

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

1.1. Product identifier

Product form	: Mixture
Product name	: Pina Colada
UFI	: X9DY-W22C-000T-D209
Product code	: 33362F
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	: Industrial 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]

Acute toxicity (oral), Category 4	H302
Skin sensitisation, Category 1	H317
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

Harmful if swallowed. 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

GHS09

Signal word (CLP)

: Warning

Hazardous ingredients

: Benzyl benzoate; d-Limonene; Coumarin crystals; Hexyl cinnamic aldehyde; Allyl cyclohexylpropionate

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Hazard statements (CLP)	: H302 - Harmful if swallowed. H317 - May cause an allergic skin reaction. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. 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. P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

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]
Benzyl benzoate	(CAS-No.) 120-51-4 (EC-No.) 204-402-9 (EC Index-No.) 607-085-00-9 (REACH-no) 01-2119976371-33	37.52 – 57.52	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411
d-Limonene	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7 (REACH-no) 01-2119493353-35	1.925 – 3.85	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Hexamethylindanopyran	(CAS-No.) 1222-05-5 (EC-No.) 214-946-9 (EC Index-No.) 603-212-00-7 (REACH-no) 01-2119488227-29	1.665 – 3.33	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Coumarin crystals	(CAS-No.) 91-64-5 (EC-No.) 202-086-7 (REACH-no) 01-2119943756-26	1.1 – 2.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Veltol plus crystals	(CAS-No.) 4940-11-8 (EC-No.) 225-582-5	0.825 – 1.65	Acute Tox. 4 (Oral), H302
Verdox	(CAS-No.) 88-41-5 (EC-No.) 201-828-7 (REACH-no) 01-2119970713-33	0.675 – 1.35	Aquatic Chronic 2, H411
Allyl cyclohexylpropionate	(CAS-No.) 2705-87-5 (EC-No.) 220-292-5	0.675 – 1.35	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Hexyl cinnamic aldehyde	(CAS-No.) 101-86-0 (EC-No.) 202-983-3 (REACH-no) 01-2119533092-50	0.5 – 1	Skin Sens. 1, H317 Aquatic Chronic 2, H411

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Lime oil distilled	(CAS-No.) 8008-26-2 (EC-No.) 290-010-3;616-919-0	0.475 – 0.95	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Allyl heptanoate	(CAS-No.) 142-19-8 (EC-No.) 205-527-1 (REACH-no) 01-2119488961-23	0.425 – 0.85	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Citral pure	(CAS-No.) 5392-40-5 (EC-No.) 226-394-6 (EC Index-No.) 605-019-00-3 (REACH-no) 01-2119462829-23	0.275 – 0.55	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Camphene	(CAS-No.) 79-92-5 (EC-No.) 201-234-8	0.225 – 0.45	Flam. Sol. 2, H228 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Litsea cubeba oil	(CAS-No.) 68855-99-2 (EC-No.) 290-018-7	0.2 – 0.4	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Linalool	(CAS-No.) 78-70-6 (EC-No.) 201-134-4 (EC Index-No.) 603-235-00-2 (REACH-no) 01-2119474016-42	0.2 – 0.4	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Allyl caproate	(CAS-No.) 123-68-2 (EC-No.) 204-642-4 (REACH-no) 01-2119983573-26	0.075 – 0.15	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Isoamyl acetate substance with a Community workplace exposure limit	(CAS-No.) 123-92-2 (EC-No.) 204-662-3 (EC Index-No.) 607-130-00-2 (REACH-no) 01-2119548408-32	0.075 – 0.15	Flam. Liq. 3, H226
Cyclamal	(CAS-No.) 103-95-7 (EC-No.) 203-161-7 (REACH-no) 01-2119970582-32	0.075 – 0.15	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Triplal (Vertocitral)	(CAS-No.) 68039-49-6 (EC-No.) 268-264-1	0.075 – 0.15	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412

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). Call a poison center or a doctor if you feel unwell.

