399-7 (REACH-no) 01-2119638272-42	0.55 – 1.1	Aquatic Chronic 3, H412
d-Limonene	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7 (REACH-no) 01-2119493353-35	0.5 – 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Lylal	(CAS-No.) 31906-04-4 (EC-No.) 250-863-4 (EC Index-No.) 605-040-00-8 (REACH-no) 01-2119971808-21	0.375 – 0.75	Skin Sens. 1A, H317
Eugenol	(CAS-No.) 97-53-0 (EC-No.) 202-589-1	0.325 – 0.65	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Iso E Super	(CAS-No.) 54464-57-2 (EC-No.) 259-174-3 (REACH-no) 01-2119489989-04	0.25 – 0.5	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Helional	(CAS-No.) 1205-17-0 (EC-No.) 214-881-6 (REACH-no) 01-2120740119-58	0.15 – 0.3	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
cis-3-Hexenyl salicylate	(CAS-No.) 65405-77-8 (EC-No.) 265-745-8	0.15 – 0.3	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Triplal (Vertocitral)	(CAS-No.) 68039-49-6 (EC-No.) 268-264-1	0.15 – 0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Cyclamal	(CAS-No.) 103-95-7 (EC-No.) 203-161-7 (REACH-no) 01-2119970582-32	0.1 – 0.2	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Citral pure	(CAS-No.) 5392-40-5 (EC-No.) 226-394-6 (EC Index-No.) 605-019-00-3 (REACH-no) 01-2119462829-23	0.05 – 0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of 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). IF exposed or concerned: Get medical advice/attention.

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.

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First-aid measures after skin contact	: Wash with plenty of water/.... If skin irritation or rash occurs: Get immediate medical advice/attention. Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash contaminated clothing before reuse. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention. 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 immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: May cause an allergic skin reaction.
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	: Sand. Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Combustible liquid.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the 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

General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
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6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.
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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.

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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. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Precautions for safe handling : Ensure good ventilation of the work station. No open flames. No smoking. 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 vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed.
- Storage conditions : Keep in fireproof place. 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 locked up. Store in a well-ventilated place. Keep cool.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Heat sources. 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.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Citral pure (5392-40-5)	
Belgium - Occupational Exposure Limits	
Limit value (mg/m ³)	32 mg/m ³ (vapor and aerosol)
Limit value (ppm)	5 ppm (vapor and aerosol)
OEL chemical category (BE)	Skin
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (ppm)	5 ppm
OEL (15 min ref) (ppm)	15 ppm (calculated)

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Citral pure (5392-40-5)	
Poland - Occupational Exposure Limits	
NDS (mg/m ³)	27 mg/m ³
NDSch (mg/m ³)	54 mg/m ³
Portugal - Occupational Exposure Limits	
OEL chemical category (PT)	Sensitizer
Spain - Occupational Exposure Limits	
VLA-ED (ppm)	5 ppm (inhalable fraction and vapor)
OEL chemical category (ES)	Sensitizer, skin - potential for cutaneous absorption
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	5 ppm (inhalable fraction and vapor)
ACGIH chemical category	dermal sensitizer, Skin - potential significant contribution to overall exposure by the cutaneous route, Not Classifiable as a Human Carcinogen
Benzyl acetate (140-11-4)	
Belgium - Occupational Exposure Limits	
Limit value (mg/m ³)	62 mg/m ³
Limit value (ppm)	10 ppm
Denmark - Occupational Exposure Limits	
Grænseværdie (langvarig) (mg/m ³)	61 mg/m ³
Grænseværdie (langvarig) (ppm)	10 ppm
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (ppm)	10 ppm
OEL (15 min ref) (ppm)	30 ppm (calculated)
Latvia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	5 mg/m ³
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	5 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA (ppm)	10 ppm
OEL chemical category (PT)	A4 - Not Classifiable as a Human Carcinogen
Romania - Occupational Exposure Limits	
OEL TWA (mg/m ³)	50 mg/m ³
OEL TWA (ppm)	8 ppm
OEL STEL (mg/m ³)	80 mg/m ³
OEL STEL (ppm)	13 ppm
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	62 mg/m ³
VLA-ED (ppm)	10 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	10 ppm
ACGIH chemical category	Not Classifiable as a Human Carcinogen

