

## 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 : Dior Addict : 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

0800 764 766 NZ Poisons Centre **Emergency number** 

#### **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)

H315 Skin corrosion/irritation Category 2 H319 Serious eye damage/eye irritation, Category 2 Skin sensitization, Category 1 H317 Carcinogenicity Category 2 H351 Hazardous to the aquatic environment - Chronic Hazard Category 3 H412

## 2.2. GHS Label elements, including precautionary statements

#### **GHS NZ labelling**

Hazard pictograms (GHS NZ)





Signal word (GHS NZ)

: Iso E Super (3.655 – 7.31 %); Linalyl acetate (1.77 – 3.54 %); Linalool (0.945 – 1.89 %); Contains

> Tangerine oil (0.825 – 1.65 %); COUMARIN (0.65 – 1.3 %); Geraniol (0.318 – 0.636 %); Musk ketone (0.235 – 0.47 %); Nerol (0.212 – 0.424 %); Cinnamic alcohol (0.12 – 0.24 %); Exaltolide (0.12 – 0.24 %); Vetiver oil (0.12 – 0.24 %); Cashmeran (0.12 – 0.24 %);

Citronellol Pure (0.06 - 0.12 %); Cis-3-Hexenyl Benzoate (0.06 - 0.12 %)

Hazard statements (GHS NZ) : H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H351 - Suspected of causing cancer

H412 - Harmful to aquatic life with long lasting effects

Prevention : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

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- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- 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.

## 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
Iso E Super	CAS-No.: 54464-57-2	3.655 – 7.31	Skin Sens. 1, H317 Aquatic Chronic 2, H411
2-Methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	CAS-No.: 28219-60-5	3.42 – 6.84	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400
Linalyl acetate	CAS-No.: 115-95-7	1.77 – 3.54	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Linalool	CAS-No.: 78-70-6	0.945 – 1.89	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Tangerine oil	CAS-No.: 8016-85-1	0.825 – 1.65	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Cedarwood oil, Texas	CAS-No.: 68990-83-0	0.65 – 1.3	Asp. Tox. 1, H304 Aquatic Chronic 1, H410
COUMARIN	CAS-No.: 91-64-5	0.65 – 1.3	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:gas), H331 Skin Sens. 1, H317 Aquatic Chronic 2, H411 Hazardous to terrestrial vertebrates, H434
Jasmal	CAS-No.: 18871-14-2	0.59 – 1.18	Aquatic Chronic 3, H412
Geraniol	CAS-No.: 106-24-1	0.318 – 0.636	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 3, H402
Musk ketone	CAS-No.: 81-14-1	0.235 – 0.47	Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Nerol	CAS-No.: 106-25-2	0.212 – 0.424	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 3, H402
Cinnamic alcohol	CAS-No.: 104-54-1	0.12 – 0.24	Skin Sens. 1, H317

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Name	Product identifier	%	Classification according to GHS NZ
Exaltolide	CAS-No.: 106-02-5	0.12 – 0.24	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Vetiveria zizanoides root oil	CAS-No.: 8016-96-4	0.12 – 0.24	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Cashmeran	CAS-No.: 33704-61-9	0.12 – 0.24	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 3, H402 Aquatic Chronic 2, H411
Citronellol Pure	CAS-No.: 106-22-9	0.06 – 0.12	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Hex-3-en-1-yl benzoate	CAS-No.: 25152-85-6	0.06 – 0.12	Skin Sens. 1B, H317 Aquatic Chronic 2, H411

## **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.

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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

No additional information available

#### **Exposure limit values of other components**

No additional information available

#### 8.2. Monitoring methods

No additional information available

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#### 8.3. Engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

## 8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses. Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear appropriate mask

## Personal protective equipment symbol(s)





Environmental exposure controls : Avoid release to the environment.