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 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 eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. 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	: May cause an allergic skin reaction.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

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	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
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.
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. Wear personal protective equipment. No open flames. No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. 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. Avoid contact with skin and eyes.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Always wash hands after handling the product.

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 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

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)

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d-Limonene (5989-27-5)	
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
Camphene (79-92-5)	
Switzerland - Occupational Exposure Limits	
KZGW (mg/m ³)	224 mg/m ³ (Turpentine oil)
KZGW (ppm)	40 ppm (Turpentine oil)
OEL chemical category (CH)	Sensitizer, Skin notation
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)
Poland - Occupational Exposure Limits	
NDS (mg/m ³)	27 mg/m ³
NDSCh (mg/m ³)	54 mg/m ³

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Citral pure (5392-40-5)	
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
Isoamyl acetate (123-92-2)	
EU - Occupational Exposure Limits	
IOELV TWA (mg/m ³)	270 mg/m ³
IOELV TWA (ppm)	50 ppm
IOELV STEL (mg/m ³)	540 mg/m ³
IOELV STEL (ppm)	100 ppm
Austria - Occupational Exposure Limits	
MAK (mg/m ³)	270 mg/m ³ (Pentyl acetate (all isomers))
MAK (ppm)	50 ppm (Pentyl acetate (all isomers))
MAK Short time value (mg/m ³)	540 mg/m ³ (Pentylacetate)
MAK Short time value (ppm)	100 ppm (Pentylacetate)
Belgium - Occupational Exposure Limits	
Limit value (mg/m ³)	270 mg/m ³
Limit value (ppm)	50 ppm
Short time value (mg/m ³)	540 mg/m ³
Short time value (ppm)	100 ppm
Bulgaria - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	540 mg/m ³
OEL STEL (ppm)	100 ppm
Croatia - Occupational Exposure Limits	
GVI (granična vrijednost izloženosti) (mg/m ³)	270 mg/m ³
GVI (granična vrijednost izloženosti) (ppm)	50 ppm
KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	540 mg/m ³
KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	100 ppm
Cyprus - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	540 mg/m ³

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Isoamyl acetate (123-92-2)	
OEL STEL (ppm)	100 ppm
Denmark - Occupational Exposure Limits	
Grænseværdie (langvarig) (mg/m ³)	271 mg/m ³ (Amyl acetate, all isomers)
Grænseværdie (langvarig) (ppm)	50 ppm (Amyl acetate, all isomers)
Estonia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	540 mg/m ³
OEL STEL (ppm)	100 ppm
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m ³)	270 mg/m ³ (Pentyl acetate)
HTP-arvo (8h) (ppm)	50 ppm (Pentyl acetate)
HTP-arvo (15 min)	540 mg/m ³
HTP-arvo (15 min) (ppm)	100 ppm
France - Occupational Exposure Limits	
VME (mg/m ³)	270 mg/m ³ (restrictive limit)
VME (ppm)	50 ppm (restrictive limit)
VLE (mg/m ³)	540 mg/m ³ (restrictive limit)
VLE (ppm)	100 ppm (restrictive limit)
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	270 mg/m ³
Occupational exposure limit value (ppm)	50 ppm
Gibraltar - Occupational Exposure Limits	
Eight hours mg/m ³	270 mg/m ³
Eight hours ppm	50 ppm
Short-term mg/m ³	540 mg/m ³
Short-term ppm	100 ppm
Greece - Occupational Exposure Limits	
OEL TWA (mg/m ³)	530 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m ³)	800 mg/m ³
OEL STEL (ppm)	150 ppm
Hungary - Occupational Exposure Limits	
AK-érték	270 mg/m ³
CK-érték	540 mg/m ³
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	260 mg/m ³
OEL (8 hours ref) (ppm)	50 ppm
OEL (15 min ref) (mg/m ³)	520 mg/m ³
OEL (15 min ref) (ppm)	100 ppm