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d-Limonene (5989-27-5)

Finland - Occupational Exposure Limits

HTP-arvo (8h) (mg/m ³)	140 mg/m ³
HTP-arvo (8h) (ppm)	25 ppm
HTP-arvo (15 min)	280 mg/m ³
HTP-arvo (15 min) (ppm)	50 ppm

Germany - Occupational Exposure Limits (TRGS 900)

Occupational exposure limit value (mg/m ³)	28 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Occupational exposure limit value (ppm)	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

Slovenia - Occupational Exposure Limits

OEL TWA (mg/m ³)	28 mg/m ³
OEL TWA (ppm)	5 ppm
OEL STEL (mg/m ³)	112 mg/m ³
OEL STEL (ppm)	20 ppm
OEL chemical category (SI)	Potential for cutaneous absorption

Spain - Occupational Exposure Limits

VLA-ED (mg/m ³)	168 mg/m ³
VLA-ED (ppm)	30 ppm
OEL chemical category (ES)	Sensitizer, skin - potential for cutaneous absorption

Norway - Occupational Exposure Limits

Grenseverdier (AN) (mg/m ³)	140 mg/m ³
Grenseverdier (AN) (ppm)	25 ppm
Grenseverdier (Korttidsverdi) (mg/m ³)	175 mg/m ³ (value calculated)
Grenseverdier (Korttidsverdi) (ppm)	37.5 ppm (value calculated)
OEL chemical category (NO)	Sensitizing substance

Switzerland - Occupational Exposure Limits

MAK (mg/m ³)	40 mg/m ³
MAK (ppm)	7 ppm
KZGW (mg/m ³)	80 mg/m ³
KZGW (ppm)	14 ppm
OEL chemical category (CH)	Sensitizer

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

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Eye protection:

Chemical goggles or safety glasses. Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask. [In case of inadequate ventilation] wear respiratory protection.

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

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: light yellow. amber.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: ≥ 93 °C (closed cup) ASTM D7094
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: ≈ 0.94
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 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.

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10.2. Chemical stability

Combustible liquid. May form flammable/explosive vapour-air mixture. Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. Heat. Sparks. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

May release flammable gases. fume. Carbon monoxide. Carbon dioxide.

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

Citral pure (5392-40-5)	
LD50 oral rat	4960 mg/kg
LD50 dermal rabbit	2250 mg/kg
LD50 dermal	2250 mg/kg bodyweight

Cyclamal (103-95-7)	
LD50 oral rat	3810 mg/kg
LD50 oral	3810 mg/kg bodyweight

cis-3-Hexenyl salicylate (65405-77-8)	
LD50 oral rat	5 g/kg

Triplal (Vertocitral) (68039-49-6)	
LD50 oral	3900 mg/kg bodyweight

Eugenol (97-53-0)	
LD50 oral rat	1930 mg/kg
LD50 oral	2500 mg/kg bodyweight

Lyral (31906-04-4)	
LD50 oral rat	3250 µl/kg

Benzyl acetate (140-11-4)	
LD50 oral rat	2490 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

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Hydroxy (107-75-5)

LD50 oral rat	> 5 g/kg
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Terpineol (8000-41-7)

LD50 oral rat	2900 mg/kg
LD50 oral	4300 mg/kg bodyweight
LD50 dermal rabbit	> 3000 mg/kg

Aldehyde C-16 (77-83-8)

LD50 oral rat	5470 mg/kg
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Linalool (78-70-6)

LD50 oral rat	2790 mg/kg
LD50 oral	2790 mg/kg bodyweight
LD50 dermal rabbit	2000 mg/kg

Phenylethyl alcohol (60-12-8)

LD50 oral rat	1609 mg/kg
LD50 oral	1610 mg/kg bodyweight
LD50 dermal rabbit	2535 mg/kg
LD50 dermal	2500 mg/kg bodyweight
LC50 inhalation rat (mg/l)	> 4.63 mg/l/4h

