

Safety Data Sheet

AIRTECH CAR OCEAN REFILL ML 7



Safety Data Sheet dated 22/4/2021, version 9

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

1.1. Product identifier

Mixture identification:

Trade name: AIRTECH CAR OCEAN REFILL ML 7

Trade code: 1426

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

Recommended use:

Car air freshener

Uses advised against:

Strictly adhere to the recommended uses.

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

⚠ 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:

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 carefully and follow all instructions.

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P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

EUH208 Contains (R)-p-mentha-1,8-diene; d-limonene. May produce an allergic reaction.
EUH208 Contains Reaction mass of (3R,5R)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and (3R,5S)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and (E)-3,4,5,6,6-pentamethylhept-3-en-2-one
EUH208 Contains Cineole. May produce an allergic reaction.
EUH208 Contains Linalyl acetate. May produce an allergic reaction.
EUH208 Contains p-menthan-3-one. May produce an allergic reaction.
EUH208 Contains Beta Pinene. May produce an allergic reaction.
EUH208 Contains CARVONE LAEVO (l-carvone). May produce an allergic reaction.
EUH208 Contains Pin-2(3)-ene. May produce an allergic reaction.
EUH208 Contains Geranyl acetate. May produce an allergic reaction.
EUH208 Contains citral. May produce an allergic reaction.
EUH208 Contains 2-Methylundecanal. 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

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:

$\geq 40\%$ - $< 50\%$ Dipropylen glycol methyl ether

REACH No.: 01-2119450011-60, CAS: 34590-94-8, EC: 252-104-2

Substance with a Union workplace exposure limit.

$\geq 3\%$ - $< 5\%$ 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

$\geq 2\%$ - $< 3\%$ 2,6 -dimethyloct-7-en-2-ol

REACH No.: 01-2119457274-37, CAS: 18479-58-8, EC: 242-362-4

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.3/2 Eye Irrit. 2 H319

$\geq 1\%$ - $< 2\%$ (R)-p-mentha-1,8-diene; d-limonene

Index number: 601-029-00-7, CAS: 5989-27-5, EC: 227-813-5

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.10/1 Asp. Tox. 1 H304

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1B Skin Sens. 1B H317

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- ⚠ 4.1/A1 Aquatic Acute 1 H400
- ⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 1% - < 2% Reaction mass of (3R,5R)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and (3R,5S)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and (E)-3,4,5,6,6-pentamethylhept-3-en-2-one

REACH No.: 01-2119980043-42, EC: 939-627-8

- ⚠ 3.4.2/1B Skin Sens. 1B H317
- ⚠ 4.1/C2 Aquatic Chronic 2 H411

>= 0.5% - < 1% p-menthan-3-one

CAS: 10458-14-7, EC: 233-944-9

- ⚠ 3.2/2 Skin Irrit. 2 H315
- ⚠ 3.4.2/1B Skin Sens. 1B H317

>= 0.5% - < 1% Linalyl acetate

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

- ⚠ 3.2/2 Skin Irrit. 2 H315
- ⚠ 3.4.2/1B Skin Sens. 1B H317
- ⚠ 3.3/2 Eye Irrit. 2 H319

>= 0.5% - < 1% 1,4-cyclohexadiene,1-menthyl-4-(-1-menthylethyl)-

REACH No.: 01-2120780478-40, CAS: 99-85-4, EC: 202-794-6

- ⚠ 2.6/3 Flam. Liq. 3 H226
- ⚠ 3.7/2 Repr. 2 H361fd
- ⚠ 3.10/1 Asp. Tox. 1 H304
- ⚠ 4.1/C2 Aquatic Chronic 2 H411

>= 0.5% - < 1% DYPHENYL OXYDE

CAS: 101-84-8, EC: 202-981-2

- ⚠ 3.3/2 Eye Irrit. 2 H319
- ⚠ 4.1/A1 Aquatic Acute 1 H400
- 4.1/C3 Aquatic Chronic 3 H412