Other information : Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

Physical state : Liquid

Appearance : No data available
Color : light yellow amber
Odor : characteristic

Odor threshold : No additional information available pH : No additional information available Evaporation rate : No additional information available

Relative evaporation rate (butyl acetate=1) : No data available

Melting point / Freezing point : Melting point: Not applicable

Boiling point : No data available
Flash point : > 93 °C FCF\_08
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: ≈ 1.05

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

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Acute toxicity (inhalation) : Not classified		
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	
COUMARIN (91-64-5)		
LD50 oral rat	> 5000 mg/kg	
LD50 oral	500 mg/kg body weight	
LD50 dermal rat	293 mg/kg	
Jasmal (18871-14-2)		
LD50 oral rat	> 5 g/kg	
LD50 dermal rat	> 2000 mg/kg	
Geraniol (106-24-1)		
LD50 oral rat	3600 mg/kg	
LD50 oral	3600 mg/kg body weight	
LD50 dermal rabbit	> 5 g/kg	
Nerol (106-25-2)		
LD50 oral rat	4500 mg/kg	
LD50 oral	4500 mg/kg body weight	
LD50 dermal rabbit	> 5 g/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	
Exaltolide (106-02-5)		
LD50 oral rat	> 5 g/kg	
Cashmeran (33704-61-9)		
LD50 oral	2900 mg/kg body weight	
Cinnamic alcohol (104-54-1)		
LD50 oral	2000 mg/kg body weight	
LD50 dermal rabbit	> 5000 mg/kg	
Vetiveria zizanoides root oil (8016-96-4)		
LD50 oral rat	> 5 g/kg	
Citronellol Pure (106-22-9)		
LD50 oral rat	3450 mg/kg	
LD50 oral	3450 mg/kg body weight	
LD50 dermal rabbit	2650 mg/kg	
LD50 dermal	2650 mg/kg body weight	
Skin corrosion/irritation :	Causes skin irritation.	

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Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified

Cashmeran (33704-61-9)

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Potential Adverse human health effects and : Based on available data, the classification criteria are not met.

symptoms

## **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)

: Harmful 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

Other information :	Avoid release to the environment.
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
COUMARIN (91-64-5)	
	293 mg/kg
LD50 oral rat	> 5000 mg/kg
Jasmal (18871-14-2)	
Partition coefficient n-octanol/water (Log Pow)	3.2 – 3.7 (at 25 °C)
	> 2000 mg/kg
LD50 oral rat	> 5 g/kg
Geraniol (106-24-1)	
LC50 - Fish [1]	22 mg/l (Exposure time: 96 h - Species: Danio rerio [static])
Partition coefficient n-octanol/water (Log Pow)	2.6 (at 25 °C)
LD50 dermal rabbit	> 5 g/kg
LD50 oral rat	3600 mg/kg
Nerol (106-25-2)	
LC50 - Fish [1]	20.3 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
Partition coefficient n-octanol/water (Log Pow)	2.76 (at 30 °C (at pH 6.5)
LD50 dermal rabbit	> 5 g/kg

