



**Safety Data Sheet dated 19/5/2022, version 7**

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

1.1. Product identifier

Mixture identification:

Trade name: ZEN ESSENCE GEISHA

Trade code: 1796

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

Recommended use:

Car air freshener

1.3. Details of the supplier of the safety data sheet

Supplier:

Arexons S.p.A.

via Antica di Cassano, 23, 20063

Cernusco sul Naviglio (MI), Italy

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Competent person responsible for the safety data sheet:

arexons@arexons.it

1.4. Emergency telephone number

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

In Ireland: Beaumont Hospital - National Poisons Information Centre 01 809 2166 (7days, 8:00 - 22:00)

In South Africa: Poison Information Helpline 0861 555 777

In Malta: emergency number 112

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**SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

⚠ Warning, Skin Irrit. 2, Causes skin irritation.

⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.

⚠ Warning, Skin Sens. 1B, May cause an allergic skin reaction.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

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P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with applicable regulations.

### Special Provisions:

EUH208 Contains Linalyl acetate. May produce an allergic reaction.  
EUH208 Contains 3,4,5,6,6,PENTAMETHYLHEPT-3-EN-2-ONE (and isomers). May produce an allergic reaction.  
EUH208 Contains CIS-P-MENTHAN-7-OL. May produce an allergic reaction.  
EUH208 Contains 2-Methylundecanal. May produce an allergic reaction.  
EUH208 Contains TERPINEOL. May produce an allergic reaction.  
EUH208 Contains 2-METHOXY-4-(PROP-1-ENYL) PHENOL. May produce an allergic reaction.

### Contains

Linalool

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

### Other Hazards:

No other hazards

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## SECTION 3: Composition/information on ingredients

### 3.1. Substances

N.A.

### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

$\geq 40\%$  -  $< 50\%$  DIPROPYLENEGLYCOL MONOMETHYLETHER  
REACH No.: 01-2119450011-60, CAS: 34590-94-8, EC: 252-104-2  
Substance with a Union workplace exposure limit.

$\geq 10\%$  -  $< 12.5\%$  1-HEXANOL,3,5,5-TRIMETHYL-,1 ACETATE  
REACH No.: 01-2119972325-34, CAS: 58430-94-7, EC: 261-245-9  
⚠ 3.2/2 Skin Irrit. 2 H315  
⚠ 4.1/C2 Aquatic Chronic 2 H411

$\geq 7\%$  -  $< 10\%$  Phenylethyl alcohol  
REACH No.: 01-2119963921-31, CAS: 60-12-8, EC: 200-456-2  
⚠ 3.1/4/Oral Acute Tox. 4 H302  
⚠ 3.3/2 Eye Irrit. 2 H319

$\geq 3\%$  -  $< 5\%$  3-methyl-h-(2,2,3-trimethyl-3-cyclopenten-1-yl)-4-penten-2-ol (& isomers)  
REACH No.: 01-2119940039-39, CAS: 67801-20-1, EC: 267-140-4  
⚠ 4.1/C2 Aquatic Chronic 2 H411

$\geq 3\%$  -  $< 5\%$  BENZYL ACETATE  
REACH No.: 01-2119638272-42, CAS: 140-11-4, EC: 205-399-7  
4.1/C3 Aquatic Chronic 3 H412

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- >= 3% - < 5% Linalyl acetate  
REACH No.: 01-2119454789-19, CAS: 115-95-7, EC: 204-116-4
  - ⚠ 3.2/2 Skin Irrit. 2 H315
  - ⚠ 3.4.2/1 Skin Sens. 1 H317
  - ⚠ 3.3/2 Eye Irrit. 2 H319
  
- >= 2% - < 3% Linalool  
REACH No.: 01-2119474016-42, CAS: 78-70-6, EC: 201-134-4
  - ⚠ 3.2/2 Skin Irrit. 2 H315
  - ⚠ 3.4.2/1B Skin Sens. 1B H317
  - ⚠ 3.3/2 Eye Irrit. 2 H319
  