>= 0.5% - < 1% Cineole

REACH No.: 01-2119967772-24, CAS: 470-82-6, EC: 207-431-5

- ⚠ 2.6/3 Flam. Liq. 3 H226
- ⚠ 3.4.2/1B Skin Sens. 1B H317

>= 0.1% - < 0.25% Beta Pinene

REACH No.: 01-2119519230-54, CAS: 127-91-3, EC: 204-872-5

- ⚠ 3.10/1 Asp. Tox. 1 H304
- ⚠ 4.1/A1 Aquatic Acute 1 H400
- ⚠ 3.4.2/1B Skin Sens. 1B H317
- ⚠ 4.1/C1 Aquatic Chronic 1 H410
- ⚠ 2.6/3 Flam. Liq. 3 H226
- ⚠ 3.2/2 Skin Irrit. 2 H315

>= 0.1% - < 0.25% Geranyl acetate

REACH No.: 01-2119973480-35, CAS: 105-87-3, EC: 203-341-5

- 4.1/C3 Aquatic Chronic 3 H412
- ⚠ 3.2/2 Skin Irrit. 2 H315
- ⚠ 3.4.2/1B Skin Sens. 1B H317

>= 0.1% - < 0.25% Pin-2(3)-ene

REACH No.: 01-2119979519-16, CAS: 80-56-8, EC: 201-291-9



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- ⚠ 3.1/4/Oral Acute Tox. 4 H302
- ⚠ 3.10/1 Asp. Tox. 1 H304
- ⚠ 2.6/3 Flam. Liq. 3 H226
- ⚠ 4.1/A1 Aquatic Acute 1 H400
- ⚠ 3.2/2 Skin Irrit. 2 H315
- ⚠ 4.1/C1 Aquatic Chronic 1 H410
- ⚠ 3.4.2/1B Skin Sens. 1B H317

>= 0.1% - < 0.25% CARVONE LAEVO (l-carvone)
REACH No.: 01-2119962458-25, CAS: 6485-40-1, EC: 229-352-5
⚠ 3.4.2/1B Skin Sens. 1B H317

>= 0.1% - < 0.25% citral
REACH No.: 01-2119462829-23, Index number: 605-019-00-3, CAS: 5392-40-5, EC: 226-394-6
⚠ 3.2/2 Skin Irrit. 2 H315
⚠ 3.3/2 Eye Irrit. 2 H319
⚠ 3.4.2/1 Skin Sens. 1 H317

>= 0.1% - < 0.25% 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.

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.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do NOT induce vomiting.

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 dust.

Not Recommended Extinguishing Media:

Do not use direct water jets.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

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- 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.
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
Store in a dry place.
Store in hermetically sealed containers, preferably in a cool place, away from sources of heat and direct sunlight.
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
Dipropylen glycol methyl ether - 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
- DYPHENYL OXYDE - CAS: 101-84-8
EU - TWA(8h): 7 mg/m³, 1 ppm - STEL: 14 mg/m³, 2 ppm
ACGIH - TWA(8h): 1 ppm - STEL: 2 ppm - Notes: (V) - URT and eye irr, nausea
- Beta Pinene - CAS: 127-91-3
ACGIH - TWA(8h): 20 ppm - Notes: DSEN, A4 - Lung irr

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Pin-2(3)-ene - CAS: 80-56-8

ACGIH - TWA(8h): 20 ppm - Notes: DSEN, A4 - Lung irr

citral - CAS: 5392-40-5

ACGIH - TWA(8h): 5 ppm - Notes: (IFV), Skin, DSEN, A4 - Body weight eff, URT irr, eye dam

DNEL Exposure Limit Values

Dipropylen glycol methyl ether - CAS: 34590-94-8

Consumer: 36 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 308 mg/m³ - Consumer: 37.2 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 283 mg/kg - Consumer: 121 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Linalool - CAS: 78-70-6

Worker Professional: 2.5 mg/kg - Consumer: 1.25 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 2.8 mg/m³ - Consumer: 0.7 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

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

Worker Professional: 5 mg/kg - Consumer: 2.5 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Professional: 16.5 mg/m³ - Consumer: 4.1 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

2,6 -dimethyloct-7-en-2-ol - CAS: 18479-58-8

Worker Professional: 20.8 mg/kg - Consumer: 12.5 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 73.5 mg/m³ - Consumer: 21.7 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 12.5 mg/kg - Exposure: Human Oral

Reaction mass of (3R,5R)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and (3R,5S)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and (E)-3,4,5,6,6-pentamethylhept-3-en-2-one