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Nusk ketone (81-14-1)	Nerol (106-25-2)		
Partition coefficient n-octanol/water (Log Pow) 4.24 (at 25 °C) LDS0 dermal rabbit 10 g/kg  Exattolide (106-02-5)  Partition coefficient n-octanol/water (Log Pow) 5.79 (at 25 °C (at pH 6.7-6.8)  LDS0 oral rat >5 g/kg  Cashmeran (33704-61-9) LCS0 - Fish [1] 10.3 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static]) BFF - Fish [1] (81 dimensionless (whole body w.w.)  Partition coefficient n-octanol/water (Log Pow) 4.2 (at 20 °C)  Cinnamic atcohol (104-54-1)  Partition coefficient n-octanol/water (Log Pow) 1.636 (at 27 °C (at pH 3.52) LDS0 demai rabbit >5 g/kg  Citronello Pure (106-22-9)  Partition coefficient n-octanol/water (Log Pow) 3.41 (at 25 °C) LDS0 demai rabbit 2650 mg/kg  LDS0 demai rabbit 2650 mg/kg  LDS0 demai rabbit 2650 mg/kg  12.2. Persistence and degradability  Dior Addict  Persistence and degradability Not established.  Cadarwood oil, Texas (6899-83-0)  Persistence and degradability Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C)  Cedarwood oil, Texas (6899-83-0)  Bioaccumulative potential Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C)  Cedarwood oil, Texas (6899-83-0)  Bioaccumulative potential Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C)  Cedarwood oil, Texas (6899-83-0)  Bioaccumulative potential Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow) 3.2 – 3.7 (at 25 °C)  Geraniol (106-24-1)		4500 mg/kg	
Partition coefficient n-octanol/water (Log Pow) 4.24 (at 25 °C) LDS0 dermal rabbit 10 g/kg  Exattolide (106-02-5) Partition coefficient n-octanol/water (Log Pow) 5.79 (at 25 °C (at pH 6.7-6.8) LDS0 oral rat > 5 g/kg  Cashmeran (33704-61-9) LCS0 - Fish [1] 10.3 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static]) BCF - Fish [1] (81 dimensionless (whole body w.w.) Partition coefficient n-octanol/water (Log Pow) 4.2 (at 20 °C) Cinnamic alcohol (104-54-1) Partition coefficient n-octanol/water (Log Pow) 1636 (at 27 °C (at pH 3.52) LDS0 dermal rabbit > 5000 mg/kg  Vettveria zizanoides root oil (8016-96-4) LDS0 oral rat > 5 g/kg  Citronellol Pure (106-22-9) Partition coefficient n-octanol/water (Log Pow) 3.41 (at 25 °C) LDS0 dermal rabbit 2650 mg/kg LDS0 oral rat 3450 mg/kg  12.2. Persistence and degradability Not established.  Persistence and degradability Not established.  12.3. Bioaccumulative potential Not established.  Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) Cedarwood oil, Texas (6899-83-0) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) Cedarwood oil, Texas (6899-83-0) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) Cedarwood oil, Texas (6899-83-0) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) Cedarwood oil, Texas (6899-83-0) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) Cedarwood oil, Texas (6899-83-0) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) Cedarwood oil, Texas (6899-83-0) Partition coefficient n-octanol/water (Log Pow) 3.2 – 3.7 (at 25 °C) Cedarwood oil, Texas (6899-83-0) Partition coefficient n-octanol/water (Log Pow) 3.2 – 3.7 (at 25 °C) Cedarwood oil, Texas (6890-83-0) Partition coefficient n-octanol/water (Log Pow) 3.2 – 3.7 (at 25 °C) Cedarwood oil, Texas (6890-83-0) Partition coefficient n-octanol/water (Log Pow) 3.2 – 3.7 (at 25 °C)	Musk ketone (81-14-1)		
Exaitolide (106-02-5)   Partition coefficient n-octanol/water (Log Pow)   5.79 (at 25 °C (at pH 6.7-6.8)     LD50 oral rat		4.24 (at 25 °C)	