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Isoamyl acetate (123-92-2)	
Italy - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	540 mg/m ³
OEL STEL (ppm)	100 ppm
Latvia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	270 mg/m ³
IPRV (ppm)	50 ppm
TPRV (mg/m ³)	540 mg/m ³
TPRV (ppm)	100 ppm
Luxembourg - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	540 mg/m ³
OEL STEL (ppm)	100 ppm
Malta - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	540 mg/m ³
OEL STEL (ppm)	100 ppm
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 15MIN (mg/m ³)	530 mg/m ³
Poland - Occupational Exposure Limits	
NDS (mg/m ³)	250 mg/m ³
NDSCh (mg/m ³)	500 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³ (indicative limit value)
OEL TWA (ppm)	50 ppm (indicative limit value)
OEL STEL (mg/m ³)	540 mg/m ³ (indicative limit value)
OEL STEL (ppm)	100 ppm (indicative limit value, regulated under Pentyl acetate, all isomers)
Romania - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	540 mg/m ³
OEL STEL (ppm)	100 ppm
Slovakia - Occupational Exposure Limits	
NPHV (priemerná) (mg/m ³)	270 mg/m ³

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Isoamyl acetate (123-92-2)	
NPHV (priemerná) (ppm)	50 ppm
NPHV (Hraničná) (mg/m ³)	540 mg/m ³
Slovenia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	540 mg/m ³
OEL STEL (ppm)	100 ppm
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	270 mg/m ³ (indicative limit value)
VLA-ED (ppm)	50 ppm (indicative limit value)
VLA-EC (mg/m ³)	540 mg/m ³
VLA-EC (ppm)	100 ppm
Sweden - Occupational Exposure Limits	
nivågränsvärde (NVG) (mg/m ³)	270 mg/m ³ (Pentyl acetates)
nivågränsvärde (NVG) (ppm)	50 ppm (Pentyl acetates)
kortidsvärde (KTV) (mg/m ³)	540 mg/m ³ (Pentyl acetates)
kortidsvärde (KTV) (ppm)	100 ppm (Pentyl acetates)
Norway - Occupational Exposure Limits	
Grenseverdier (AN) (mg/m ³)	260 mg/m ³
Grenseverdier (AN) (ppm)	50 ppm
Grenseverdier (Korttidsverdi) (mg/m ³)	325 mg/m ³ (value calculated)
Grenseverdier (Korttidsverdi) (ppm)	75 ppm (value calculated)
Turkey - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	540 mg/m ³
OEL STEL (ppm)	100 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	50 ppm (Pentyl acetate, all isomers)
ACGIH STEL (ppm)	100 ppm (Pentyl acetate, all isomers)

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.

Eye protection:

Chemical goggles or safety glasses. Safety glasses

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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

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	: 80 °C (closed cup) ASTM D7094
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Combustible liquid, Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
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.

10.2. Chemical stability

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

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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) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Pina Colada

ATE CLP (oral)	663.207 mg/kg bodyweight
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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

d-Limonene (5989-27-5)

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

Hexamethylindanopyran (1222-05-5)

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

Coumarin crystals (91-64-5)

LD50 oral rat	> 5000 mg/kg
LD50 oral	500 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg

Veltol plus crystals (4940-11-8)

LD50 oral rat	1150 mg/kg
LD50 oral	1200 mg/kg bodyweight

Verdox (88-41-5)

LD50 oral rat	4600 mg/kg
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LD50 oral	4600 mg/kg bodyweight
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Allyl cyclohexylpropionate (2705-87-5)

LD50 oral rat	585 mg/kg
LD50 oral	480 mg/kg bodyweight
LD50 dermal	1600 mg/kg bodyweight
LC50 inhalation rat (Vapours - mg/l/4h)	11 mg/l/4h

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

Camphene (79-92-5)

LD50 oral rat	5600 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

Allyl heptanoate (142-19-8)

LD50 oral rat	500 mg/kg
LD50 oral	218 mg/kg bodyweight
LD50 dermal	810 mg/kg bodyweight

Citral pure (5392-40-5)

LD50 oral rat	4960 mg/kg
LD50 dermal rabbit	2250 mg/kg
LD50 dermal	2250 mg/kg bodyweight