- >= 1% - < 2% 3-Methyl-5-phenyl-1-pentanol  
REACH No.: 01-2119969446-23, CAS: 55066-48-3, EC: 259-461-3
  - ⚠ 3.9/2 STOT RE 2 H373
  - ⚠ 3.1/4/Oral Acute Tox. 4 H302
  
- >= 1% - < 2% 3,4,5,6,6,PENTAMETHYLHEPT-3-EN-2-ONE (and isomers)  
REACH No.: 01-2119980043-42, CAS: 81786-75-6, EC: 279-825-5
  - ⚠ 3.4.2/1 Skin Sens. 1 H317
  - ⚠ 4.1/C2 Aquatic Chronic 2 H411
  
- >= 1% - < 2% Tetrahydro-4-methyl-2-(2-methylpropyl)-2H-pyran-4-ol  
REACH No.: 01-0000015458-64, CAS: 63500-71-0, EC: 405-040-6
  - ⚠ 3.3/2 Eye Irrit. 2 H319
  
- >= 0.5% - < 1% TERPINEOL  
REACH No.: 01-2119553062-49, CAS: 8000-41-7, EC: 232-268-1
  - ⚠ 3.2/2 Skin Irrit. 2 H315
  - ⚠ 3.4.2/1 Skin Sens. 1 H317
  - ⚠ 4.1/C2 Aquatic Chronic 2 H411
  - ⚠ 3.3/2 Eye Irrit. 2 H319
  
- >= 0.5% - < 1% p-METILANISOLE  
REACH No.: 01-2119513371-52, CAS: 104-93-8, EC: 203-253-7
  - ⚠ 3.1/4/Oral Acute Tox. 4 H302
  - ⚠ 3.2/2 Skin Irrit. 2 H315
  - ⚠ 3.7/2 Repr. 2 H361
  
- >= 0.5% - < 1% 2-Methylundecanal  
REACH No.: 01-2119969443-29, CAS: 110-41-8, EC: 203-765-0
  - ⚠ 3.2/2 Skin Irrit. 2 H315
  - ⚠ 3.4.2/1B Skin Sens. 1B H317
  - ⚠ 4.1/A1 Aquatic Acute 1 H400 M=1.
  - ⚠ 4.1/C1 Aquatic Chronic 1 H410 M=1.
  
- >= 0.5% - < 1% 3-Decen-5-ol, 4-methyl-  
REACH No.: 01-2119983528-21, CAS: 81782-77-6, EC: 279-815-0
  - ⚠ 4.1/A1 Aquatic Acute 1 H400
  
- >= 0.5% - < 1% CIS-P-MENTHAN-7-OL  
REACH No.: 01-2119983532-32, CAS: 5502-75-0, EC: 237-539-8
  - ⚠ 3.2/2 Skin Irrit. 2 H315
  - ⚠ 3.4.2/1B Skin Sens. 1B H317
  
- >= 0.01% - < 0.02% 2-METHOXY-4-(PROP-1-ENYL) PHENOL

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- CAS: 97-54-1, EC: 202-590-7
- ⚠ 3.1/4/Dermal Acute Tox. 4 H312
  - ⚠ 3.1/4/Oral Acute Tox. 4 H302
  - ⚠ 3.2/2 Skin Irrit. 2 H315
  - ⚠ 3.3/2 Eye Irrit. 2 H319
  - ⚠ 3.4.2/1A Skin Sens. 1A H317

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately and dispose off safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

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

None

#### 4.3. Indication of any immediate medical attention and special treatment needed

- In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Appropriate Extinguishing Media:

To carbon dioxide.

To water.

Not Recommended Extinguishing Media:

#### 5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

#### 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

#### 6.2. Environmental precautions

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Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
Retain contaminated washing water and dispose it.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.  
Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

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## SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Do not store this material near food and drinks.

Keep away from food, drink and feed.