Citronellol Pure (106-22-9)

LD50 oral rat	3450 mg/kg
LD50 oral	3450 mg/kg bodyweight
LD50 dermal rabbit	2650 mg/kg
LD50 dermal	2650 mg/kg bodyweight

Hexamethylindanopyran (1222-05-5)

LD50 oral rat	> 3250 mg/kg
LD50 dermal rabbit	> 3250 mg/kg

Benzyl benzoate (120-51-4)

LD50 oral rat	500 mg/kg
LD50 oral	1500 mg/kg bodyweight
LD50 dermal rabbit	4000 mg/kg
LD50 dermal	4000 mg/kg bodyweight

Butylphenyl methylpropional (80-54-6)

LD50 oral rat	1390 mg/kg
LD50 oral	1390 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg

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LC50 inhalation rat (mg/l)	> 1802 mg/m ³ (Exposure time: 4 h)
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Hexyl cinnamic aldehyde (101-86-0)

LD50 oral rat	3100 mg/kg
LD50 oral	3100 mg/kg bodyweight
LD50 dermal rabbit	> 3000 mg/kg
LC50 inhalation rat (mg/l)	> 5 mg/l/4h

d-Limonene (5989-27-5)

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

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

Eugenol (97-53-0)

IARC group	3 - Not classifiable
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Benzyl acetate (140-11-4)

IARC group	3 - Not classifiable
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d-Limonene (5989-27-5)

IARC group	3 - Not classifiable
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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: Ecological information

12.1. Toxicity

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.

Citral pure (5392-40-5)

EC50 Daphnia 1	7 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h algae (1)	16 mg/l (Species: Desmodesmus subspicatus)
EC50 96h algae (1)	19 mg/l (Species: Desmodesmus subspicatus)

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Eugenol (97-53-0)

LC50 fish 1	13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
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Aldehyde C-16 (77-83-8)

LC50 fish 1	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
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Linalool (78-70-6)

LC50 fish 1	27.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
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EC50 Daphnia 1	20 mg/l (Exposure time: 48 h - Species: Daphnia magna)
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EC50 96h algae (1)	88.3 mg/l (Species: Desmodesmus subspicatus)
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Phenylethyl alcohol (60-12-8)

EC50 Daphnia 1	287.17 mg/l (Exposure time: 48 h - Species: Daphnia magna)
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EC50 72h algae (1)	490 mg/l (Species: Desmodesmus subspicatus)
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Hexamethylindanopyran (1222-05-5)

LC50 fish 1	0.452 mg/l Wolf, 1996d-27682
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LC50 other aquatic organisms 1	> 0.14 mg/l REACH DOSSIER Pimephales promelas
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EC50 Daphnia 2	260 µg/l REACH Dossier
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EC50 other aquatic organisms 1	0.131 mg/l REACH Dossier
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Benzyl benzoate (120-51-4)

LC50 fish 1	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
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NOEC (chronic)	0.168 mg/l
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Butylphenyl methylpropional (80-54-6)

LC50 fish 1	2.2 – 4.6 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
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EC50 Daphnia 1	10.7 mg/l (Exposure time: 48 h - Species: Daphnia magna)
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d-Limonene (5989-27-5)

LC50 fish 1	0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
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LC50 fish 2	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
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12.2. Persistence and degradability

Strawberries & Champagne

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

Strawberries & Champagne

Bioaccumulative potential	Not established.
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Citral pure (5392-40-5)

Partition coefficient n-octanol/water (Log Pow)	2.76 (at 25 °C)
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Benzyl acetate (140-11-4)

Partition coefficient n-octanol/water (Log Pow)	1.96
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Linalool (78-70-6)

Partition coefficient n-octanol/water (Log Pow)	2.84 – 3.1 (at 25 °C)
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Phenylethyl alcohol (60-12-8)

Partition coefficient n-octanol/water (Log Pow)	1.38 (at 25 °C)
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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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Butylphenyl methylpropional (80-54-6)