Linalool (78-70-6)

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

Allyl caproate (123-68-2)

LD50 oral	300 mg/kg bodyweight
LD50 dermal	300 mg/kg bodyweight
LC50 inhalation rat (Vapours - mg/l/4h)	3 mg/l/4h

Cyclamal (103-95-7)

LD50 oral rat	3810 mg/kg
LD50 oral	3810 mg/kg bodyweight

Triplal (Vertocitral) (68039-49-6)

LD50 oral	3900 mg/kg bodyweight
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Litsea cubeba oil (68855-99-2)

LD50 oral rat	> 5 g/kg
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Lime oil distilled (8008-26-2)

LD50 oral rat	> 5 g/kg
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Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

d-Limonene (5989-27-5)

IARC group	3 - Not classifiable
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Coumarin crystals (91-64-5)

IARC group	3 - Not classifiable
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Reproductive toxicity	: Not classified
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STOT-single exposure	: Not classified
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STOT-repeated exposure	: Not classified
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Aspiration hazard	: Not classified
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Potential adverse human health effects and symptoms	: Harmful if swallowed. Based on available data, the classification criteria are not met.
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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.

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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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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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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Veltol plus crystals (4940-11-8)

LC50 fish 1	> 85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
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Allyl cyclohexylpropionate (2705-87-5)

LC50 fish 1	0.13 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
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Camphene (79-92-5)

LC50 fish 1	0.72 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [flow-through])
LC50 fish 2	150 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 Daphnia 1	22 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h algae (1)	> 1000 mg/l (Species: Desmodesmus subspicatus)

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)

Linalool (78-70-6)

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

Allyl caproate (123-68-2)

LC50 fish 1	0.117 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
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12.2. Persistence and degradability

Pina Colada

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

Pina Colada

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

Partition coefficient n-octanol/water (Log Pow)	4
Bioaccumulative potential	Not established.

Citral pure (5392-40-5)

Partition coefficient n-octanol/water (Log Pow)	2.76 (at 25 °C)
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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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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.
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
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)

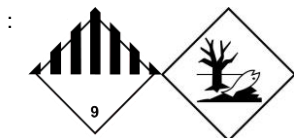
ADR

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

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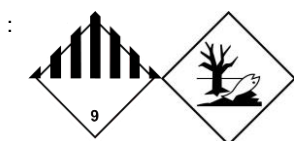
IMDG

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
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, 375, 601
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

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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 :



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
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
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

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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 ; Lime oil distilled ; Isoamyl acetate
3(b)	Pina Colada ; Benzyl benzoate ; d-Limonene ; Hexyl cinnamic aldehyde ; Allyl heptanoate ; Lime oil distilled ; Allyl cyclohexylpropionate ; Allyl caproate ; Citral pure ; Litsea cubeba oil ; Linalool ; Cyclamal ; Triplal (Vertocitral)
3(c)	Pina Colada ; Benzyl benzoate ; d-Limonene ; Hexamethylindanopyran ; Hexyl cinnamic aldehyde ; Allyl heptanoate ; Lime oil distilled ; Verdox ; Allyl cyclohexylpropionate ; Allyl caproate ; Litsea cubeba oil ; Cyclamal ; Triplal (Vertocitral)
40.	d-Limonene ; Lime oil distilled ; Isoamyl acetate ; Camphene

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 : Triplal (Vertocitral) is listed

SZW-lijst van mutagene stoffen : Triplal (Vertocitral) is 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

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

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

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : 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

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

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]:

Acute Tox. 4 (Oral)	H302
Skin Sens. 1	H317

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Aquatic Chronic 2

H411

Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
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
Flam. Sol. 2	Flammable solids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
H226	Flammable liquid and vapour.
H228	Flammable solid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
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.

SDS EU (REACH Annex II)

Pina Colada

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Safety Data Sheet (SDS), New Zealand

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This SDS is current to the date listed above. However, the GHS classifications may change due to hazard communication updates by the overseeing governing body. For the most current SDS information please contact support@zenaroma.co.nz