Exaltolide (106-02-5)  Partition coefficient n-octanol/water (Log Pow) 5.79 (at 25 °C (at pH 6.7-6.8)  LD50 oral rat > 5 g/kg  Cashmeran (33704-61-9)  LC50 - Fish [1] 10.3 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])  BCF - Fish [1] (81 dimensionless (whole body w.w.)  Partition coefficient n-octanol/water (Log Pow) 4.2 (at 20 °C)  Cinnamic alcohol (104-54-1)  Partition coefficient n-octanol/water (Log Pow) 1.836 (at 27 °C (at pH 3.52)  LD50 dermal rabbit > 5000 mg/kg  Vetiveria zizanolides root oil (8016-96-4)  LD50 orar at > 5 g/kg  Citronellol Pure (106-22-9)  Partition coefficient n-octanol/water (Log Pow) 3.41 (at 25 °C)  LD50 dermal rabbit 2550 mg/kg  12.2. Persistence and degradability  Dior Addict  Persistence and degradability Not established.  Cetarwood oil, Toxass (68990-83-0)  Persistence and degradability Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C)  Codarwood oil, Toxas (68990-83-0)  Bioaccumulative potential Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C)  Codarwood oil, Toxas (68990-83-0)  Bioaccumulative potential Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C)  Codarwood oil, Toxas (68990-83-0)  Bioaccumulative potential Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C)  Codarwood oil, Toxas (68990-83-0)  Bioaccumulative potential Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C)  Cedarwood oil, Toxas (68990-83-0)  Bioaccumulative potential Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C)  Cedarnol (106-24-1)	LD50 dermal rabbit	> 10 g/kg	
Partition coefficient n-octanol/water (Log Pow)  D5.79 (at 25 °C (at pH 6.7-6.8)  D50 oral rat  > 5 g/kg  Cashmeran (33704-61-9)  LC50 - Fish [1]	LD50 oral rat	10 g/kg	
LD50 oral rat	Exaltolide (106-02-5)		
Cashmeran (33704-61-9)  LC50 - Fish [1]	Partition coefficient n-octanol/water (Log Pow)	5.79 (at 25 °C (at pH 6.7-6.8)	
LCS0 - Fish [1]	LD50 oral rat	> 5 g/kg	
BCF - Fish [1] (81 dimensionless (whole body w.w.)  Partition coefficient n-octanol/water (Log Pow) 4.2 (at 20 °C)  Cinnamic alcohol (104-54-1)  Partition coefficient n-octanol/water (Log Pow) 1.636 (at 27 °C (at pH 3.52)  LD50 dermal rabbit > 5000 mg/kg  Vetiveria zizanoides root oil (8016-96-4)  LD50 oral rat > 5 g/kg  Citronellol Pure (106-22-9)  Partition coefficient n-octanol/water (Log Pow) 3.41 (at 25 °C)  LD50 dermal rabbit 2650 mg/kg  LD50 oral rat 3450 mg/kg  12.2. Persistence and degradability  Dior Addict  Persistence and degradability Not established.  Cedarwood oil, Texas (68990-83-0)  Persistence and degradability Not established.  12.3. Bioaccumulative potential Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C)  Cedarwood oil, Texas (68990-83-0)  Bioaccumulative potential Not established.  Jasmal (18871-14-2)  Partition coefficient n-octanol/water (Log Pow) 3.2 – 3.7 (at 25 °C)  Geraniol (106-24-1)	Cashmeran (33704-61-9)		
Partition coefficient n-octanol/water (Log Pow)  Cinnamic alcohol (104-54-1)  Partition coefficient n-octanol/water (Log Pow)  LD50 dermal rabbit  Vetiveria zizanoides root oil (8016-96-4)  LD50 oral rat  > 5 g/kg  Citronellol Pure (106-22-9)  Partition coefficient n-octanol/water (Log Pow)  LD50 dermal rabbit  2650 mg/kg  LD50 oral rat  2 5660 mg/kg  LD50 oral rat  3 450 mg/kg  12.2. Persistence and degradability  Dior Addict  Persistence and degradability  Not established.  Cedarwood oil, Texas (68990-83-0)  Persistence and degradability  Not established.  Linalyl acctate (115-95-7)  Partition coefficient n-octanol/water (Log Pow)  3.9 (at 25 °C)  Cedarwood oil, Texas (68990-83-0)  Bioaccumulative potential  Not established.  Linalyl acctate (115-95-7)  Partition coefficient n-octanol/water (Log Pow)  3.9 (at 25 °C)  Cedarwood oil, Texas (68990-83-0)  Bioaccumulative potential  Not established.  Jasmal (18871-14-2)  Partition coefficient n-octanol/water (Log Pow)  3.2 – 3.7 (at 25 °C)  Geraniol (106-24-1)	LC50 - Fish [1]	10.3 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])	