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

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## SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DIPROPYLENEGLYCOL MONOMETHYLETHER - CAS: 34590-94-8

EU - TWA(8h): 308 mg/m<sup>3</sup>, 50 ppm - Notes: Skin

ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: Skin - Eye and URT irr, CNS impair

BENZYL ACETATE - CAS: 140-11-4

ACGIH - TWA(8h): 10 ppm - Notes: A4 - URT irr

DNEL Exposure Limit Values

BENZYL ACETATE - CAS: 140-11-4

Worker Industry: 21.9 mg/m<sup>3</sup> - Consumer: 5.5 mg/m<sup>3</sup> - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects - Notes: ECHA

Worker Industry: 6.25 mg/kg - Consumer: 3.125 mg/kg - Exposure: Human Dermal -

Frequency: Long Term, systemic effects - Notes: ECHA

Consumer: 3.125 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: ECHA

Linalyl acetate - CAS: 115-95-7

Worker Industry: 2.75 mg/m<sup>3</sup> - Consumer: 0.68 mg/m<sup>3</sup> - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects - Notes: ECHA

Worker Industry: 2.5 mg/kg - Consumer: 1.25 mg/kg - Exposure: Human Dermal -

Frequency: Long Term, systemic effects - Notes: ECHA

Consumer: 0.2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: ECHA

Linalool - CAS: 78-70-6

Worker Industry: 2.8 mg/m<sup>3</sup> - Consumer: 0.7 mg/m<sup>3</sup> - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Worker Industry: 2.5 mg/m<sup>3</sup> - Consumer: 1.25 mg/kg - Exposure: Human Dermal -

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Frequency: Long Term, systemic effects - Notes: ECHA  
 Consumer: 0.2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects  
 Tetrahydro-4-methyl-2-(2-methylpropyl)-2H-pyran-4-ol - CAS: 63500-71-0  
 Worker Industry: 12.2 mg/m<sup>3</sup> - Consumer: 3.62 mg/m<sup>3</sup> - Exposure: Human Inhalation -  
 Frequency: Long Term, systemic effects - Notes: ECHA  
 Worker Industry: 3.47 mg/kg - Consumer: 2.08 mg/kg - Exposure: Human Dermal -  
 Frequency: Long Term, systemic effects - Notes: ECHA  
 Consumer: 1.04 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects  
 - Notes: ECHA

PNEC Exposure Limit Values  
 N.A.

8.2. Exposure controls

Eye protection:

Safety goggles.  
 Compliant with EN 166

Protection for skin:

protective clothing

Protection for hands:

Neoprene.  
 Nitrile.  
 PVC (polyvinyl chloride).  
 Compliant with EN 374.

Respiratory protection:

Not required under normal conditions of use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

**SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Physical state:	Liquid	--	--
Colour:	Colourless	--	--
Odour:	Characteristic	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	>61°C	--	--
Auto-ignition temperature:	N.A.	--	--

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Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	0,923	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information  
No other relevant information

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#### SECTION 10: Stability and reactivity

- 10.1. Reactivity  
Stable under normal conditions
- 10.2. Chemical stability  
Stable under normal conditions
- 10.3. Possibility of hazardous reactions  
None
- 10.4. Conditions to avoid  
Stable under normal conditions.
- 10.5. Incompatible materials  
None in particular.
- 10.6. Hazardous decomposition products  
None.

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#### SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

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a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

c) serious eye damage/irritation

The product is classified: Eye Irrit. 2 H319

d) respiratory or skin sensitisation

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The product is classified: Skin Sens. 1B H317

- e) germ cell mutagenicity  
Not classified  
Based on available data, the classification criteria are not met
- f) carcinogenicity  
Not classified  
Based on available data, the classification criteria are not met
- g) reproductive toxicity  
Not classified  
Based on available data, the classification criteria are not met
- h) STOT-single exposure  
Not classified  
Based on available data, the classification criteria are not met
- i) STOT-repeated exposure  
Not classified  
Based on available data, the classification criteria are not met
- j) aspiration hazard  
Not classified  
Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

DIPROPYLENEGLYCOL MONOMETHYLETHER - CAS: 34590-94-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 8740 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 9510 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat 3404 mg/kg