Worker Professional: 1.7 mg/kg - Consumer: 1 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 6 mg/m³ - Consumer: 1.8 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 1 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

1,4-cyclohexadiene,1-menthyl-4-(-1-menthylethyl)- - CAS: 99-85-4

Worker Professional: 2.939 mg/m³ - Consumer: 0.725 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 0.833 mg/kg - Consumer: 0.417 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 0.417 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Cineole - CAS: 470-82-6

Worker Professional: 2 mg/kg - Consumer: 1 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 7.05 mg/m³ - Consumer: 1.74 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 600 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Beta Pinene - CAS: 127-91-3

Worker Professional: 0.8 mg/kg - Consumer: 0.3 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 5.69 mg/m³ - Consumer: 1 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 0.3 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

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2-Methylundecanal - CAS: 110-41-8

Worker Professional: 10.46 mg/kg - Consumer: 5.23 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 36.89 mg/m³ - Consumer: 9.1 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 5.23 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 100 mg/kg - Consumer: 50 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Professional: 352.63 mg/m³ - Consumer: 86.96 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

PNEC Exposure Limit Values

Dipropylen glycol methyl ether - CAS: 34590-94-8

Target: Fresh Water - Value: 19 mg/l

Target: Marine water - Value: 1.9 mg/l

Target: Marine water sediments - Value: 7.02 mg/kg

Target: Freshwater sediments - Value: 70.2 mg/kg

Target: 09 - Value: 4168 mg/l

Linalool - CAS: 78-70-6

Target: Fresh Water - Value: 0.2 mg/l

Target: Marine water - Value: 0.02 mg/l

Target: Freshwater sediments - Value: 2.22 mg/kg

Target: Marine water sediments - Value: 0.222 mg/kg

Target: 09 - Value: 10 mg/l

2,6-dimethyloct-7-en-2-ol - CAS: 18479-58-8

Target: Fresh Water - Value: 0.0278 mg/l

Target: Marine water - Value: 0.00278 mg/l

Target: Freshwater sediments - Value: 0.594 mg/kg

Target: Marine water sediments - Value: 0.059 mg/kg

Target: 09 - Value: 10 mg/l

Reaction mass of (3R,5R)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and (3R,5S)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and (E)-3,4,5,6,6-pentamethylhept-3-en-2-one

Target: Fresh Water - Value: 0.0048 mg/l

Target: Marine water - Value: 0.00048 mg/l

Target: Freshwater sediments - Value: 0.621 mg/kg

Target: Marine water sediments - Value: 0.062 mg/kg

Target: 09 - Value: 22 mg/l

1,4-cyclohexadiene, 1-menthyl-4-(-1-menthylethyl)- - CAS: 99-85-4

Target: Fresh Water - Value: 0.003 mg/l

Target: Marine water - Value: 0.0003 mg/l

Target: Freshwater sediments - Value: 0.49 mg/kg

Target: Marine water sediments - Value: 0.049 mg/kg

Target: 09 - Value: 10 mg/l

Cineole - CAS: 470-82-6

Target: Fresh Water - Value: 0.057 mg/l

Target: Marine water - Value: 0.0057 mg/l

Target: Freshwater sediments - Value: 1.425 mg/kg

Target: Marine water sediments - Value: 0.142 mg/kg

Target: 09 - Value: 10 mg/l

Beta Pinene - CAS: 127-91-3

Target: Fresh Water - Value: 0.001004 mg/l

Target: Marine water - Value: 0.0001 mg/l

Target: Freshwater sediments - Value: 0.337 mg/kg

Target: Marine water sediments - Value: 0.034 mg/kg

Target: 09 - Value: 3.26 mg/l

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2-Methylundecanal - CAS: 110-41-8
 Target: Fresh Water - Value: 0.00066 mg/l
 Target: Marine water - Value: 0.000066 mg/l
 Target: Freshwater sediments - Value: 0.265 mg/kg
 Target: Marine water sediments - Value: 0.0265 mg/kg
 Target: 09 - Value: 10 mg/l

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.
 Compliant with EN 166

Protection for skin:

protective clothing

Protection for hands:

Compliant with EN 374.

Respiratory protection:

In case of insufficient ventilation, use adequate respiratory protection equipment.