Cinnamic alcohol (104-54-1) Partition coefficient n-octanol/water (Log Pow)	BCF - Fish [1]	(81 dimensionless (whole body w.w.)	
Partition coefficient n-octanol/water (Log Pow)  LD50 dermal rabbit  > 5000 mg/kg  Vetiveria zizanoides root oil (8016-96-4)  LD50 oral rat  > 5 g/kg  Citronellol Pure (106-22-9)  Partition coefficient n-octanol/water (Log Pow)  LD50 dermal rabbit  2650 mg/kg  LD50 oral rat  3450 mg/kg  12.2. Persistence and degradability  Dior Addict  Persistence and degradability  Not established.  Cedarwood oil, Texas (68990-83-0)  Persistence and degradability  Not established.  12.3. Bioaccumulative potential  Dior Addict  Bioaccumulative potential  Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow)  Bioaccumulative potential  Not established.  Jasmal (18871-14-2)  Partition coefficient n-octanol/water (Log Pow)  3.2 - 3.7 (at 25 °C)  Geraniol (106-24-1)	Partition coefficient n-octanol/water (Log Pow)	4.2 (at 20 °C)	
LD50 dermal rabbit > 5000 mg/kg  Vetiveria zizanoides root oil (8016-96-4)  LD50 oral rat > 5 g/kg  Citronellol Pure (106-22-9)  Partition coefficient n-octanol/water (Log Pow) 3.41 (at 25 °C)  LD50 dermal rabbit 2650 mg/kg  LD50 oral rat 3450 mg/kg  12.2. Persistence and degradability  Dior Addict  Persistence and degradability Not established.  Cedarwood oil, Texas (68990-83-0)  Persistence and degradability Not established.  12.3. Bioaccumulative potential  Dior Addict  Bioaccumulative potential Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C)  Cedarwood oil, Texas (68990-83-0)  Bioaccumulative potential Not established.  Jasmal (18871-14-2)  Partition coefficient n-octanol/water (Log Pow) 3.2 – 3.7 (at 25 °C)  Geranlol (106-24-1)	Cinnamic alcohol (104-54-1)		
Vetiveria zizanoides root oil (8016-96-4)  LD50 oral rat > 5 g/kg  Citronellol Pure (106-22-9)  Partition coefficient n-octanol/water (Log Pow) 3.41 (at 25 °C)  LD50 dermal rabbit 2650 mg/kg  LD50 oral rat 3450 mg/kg  12.2. Persistence and degradability  Dior Addict  Persistence and degradability Not established.  Cedarwood oil, Texas (68990-83-0)  Persistence and degradability Not established.  12.3. Bioaccumulative potential  Dior Addict  Bioaccumulative potential Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C)  Cedarwood oil, Texas (68990-83-0)  Bioaccumulative potential Not established.  Jasmal (18871-14-2)  Partition coefficient n-octanol/water (Log Pow) 3.2 – 3.7 (at 25 °C)  Geraniol (106-24-1)	Partition coefficient n-octanol/water (Log Pow)	1.636 (at 27 °C (at pH 3.52)	
LD50 oral rat > 5 g/kg  Citronellol Pure (106-22-9)  Partition coefficient n-octanol/water (Log Pow) 3.41 (at 25 °C)  LD50 dermal rabbit 2650 mg/kg  LD50 oral rat 3450 mg/kg  12.2. Persistence and degradability  Dior Addict  Persistence and degradability Not established.  Cedarwood oil, Texas (68990-83-0)  Persistence and degradability Not established.  12.3. Bioaccumulative potential  Dior Addict  Bioaccumulative potential Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C)  Cedarwood oil, Texas (68990-83-0)  Bioaccumulative potential Not established.  Jasmal (18871-14-2)  Partition coefficient n-octanol/water (Log Pow) 3.2 – 3.7 (at 25 °C)  Geraniol (106-24-1)	LD50 dermal rabbit	> 5000 mg/kg	
