

Safety Data Sheet

ZEN ESSENCE FIORI PAPAVERO ML4,5



Safety Data Sheet dated 4/7/2019, version 4

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

1.1. Product identifier

Mixture identification:

Trade name: ZEN ESSENCE FIORI PAPAVERO ML4,5
Trade code: 1796

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

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
Centro Antiveleni di Pavia IRCCS- Fondazione Maugeri tel. +39 (0)382 24444 (h24; it, en)
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

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.
- P102 Keep out of reach of children.
- P103 Read label before use.
- P261 Avoid breathing vapours.

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P273 Avoid release to the environment.
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:

None

Contains

Linalool

Linalyl acetate: May produce an allergic reaction.

3,4,5,6,6,PENTAMETHYLHEPT-3-EN-2-ONE (and isomers): May produce an allergic reaction.

CIS-P-MENTHAN-7-OL: May produce an allergic reaction.

2-Methylundecanal: May produce an allergic reaction.

TERPINEOL: May produce an allergic reaction.

2-METHOXY-4-(PROP-1-ENYL) PHENOL: May produce an allergic reaction.

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

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

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:

>= 40% - < 50% DIPROPYLENEGLYCOL MONOMETHYLETHER

CAS: 34590-94-8, EC: 252-104-2

Substance with a Union workplace exposure limit.

>= 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

>= 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

>= 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

>= 3% - < 5% BENZYL ACETATE

REACH No.: 01-2119638272-42, CAS: 140-11-4, EC: 205-399-7

4.1/C3 Aquatic Chronic 3 H412

>= 3% - < 5% Linalyl acetate

REACH No.: 01-2119454789-19, CAS: 115-95-7, EC: 204-116-4

⚠ 3.2/2 Skin Irrit. 2 H315



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- ⚠ 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

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

CAS: 104-93-8, EC: 203-253-7

- ⚠ 2.6/3 Flam. Liq. 3 H226
- ⚠ 3.1/4/Oral Acute Tox. 4 H302
- ⚠ 3.2/2 Skin Irrit. 2 H315
- ⚠ 3.7/2 Repr. 2 H361
- 4.1/C3 Aquatic Chronic 3 H412

>= 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: 13828-37-0, EC: 237-539-8

- ⚠ 3.4.2/1B Skin Sens. 1B H317

>= 0.01% - < 0.02% 2-METHOXY-4-(PROP-1-ENYL) PHENOL

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

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- ◊ 3.3/2 Eye Irrit. 2 H319
- ◊ 3.4.2/1A Skin Sens. 1A H317

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

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.

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

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.

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- 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

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

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
DIPROPYLENEGLYCOL MONOMETHYLETHER - CAS: 34590-94-8
EU - TWA(8h): 308 mg/m³, 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/m³ - Consumer: 5.5 mg/m³ - 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/m³ - Consumer: 0.68 mg/m³ - 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/m³ - Consumer: 0.7 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 2.5 mg/m³ - 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
- Tetrahydro-4-methyl-2-(2-methylpropyl)-2H-pyran-4-ol - CAS: 63500-71-0
Worker Industry: 12.2 mg/m³ - Consumer: 3.62 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Notes: ECHA

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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:
Appearance and colour:	Liquid Colourless	--	--
Odour:	Characteristic	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	N.A.	--	--
Flash point:	>61°C	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--

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Vapour density:	N.A.	--	--
Relative density:	0,923	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	N.A.	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

NA=not applicable

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.

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
Toxicological information of the product:
ZEN ESSENCE FIORI PAPAVERO ML4,5
a) acute toxicity

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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
The product is classified: Skin Sens. 1B H317
- e) germ cell mutagenicity

Based on available data, the classification criteria are not met
f) carcinogenicity

Based on available data, the classification criteria are not met
g) reproductive toxicity

Based on available data, the classification criteria are not met
h) STOT-single exposure

Based on available data, the classification criteria are not met
i) STOT-repeated exposure

Based on available data, the classification criteria are not met
j) aspiration hazard

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 > 5000 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit = 9510 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 = 1609.3 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit = 2535 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 4.63 mg/l
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

Linalool - CAS: 78-70-6

- a) acute toxicity:

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- Test: LD50 - Route: Oral - Species: Rat 2.790 mg/kg
Test: LD50 - Route: Oral - Species: Mouse 2.200 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit 5.610 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
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

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

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

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

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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: 13828-37-0

a) Aquatic acute toxicity:

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

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

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12.6. Other adverse effects
None

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.

SECTION 14: Transport information

14.1. UN number
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. Transport in bulk according to Annex II of Marpol and the IBC Code
No

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) 2015/830
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)

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
Restriction 40
Restrictions related to the substances contained:
No restriction.

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Volatile Organic compounds - VOCs = 14.99 %
Volatile Organic compounds - VOCs = 149.90 g/Kg
Volatile Organic compounds - VOCs = 138.36 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.
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.
H226 Flammable liquid and vapour.
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.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
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

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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 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 4: First aid measures
- SECTION 5: Firefighting measures
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information

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

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

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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.