1-HEXANOL,3,5,5-TRIMETHYL-,1 ACETATE - CAS: 58430-94-7

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4250 mg/kg - Notes: OECD 401

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg - Notes: OECD 402

Phenylethyl alcohol - CAS: 60-12-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 2234 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 2535 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 4.63 mg/l

g) reproductive toxicity:

Test: NOAEL 439 mg/kg

3-methyl-h-(2,2,3-trimethyl-3-cyclopenten-1-yl)-4-penten-2-ol (& isomers) - CAS: 67801-20-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

BENZYL ACETATE - CAS: 140-11-4

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 2490 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 0.77 mg/l - Duration: 8h

g) reproductive toxicity:

Test: NOAEL 1000 mg/kg

Linalyl acetate - CAS: 115-95-7

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 9000 mg/kg

Test: LD50 - Route: Oral - Species: Mouse = 12000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

g) reproductive toxicity:

Test: NOAEL 500 mg/kg

Linalool - CAS: 78-70-6

a) acute toxicity:



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- Test: LD50 - Route: Oral - Species: Rat 2790 mg/kg  
Test: LD50 - Route: Oral - Species: Mouse 2200 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit 5610 mg/kg  
3-Methyl-5-phenyl-1-pentanol - CAS: 55066-48-3  
a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat 2300 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit 2300 mg/kg  
3,4,5,6,6,PENTAMETHYLHEPT-3-EN-2-ONE (and isomers) - CAS: 81786-75-6  
a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 6100 mg/kg  
Test: LD50 - Route: Oral - Species: Rat = 2400 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg  
Tetrahydro-4-methyl-2-(2-methylpropyl)-2H-pyran-4-ol - CAS: 63500-71-0  
a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat > 5000  
Test: LD50 - Route: Skin - Species: Rabbit > 2000  
b) skin corrosion/irritation:  
Test: Skin Irritant - Route: Skin - Species: Rabbit Negative  
TERPINEOL - CAS: 8000-41-7  
a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg  
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg  
Test: LC50 - Route: Inhalation - Species: Rat > 4.76 mg/l  
b) skin corrosion/irritation:  
Test: Skin Irritant - Route: Skin - Species: Rabbit Positive - Duration: 24h  
g) reproductive toxicity:  
Test: NOAEL 600 mg/kg  
2-Methylundecanal - CAS: 110-41-8  
a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg  
3-Decen-5-ol, 4-methyl- - CAS: 81782-77-6  
a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat > 8000 mg/kg  
CIS-P-MENTHAN-7-OL - CAS: 5502-75-0  
a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat > 10000 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

#### 11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

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## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

DIPROPYLENEGLYCOL MONOMETHYLETHER - CAS: 34590-94-8

#### a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96

Endpoint: LC50 - Species: Daphnia = 1919 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 969 mg/l - Duration h: 72