Citronellol Pure (106-22-9) Partition coefficient n-octanol/water (Log Pow) 3.41 (at 25 °C) LD50 dermal rabbit 2650 mg/kg LD50 oral rat 3450 mg/kg  12.2. Persistence and degradability  Dior Addict Persistence and degradability Not established.  Cedarwood oil, Texas (68990-83-0) Persistence and degradability Not established.  12.3. Bioaccumulative potential  Dior Addict Bioaccumulative potential Not established.  Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C)  Cedarwood oil, Texas (68990-83-0) Bioaccumulative potential Not established.  Jasmal (18871-14-2) Partition coefficient n-octanol/water (Log Pow) 3.2 – 3.7 (at 25 °C)  Geraniol (106-24-1)	Vetiveria zizanoides root oil (8016-96-4)		
Partition coefficient n-octanol/water (Log Pow)  LD50 dermal rabbit  LD50 oral rat  2650 mg/kg  LD50 oral rat  3450 mg/kg  12.2. Persistence and degradability  Dior Addict Persistence and degradability  Not established.  Cedarwood oil, Texas (68990-83-0) Persistence and degradability  Not established.  12.3. Bioaccumulative potential  Dior Addict Bioaccumulative potential  Not established.  Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow)  Bioaccumulative potential  Not established.  Jasmal (18871-14-2) Partition coefficient n-octanol/water (Log Pow)  3.2 – 3.7 (at 25 °C)  Geraniol (106-24-1)	LD50 oral rat	> 5 g/kg	
LD50 dermal rabbit  LD50 oral rat  2650 mg/kg  12.2. Persistence and degradability  Dior Addict  Persistence and degradability  Not established.  Cedarwood oil, Texas (68990-83-0)  Persistence and degradability  Not established.  12.3. Bioaccumulative potential  Dior Addict  Bioaccumulative potential  Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow)  Bioaccumulative potential  Not established.  Jasmal (18871-14-2)  Partition coefficient n-octanol/water (Log Pow)  3.2 – 3.7 (at 25 °C)  Geraniol (106-24-1)	Citronellol Pure (106-22-9)		
12.2. Persistence and degradability  Dior Addict Persistence and degradability  Not established.  Cedarwood oil, Texas (68990-83-0) Persistence and degradability  Not established.  12.3. Bioaccumulative potential  Dior Addict Bioaccumulative potential  Not established.  Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow)  Bioaccumulative potential  Not established.  Jasmal (18871-14-2) Partition coefficient n-octanol/water (Log Pow)  3.9 (at 25 °C)  Geraniol (106-24-1)	Partition coefficient n-octanol/water (Log Pow)	3.41 (at 25 °C)	
12.2. Persistence and degradability  Dior Addict  Persistence and degradability  Not established.  Cedarwood oil, Texas (68990-83-0)  Persistence and degradability  Not established.  12.3. Bioaccumulative potential  Dior Addict  Bioaccumulative potential  Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow)  3.9 (at 25 °C)  Cedarwood oil, Texas (68990-83-0)  Bioaccumulative potential  Not established.  Jasmal (18871-14-2)  Partition coefficient n-octanol/water (Log Pow)  3.2 – 3.7 (at 25 °C)  Geraniol (106-24-1)	LD50 dermal rabbit	2650 mg/kg	
Dior Addict Persistence and degradability  Cedarwood oil, Texas (68990-83-0) Persistence and degradability  Not established.  12.3. Bioaccumulative potential  Dior Addict Bioaccumulative potential  Not established.  Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow)  3.9 (at 25 °C)  Cedarwood oil, Texas (68990-83-0) Bioaccumulative potential  Not established.  Jasmal (18871-14-2) Partition coefficient n-octanol/water (Log Pow)  3.2 – 3.7 (at 25 °C)  Geraniol (106-24-1)	LD50 oral rat	3450 mg/kg	
Persistence and degradability  Cedarwood oil, Texas (68990-83-0)  Persistence and degradability  Not established.  12.3. Bioaccumulative potential  Dior Addict  Bioaccumulative potential  Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow)  Cedarwood oil, Texas (68990-83-0)  Bioaccumulative potential  Not established.  Jasmal (18871-14-2)  Partition coefficient n-octanol/water (Log Pow)  3.2 – 3.7 (at 25 °C)  Geraniol (106-24-1)	12.2. Persistence and degradability		