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:	transparent	--	--
Odour:	Characteristic	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	134°C	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	75°C	--	--
Auto-ignition temperature:	235°C	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	N.A.	--	--

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Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	0,978	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information
No other relevant information

SECTION 10: Stability and reactivity

- 10.1. Reactivity
Stable under normal conditions
- 10.2. Chemical stability
Stable at normal ambient temperatures and when used as recommended.
- 10.3. Possibility of hazardous reactions
None
- 10.4. Conditions to avoid
Flames and other sources of ignition.
- 10.5. Incompatible materials

Strong acids.
Strong alkali.
- 10.6. Hazardous decomposition products
Thermal decomposition may result in carbon monoxide, carbon dioxide and other unidentified organic compounds.

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
Test: oecd 10 - Route: Oral > 2000 mg/kg
Test: oecd 10 - Route: Skin > 2000 mg/kg
Test: oecd 10 - Route: Inhalation > 20 mg/l
 - b) skin corrosion/irritation
Not classified
Based on available data, the classification criteria are not met
 - c) serious eye damage/irritation
Not classified
Based on available data, the classification criteria are not met
 - d) respiratory or skin sensitisation
The product is classified: Skin Sens. 1B H317

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- 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:

Dipropylen glycol methyl ether - CAS: 34590-94-8

a) acute toxicity:

Test: LD50 - Route: Oral > 2000 mg/kg

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

Test: LC50 - Route: Inhalation > 20 mg/l - Duration: 4h

Linalool - CAS: 78-70-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 3000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 5610 mg/kg

Test: LC50 - Route: Inhalation > 20 mg/l - Duration: 4h

2,6 -dimethyloct-7-en-2-ol - CAS: 18479-58-8

a) acute toxicity:

Test: LD50 - Route: Oral 3600 mg/kg

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

Test: LC50 - Route: Inhalation > 20 mg/l - Duration: 4h

(R)-p-mentha-1,8-diene; d-limonene - CAS: 5989-27-5

a) acute toxicity:

Test: LD50 - Route: Oral > 2000 mg/kg

Test: LD50 - Route: Oral > 2000 mg/kg

Reaction mass of (3R,5R)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and

(3R,5S)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and

(E)-3,4,5,6,6-pentamethylhept-3-en-2-one

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 5500 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 5500 mg/kg

Test: LC50 - Route: Inhalation > 20 mg/l - Duration: 4h

p-menthan-3-one - CAS: 10458-14-7

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 2500 mg/kg

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

Test: LC50 - Route: Inhalation > 20 mg/l

Linalyl acetate - CAS: 115-95-7

a) acute toxicity:

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

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

1,4-cyclohexadiene,1-menthyl-4-(-1-menthylethyl)- - CAS: 99-85-4



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- a) acute toxicity:
Test: LD50 - Route: Skin > 2000 mg/kg
Test: LD50 - Route: Oral > 2000 mg/kg
DYPHENYL OXYDE - CAS: 101-84-8
- a) acute toxicity:
Test: LD50 - Route: Oral > 2000 mg/kg
Test: LD50 - Route: Skin > 2000 mg/kg
Cineole - CAS: 470-82-6
- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 2480 mg/kg
Test: LD50 - Route: Skin > 2000 mg/kg
Test: LC50 - Route: Inhalation > 20 mg/l
Beta Pinene - CAS: 127-91-3
- a) acute toxicity:
Test: LD50 - Route: Oral > 2000 mg/kg
Test: LD50 - Route: Skin > 2000 mg/kg
Test: LC50 - Route: Inhalation > 20 mg/l - Duration: 4h
Geranyl acetate - CAS: 105-87-3
- a) acute toxicity:
Test: LD50 - Route: Oral > 2000 mg/kg
Test: LD50 - Route: Skin > 2000 mg/kg
Test: LC50 - Route: Inhalation > 20 mg/l
Pin-2(3)-ene - CAS: 80-56-8
- a) acute toxicity:
Test: LD50 - Route: Oral > 2000 mg/kg
Test: LD50 - Route: Skin > 2000 mg/kg
CARVONE LAEVO (l-carvone) - CAS: 6485-40-1
- a) acute toxicity:
Test: LD50 - Route: Oral > 2000
Test: LD50 - Route: Skin > 2000
citral - CAS: 5392-40-5
- a) acute toxicity:
Test: LD50 - Route: Oral > 2000 mg/kg
Test: LD50 - Route: Skin > 2000 mg/kg
2-Methylundecanal - CAS: 110-41-8
- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 5100 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit 8300 mg/kg
Test: LC50 - Route: Inhalation > 20 mg/l