#### b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia 0.5 mg/l - Duration h: 72

1-HEXANOL,3,5,5-TRIMETHYL-,1 ACETATE - CAS: 58430-94-7

#### a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia > 5.4 mg/l - Duration h: 24 - Notes: OECD 202

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- Endpoint: EC50 - Species: Algae > 3.8 mg/l - Duration h: 72  
Endpoint: LC50 - Species: Fish = 7.7 mg/l - Duration h: 96 - Notes: OECD 203
- Phenylethyl alcohol - CAS: 60-12-8
- a) Aquatic acute toxicity:  
Endpoint: EC50 - Species: Daphnia 287.17 mg/l - Duration h: 48
- 3-methyl-h-(2,2,3-trimethyl-3-cyclopenten-1-yl)-4-penten-2-ol (& isomers) - CAS: 67801-20-1
- a) Aquatic acute toxicity:  
Endpoint: LC50 - Species: Fish 2.3 mg/l - Duration h: 96  
Endpoint: EC50 - Species: Daphnia 1.9 mg/l - Duration h: 48  
Endpoint: EC50 - Species: Algae 24 mg/l - Duration h: 72
- BENZYL ACETATE - CAS: 140-11-4
- a) Aquatic acute toxicity:  
Endpoint: LC50 - Species: Fish = 4 mg/l - Duration h: 96  
Endpoint: EC50 - Species: Daphnia = 17 mg/l - Duration h: 48  
Endpoint: EC50 - Species: Algae = 92 mg/l - Duration h: 72
- b) Aquatic chronic toxicity:  
Endpoint: NOEC - Species: Fish = 0.92 mg/l
- Linalyl acetate - CAS: 115-95-7
- a) Aquatic acute toxicity:  
Endpoint: LC50 - Species: Fish = 11 mg/l - Duration h: 96  
Endpoint: EC50 - Species: Daphnia = 15 mg/l - Duration h: 48  
Endpoint: NOEC - Species: Algae = 9.6 mg/l - Duration h: 72
- Linalool - CAS: 78-70-6
- a) Aquatic acute toxicity:  
Endpoint: LC50 - Species: Fish 27.8 mg/l - Duration h: 96 - Notes: OECD 203  
Endpoint: EC50 - Species: Daphnia 59 mg/l - Duration h: 48 - Notes: OECD TG 202  
Endpoint: EC50 - Species: Algae 156.7 mg/l - Duration h: 96
- 3,4,5,6,6,PENTAMETHYLHEPT-3-EN-2-ONE (and isomers) - CAS: 81786-75-6
- a) Aquatic acute toxicity:  
Endpoint: LC50 - Species: Fish 4.8 mg/l - Duration h: 96  
Endpoint: EC50 - Species: Daphnia 6.1 mg/l - Duration h: 48  
Endpoint: EC50 - Species: Algae 21 mg/l - Duration h: 72  
Endpoint: NOEC - Species: Algae 12 mg/l
- Tetrahydro-4-methyl-2-(2-methylpropyl)-2H-pyran-4-ol - CAS: 63500-71-0
- a) Aquatic acute toxicity:  
Endpoint: LC50 - Species: Fish = 354 mg/l - Duration h: 96 - Notes: OECD 203  
Endpoint: EC50 - Species: Daphnia = 320 mg/l - Duration h: 48 - Notes: OECD 203  
Endpoint: NOEC - Species: Algae = 94 mg/l - Duration h: 72 - Notes: OECD 203
- TERPINEOL - CAS: 8000-41-7
- a) Aquatic acute toxicity:  
Endpoint: EC50 - Species: Daphnia = 73 mg/l - Duration h: 48  
Endpoint: EC50 - Species: Algae = 68 mg/l - Duration h: 72  
Endpoint: LC50 - Species: Fish = 62 mg/l
- 2-Methylundecanal - CAS: 110-41-8
- a) Aquatic acute toxicity:  
Endpoint: LC50 - Species: Fish = 0.35 mg/l - Duration h: 96  
Endpoint: EC50 - Species: Daphnia = 0.21 mg/l - Duration h: 48  
Endpoint: EC50 - Species: Algae = 0.18 mg/l - Duration h: 72  
Endpoint: NOEC - Species: Algae = 0.089 mg/l - Duration h: 72
- 3-Decen-5-ol, 4-methyl- - CAS: 81782-77-6
- a) Aquatic acute toxicity:  
Endpoint: LC50 - Species: Fish 3 mg/l - Duration h: 96  
Endpoint: EC50 - Species: Daphnia 0.4 mg/l - Duration h: 48  
Endpoint: EC50 - Species: Algae 3.6 mg/l - Duration h: 72
- CIS-P-MENTHAN-7-OL - CAS: 5502-75-0
- a) Aquatic acute toxicity:

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Endpoint: EC50 - Species: Daphnia 13 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae 10 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish 4.2 mg/l - Duration h: 96

#### 12.2. Persistence and degradability

None

Linalyl acetate - CAS: 115-95-7

Biodegradability: Readily biodegradable - Test: BIOGDG06 - Duration: 28gg - %: 76

Linalool - CAS: 78-70-6

Biodegradability: Readily biodegradable - Test: BIOGDG08 - Duration: 28gg - %: 64.2

p-METILANISOLE - CAS: 104-93-8

Test: BIOGDG10 - %: 30 - Notes: >30%

2-Methylundecanal - CAS: 110-41-8

Biodegradability: Readily biodegradable - Test: BIOGDG10 - Duration: 28gg - %: 60

3-Decen-5-ol, 4-methyl- - CAS: 81782-77-6

Biodegradability: Readily biodegradable - Test: BIOGDG10 - %: 73

#### 12.3. Bioaccumulative potential

N.A.