Cedarwood oil, Texas (68990-83-0) Persistence and degradability  Not established.  12.3. Bioaccumulative potential  Dior Addict Bioaccumulative potential  Not established.  Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow)  3.9 (at 25 °C)  Cedarwood oil, Texas (68990-83-0) Bioaccumulative potential  Not established.  Jasmal (18871-14-2) Partition coefficient n-octanol/water (Log Pow)  3.2 – 3.7 (at 25 °C)  Geraniol (106-24-1)	Dior Addict		
Persistence and degradability  12.3. Bioaccumulative potential  Dior Addict  Bioaccumulative potential  Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow)  Cedarwood oil, Texas (68990-83-0)  Bioaccumulative potential  Not established.  Jasmal (18871-14-2)  Partition coefficient n-octanol/water (Log Pow)  3.2 – 3.7 (at 25 °C)  Geraniol (106-24-1)	Persistence and degradability	Not established.	
12.3. Bioaccumulative potential  Dior Addict  Bioaccumulative potential  Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow)  Cedarwood oil, Texas (68990-83-0)  Bioaccumulative potential  Not established.  Jasmal (18871-14-2)  Partition coefficient n-octanol/water (Log Pow)  3.2 – 3.7 (at 25 °C)  Geraniol (106-24-1)	Cedarwood oil, Texas (68990-83-0)		
Dior Addict  Bioaccumulative potential Not established.  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C)  Cedarwood oil, Texas (68990-83-0)  Bioaccumulative potential Not established.  Jasmal (18871-14-2)  Partition coefficient n-octanol/water (Log Pow) 3.2 – 3.7 (at 25 °C)  Geraniol (106-24-1)	Persistence and degradability	Not established.	
Bioaccumulative potential  Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow)  Cedarwood oil, Texas (68990-83-0)  Bioaccumulative potential  Not established.  Jasmal (18871-14-2)  Partition coefficient n-octanol/water (Log Pow)  3.9 (at 25 °C)  Not established.  Jasmal (18871-14-2)  Partition coefficient n-octanol/water (Log Pow)  3.2 – 3.7 (at 25 °C)	12.3. Bioaccumulative potential		
Linalyl acetate (115-95-7)  Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C)  Cedarwood oil, Texas (68990-83-0)  Bioaccumulative potential Not established.  Jasmal (18871-14-2)  Partition coefficient n-octanol/water (Log Pow) 3.2 – 3.7 (at 25 °C)  Geraniol (106-24-1)	Dior Addict		
Partition coefficient n-octanol/water (Log Pow)  Cedarwood oil, Texas (68990-83-0)  Bioaccumulative potential  Not established.  Jasmal (18871-14-2)  Partition coefficient n-octanol/water (Log Pow)  3.2 – 3.7 (at 25 °C)  Geraniol (106-24-1)	Bioaccumulative potential	Not established.	
Cedarwood oil, Texas (68990-83-0)  Bioaccumulative potential Not established.  Jasmal (18871-14-2)  Partition coefficient n-octanol/water (Log Pow) 3.2 – 3.7 (at 25 °C)  Geraniol (106-24-1)	Linalyl acetate (115-95-7)		
Bioaccumulative potential  Not established.  Jasmal (18871-14-2)  Partition coefficient n-octanol/water (Log Pow)  3.2 – 3.7 (at 25 °C)  Geraniol (106-24-1)	Partition coefficient n-octanol/water (Log Pow)	3.9 (at 25 °C)	
Jasmal (18871-14-2)Partition coefficient n-octanol/water (Log Pow)3.2 – 3.7 (at 25 °C)Geraniol (106-24-1)	Cedarwood oil, Texas (68990-83-0)		
Partition coefficient n-octanol/water (Log Pow)  3.2 – 3.7 (at 25 °C)  Geraniol (106-24-1)		Not established.	
Geraniol (106-24-1)	Jasmal (18871-14-2)		
	Partition coefficient n-octanol/water (Log Pow)	3.2 – 3.7 (at 25 °C)	
Partition coefficient n-octanol/water (Log Pow) 2.6 (at 25 °C)	Geraniol (106-24-1)		
	Partition coefficient n-octanol/water (Log Pow)	2.6 (at 25 °C)	