11.2. Information on other hazards

Endocrine disrupting properties:

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

SECTION 12: Ecological information

12.1. Toxicity

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

Dipropylen glycol methyl ether - CAS: 34590-94-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 10000 mg/l - Duration h: 96

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

Linalool - CAS: 78-70-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 27.8 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 59 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae 88.3 mg/l - Duration h: 96

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(R)-p-mentha-1,8-diene; d-limonene - CAS: 5989-27-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 0.1-1 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 0.1-1 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae 0.1-1 mg/l - Duration h: 72

Reaction mass of (3R,5R)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and (3R,5S)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and (E)-3,4,5,6,6-pentamethylhept-3-en-2-one

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

1,4-cyclohexadiene,1-menthyl-4-(-1-menthylethyl)- - CAS: 99-85-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 1-10 mg/l - Duration h: 72

Endpoint: EC50 - Species: Daphnia 1-10 mg/l - Duration h: 48

Endpoint: EC50 - Species: batteri 1-10 mg/l - Duration h: 96

DYPHENYL OXYDE - CAS: 101-84-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 0.1-1 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 0.1-1 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae 0.1-1 mg/l - Duration h: 72

Beta Pinene - CAS: 127-91-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 0.1-1 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 0.1-1 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae 0.1-1 mg/l - Duration h: 72

Geranyl acetate - CAS: 105-87-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 10-100 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 10-100 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae 10-100 mg/l - Duration h: 72

Pin-2(3)-ene - CAS: 80-56-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 0.1-1 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 0.1-1 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae 0.1-1 mg/l - Duration h: 72

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 = 0.11 mg/l - Duration h: 72

12.2. Persistence and degradability

None

Dipropylen glycol methyl ether - CAS: 34590-94-8

Biodegradability: Readily biodegradable - Duration: 28gg - %: 73

Linalool - CAS: 78-70-6

Duration: 28gg - %: 90

2,6 -dimethyloct-7-en-2-ol - CAS: 18479-58-8

Duration: 28gg - %: 72

Reaction mass of (3R,5R)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and (3R,5S)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and (E)-3,4,5,6,6-pentamethylhept-3-en-2-one

Duration: 28gg - %: 0

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- 2-Methylundecanal - CAS: 110-41-8
Biodegradability: Readily biodegradable - Duration: 28gg - %: 68
- 12.3. Bioaccumulative potential
Dipropylen glycol methyl ether - CAS: 34590-94-8
Bioaccumulation: Not bioaccumulative - Test: log Pow -0.06
Test: BCF - Bioconcentration factor 1
Linalool - CAS: 78-70-6
Test: BCF - Bioconcentration factor 39
Test: log Pow 2.97
Cineole - CAS: 470-82-6
Bioaccumulation: Bioaccumulative - Test: log Pow 2.74
Beta Pinene - CAS: 127-91-3
Bioaccumulation: Bioaccumulative - Test: log Pow 4.35
Test: BCF - Bioconcentration factor 440
2-Methylundecanal - CAS: 110-41-8
Bioaccumulation: Bioaccumulative - Test: log Pow 5
- 12.4. Mobility in soil
Reaction mass of (3R,5R)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and
(3R,5S)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and
(E)-3,4,5,6,6-pentamethylhept-3-en-2-one

Test: Koc 1259
2-Methylundecanal - CAS: 110-41-8
Test: Koc 4000
- 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

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 or ID number

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.

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

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.

Volatile Organic compounds - VOCs = 50.55 %

Volatile Organic compounds - VOCs = 505.50 g/Kg

Volatile Organic compounds - VOCs = 494.38 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.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.

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H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
H412 Harmful to aquatic life with long lasting effects.
H302 Harmful if swallowed.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
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. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
Repr. 2	3.7/2	Reproductive toxicity, 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 9: Physical and chemical properties

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 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

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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.