Partition coefficient n-octanol/water (Log Pow)	4.2 (at 24 °C)
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose of contents/container in accordance with local/national laws and regulations. Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: UN 3082
UN-No. (IMDG)	: UN 3082
UN-No. (IATA)	: UN 3082
UN-No. (ADN)	: UN 3082
UN-No. (RID)	: UN 3082

14.2. UN proper shipping name

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

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Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s.
Proper Shipping Name (ADN)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (RID)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description (ADR)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAMETHYLINDANOPYRAN), 9, III, (E)
Transport document description (IMDG)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAMETHYLINDANOPYRAN), 9, III, MARINE POLLUTANT
Transport document description (IATA)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (HEXAMETHYLINDANOPYRAN), 9, III
Transport document description (ADN)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
Transport document description (RID)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

14.3. Transport hazard class(es)

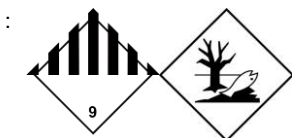
ADR

Transport hazard class(es) (ADR)	: 9
Danger labels (ADR)	: 9



IMDG

Transport hazard class(es) (IMDG)	: 9
Danger labels (IMDG)	: 9



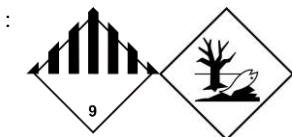
IATA

Transport hazard class(es) (IATA)	: 9
Danger labels (IATA)	: 9



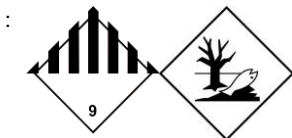
ADN

Transport hazard class(es) (ADN)	: 9
Danger labels (ADN)	: 9



RID

Transport hazard class(es) (RID)	: 9
Danger labels (RID)	: 9



14.4. Packing group

Packing group (ADR)	: III
Packing group (IMDG)	: III

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Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

14.5. Environmental hazards

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

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M6
Special provisions (ADR) : 274, 335, 601, 375
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions (ADR) : TP1, TP29
Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13
Hazard identification number (Kemler No.) : 90
Orange plates :



Tunnel restriction code (ADR) : E
EAC code : •3Z

Transport by sea

Special provisions (IMDG) : 274, 335, 969
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP2, TP29
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
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 provisions (IATA) : A97, A158, A197
ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6
Special provisions (ADN) : 274, 335, 375, 601
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1

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Carriage permitted (ADN) : T
Equipment required (ADN) : PP
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6
Special provisions (RID) : 274, 335, 375, 601
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Packing instructions (RID) : P001, IBC03, LP01, R001
Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions (RID) : TP1, TP29
Tank codes for RID tanks (RID) : LGBV
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW31
Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

Reference code	Applicable on
3(a)	d-Limonene
3(b)	Strawberries & Champagne ; Citral pure ; Cyclamal ; Helional ; Iso E Super ; Eugenol ; Triplal (Vertocitral) ; Butylphenyl methylpropional ; Hexyl cinnamic aldehyde ; Hydroxy ; Lyrall ; d-Limonene ; Aldehyde C-16 ; Citronellol Pure ; Phenylethyl alcohol ; Terpeneol ; Linalool ; Benzyl benzoate
3(c)	Strawberries & Champagne ; Cyclamal ; Helional ; Iso E Super ; cis-3-Hexenyl salicylate ; Triplal (Vertocitral) ; Butylphenyl methylpropional ; Hexyl cinnamic aldehyde ; Benzyl acetate ; d-Limonene ; Aldehyde C-16 ; Benzyl benzoate ; Hexamethylindanopyran
40.	d-Limonene

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : cis-3-Hexenyl salicylate, Triplal (Vertocitral), Terpeneol are listed
SZW-lijst van mutagene stoffen : cis-3-Hexenyl salicylate, Triplal (Vertocitral), Terpeneol are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

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NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Other information : None.

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Repr. 2	H361
Aquatic Chronic 2	H411

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
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
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
Skin Sens. 1B	Skin sensitisation, category 1B
H226	Flammable liquid and vapour.
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.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.

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H400	Very toxic 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