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Nerol (106-25-2)		
Partition coefficient n-octanol/water (Log Pow)	2.76 (at 30 °C (at pH 6.5)	
Musk ketone (81-14-1)		
Partition coefficient n-octanol/water (Log Pow)	4.24 (at 25 °C)	
Exaltolide (106-02-5)		
Partition coefficient n-octanol/water (Log Pow)	5.79 (at 25 °C (at pH 6.7-6.8)	
Cashmeran (33704-61-9)		
BCF - Fish [1]	(81 dimensionless (whole body w.w.)	
Partition coefficient n-octanol/water (Log Pow)	4.2 (at 20 °C)	
Cinnamic alcohol (104-54-1)		
Partition coefficient n-octanol/water (Log Pow)	1.636 (at 27 °C (at pH 3.52)	
Citronellol Pure (106-22-9)		
Partition coefficient n-octanol/water (Log Pow)	3.41 (at 25 °C)	
42.4 Mobility in coil		

## 12.4. Mobility in soil

Dior Addict		
Mobility in soil	No additional information available	
Linalyl acetate (115-95-7)		
Partition coefficient n-octanol/water (Log Pow)	3.9 (at 25 °C)	
Jasmal (18871-14-2)		
Partition coefficient n-octanol/water (Log Pow)	3.2 – 3.7 (at 25 °C)	
Geraniol (106-24-1)		
Partition coefficient n-octanol/water (Log Pow)	2.6 (at 25 °C)	
Nerol (106-25-2)		
Partition coefficient n-octanol/water (Log Pow)	2.76 (at 30 °C (at pH 6.5)	
Musk ketone (81-14-1)		
Partition coefficient n-octanol/water (Log Pow)	4.24 (at 25 °C)	
Exaltolide (106-02-5)		
Partition coefficient n-octanol/water (Log Pow)	5.79 (at 25 °C (at pH 6.7-6.8)	
Cashmeran (33704-61-9)		
Partition coefficient n-octanol/water (Log Pow)	4.2 (at 20 °C)	
Cinnamic alcohol (104-54-1)		
Partition coefficient n-octanol/water (Log Pow)	1.636 (at 27 °C (at pH 3.52)	
Citronellol Pure (106-22-9)		
Partition coefficient n-octanol/water (Log Pow)	3.41 (at 25 °C)	

## 12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

## Safety Data Sheet

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

#### **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

Not regulated for transport

## 14.2. UN proper shipping name

Proper Shipping Name (UN RTDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

## 14.3. Transport hazard class(es)

**UN RTDG** 

Transport hazard class(es) (UN RTDG) : Not applicable

**IMDG** 

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

## 14.4. Packing group

Packing group (UN RTDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

## 14.5. Emergency telephone number

Dangerous for the environment : False Marine pollutant : No

Other information : No supplementary information available

## 14.6. Special precautions for user

#### Transport by road and rail

No data available

#### Transport by sea

No data available

## Air transport

No data available

## 14.7. Transport in bulk according to IMO instruments

Not applicable

#### 14.8. Hazchem or Emergency Action Code

Not applicable

## Safety Data Sheet

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

## **SECTION 15: Regulatory information**

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

## 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

## **COUMARIN (91-64-5)**

**Hazardous Substances and New Organisms Act** 

HSNO Approval Number HSR003237

## **Geraniol (106-24-1)**

**Hazardous Substances and New Organisms Act** 

HSNO Approval Number HSR003176

## Cinnamic alcohol (104-54-1)

**Hazardous Substances and New Organisms Act** 

HSNO Approval Number HSR003482

#### Citronellol Pure (106-22-9)

**Hazardous Substances and New Organisms Act** 

HSNO Approval Number HSR003483

## 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. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard Category 1	
Aquatic Acute 3	Hazardous to the aquatic environment – Acute Hazard Category 3	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard Category 2	

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Full text of H-phrases	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Hazardous to terrestrial vertebrates	Hazardous to terrestrial vertebrates
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, Category 1B
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
H226	Flammable liquid and vapour
H227	Combustible liquid
H301	Toxic if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
H434	Hazardous 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