#### 12.4. Mobility in soil

N.A.

#### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

#### 12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

#### 12.7. Other adverse effects

None

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

Additional disposal information:

Reuse if possible. Act in accordance with the local and national laws in force.

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### SECTION 14: Transport information

#### 14.1. UN number or ID number

UN number: UN 1266

ADR/RID/ADN-UN Number: UN 1266

ADR/RID-UN Number: UN 1266

ADR/ADN-UN Number: UN 1266

Not classified as dangerous in the meaning of transport regulations.

#### 14.2. UN proper shipping name

N.A.

#### 14.3. Transport hazard class(es)

N.A.

#### 14.4. Packing group

N.A.

#### 14.5. Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

#### 14.6. Special precautions for user

N.A.

#### 14.7. Maritime transport in bulk according to IMO instruments

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N.A.

### SECTION 15: Regulatory information

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

- Dir. 98/24/EC (Risks related to chemical agents at work)
- Dir. 2000/39/EC (Occupational exposure limit values)
- Regulation (EC) n. 1907/2006 (REACH)
- Regulation (EC) n. 1272/2008 (CLP)
- Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
- Regulation (EU) n. 2020/878
- Regulation (EU) n. 286/2011 (ATP 2 CLP)
- Regulation (EU) n. 618/2012 (ATP 3 CLP)
- Regulation (EU) n. 487/2013 (ATP 4 CLP)
- Regulation (EU) n. 944/2013 (ATP 5 CLP)
- Regulation (EU) n. 605/2014 (ATP 6 CLP)
- Regulation (EU) n. 2015/1221 (ATP 7 CLP)
- Regulation (EU) n. 2016/918 (ATP 8 CLP)
- Regulation (EU) n. 2016/1179 (ATP 9 CLP)
- Regulation (EU) n. 2017/776 (ATP 10 CLP)
- Regulation (EU) n. 2018/669 (ATP 11 CLP)
- Regulation (EU) n. 2018/1480 (ATP 13 CLP)
- Regulation (EU) n. 2019/521 (ATP 12 CLP)
- Regulation (EU) n. 2020/217 (ATP 14 CLP)
- Regulation (EU) n. 2020/1182 (ATP 15 CLP)
- Regulation (EU) n. 2021/643 (ATP 16 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restrictions related to the substances contained:

Restriction 40

Restriction 75

Volatile Organic compounds - VOCs = 60.99 %

Volatile Organic compounds - VOCs = 609.90 g/Kg

Volatile Organic compounds - VOCs = 562.94 g/l

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

None

### SECTION 16: Other information

Text of phrases referred to under heading 3:

H315 Causes skin irritation.

H411 Toxic to aquatic life with long lasting effects.

H302 Harmful if swallowed.

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H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.  
H317 May cause an allergic skin reaction.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H361 Suspected of damaging fertility or the unborn child.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H312 Harmful in contact with skin.

<b>Hazard class and hazard category</b>	<b>Code</b>	<b>Description</b>
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
Repr. 2	3.7/2	Reproductive toxicity, Category 2
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking  
SECTION 3: Composition/information on ingredients  
SECTION 11: Toxicological information  
SECTION 12: Ecological information  
SECTION 14: Transport information  
SECTION 15: Regulatory information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

<b>Classification according to Regulation (EC) Nr. 1272/2008</b>	<b>Classification procedure</b>
Skin Irrit. 2, H315	Calculation method

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Eye Irrit. 2, H319	Calculation method
Skin Sens. 1B, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van  
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NA:	Not applicable
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.