

Safety Data Sheet

AIRTECH CAR OCEAN ML 7



Safety Data Sheet dated 4/7/2019, version 6

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

1.1. Product identifier

Mixture identification:

Trade name: AIRTECH CAR OCEAN ML 7

Trade code: 1421

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

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 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 label before use.

P273 Avoid release to the environment.

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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:

None

Contains

Linalool

d-limonene: May produce an allergic reaction.

Cineole: May produce an allergic reaction.

acetyl diisoamylene: May produce an allergic reaction.

Beta Pinene: May produce an allergic reaction.

CARVONE LAEVO (l-carvone): May produce an allergic reaction.

Geranyl acetate: May produce an allergic reaction.

citral: May produce an allergic reaction.

2-Methylundecanal: 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:

>= 50% - < 60% Dipropylen glycol methyl ether

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

Substance with a Union workplace exposure limit.

>= 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

>= 2% - < 3% P-MENTH-1-EN-8-YL ACETATE

CAS: 8007-35-0, EC: 232-357-5

⚠ 4.1/C2 Aquatic Chronic 2 H411

>= 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

>= 1% - < 2% 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

⚠ 4.1/A1 Aquatic Acute 1 H400

⚠ 4.1/C1 Aquatic Chronic 1 H410

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- >= 0.5% - < 1% Beta Pinene
REACH No.: 01-2119519230-54, CAS: 127-91-3, EC: 204-872-5
 - ⚠ 3.10/1 Asp. Tox. 1 H304
 - ⚠ 3.4.2/1B Skin Sens. 1B H317
 - ⚠ 2.6/3 Flam. Liq. 3 H226
 - ⚠ 3.2/2 Skin Irrit. 2 H315

- >= 0.5% - < 1% DYPHENYL OXYDE
CAS: 101-84-8, EC: 202-981-2
 - ⚠ 3.3/2 Eye Irrit. 2 H319
 - ⚠ 4.1/C2 Aquatic Chronic 2 H411

- >= 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

- >= 0.5% - < 1% acetyl diisoamylene
CAS: 81786-73-4, EC: 279-822-9
 - ⚠ 3.4.2/1B Skin Sens. 1B H317
 - ⚠ 4.1/C2 Aquatic Chronic 2 H411 M=10.

- >= 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% 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
 - ⚠ 3.4.2/1 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.

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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.

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.

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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

Beta Pinene - CAS: 127-91-3
ACGIH - TWA(8h): 20 ppm - Notes: DSEN, A4 - Lung irr

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

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: 1.67 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Professional: 310 mg/m³ - Consumer: 37.2 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 65 mg/kg - Consumer: 15 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

DYPHENYL OXYDE - CAS: 101-84-8
Worker Professional: 58.2 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 245.8 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 9.68 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local 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

CARVONE LAEVO (l-carvone) - CAS: 6485-40-1
Worker Professional: 0.333 mg/kg - Consumer: 0.166 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 1.175 mg/m³ - Consumer: 0.289 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 0.166 mg/kg - Exposure: Human Oral

citral - CAS: 5392-40-5
Worker Professional: 1.7 mg/kg - Consumer: 1 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 9 mg/m³ - Consumer: 2.7 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 0.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

2-Methylundecanal - CAS: 110-41-8
Worker Professional: 7 mg/kg - Consumer: 1 mg/kg - Exposure: Human Dermal -

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Frequency: Long Term, systemic effects

Worker Professional: 25.2 mg/m³ - Consumer: 1.74 mg/m³ - Exposure: Human

Inhalation - Frequency: Long Term, systemic effects

Consumer: 3.5 mg/kg - Exposure: Human Oral - Frequency: Long 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

DYPHENYL OXYDE - CAS: 101-84-8

Target: Fresh Water - Value: 0.0017 mg/l

Target: Marine water - Value: 0.00017 mg/l

Target: Freshwater sediments - Value: 0.345 mg/kg

Target: Marine water sediments - Value: 0.0345 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: 0.06732 mg/kg

Target: Marine water sediments - Value: 0.00373 mg/kg

Target: 09 - Value: 10 mg/l

CARVONE LAEVO (l-carvone) - CAS: 6485-40-1

Target: Fresh Water - Value: 0.0061 mg/l

Target: Marine water - Value: 0.00061 mg/l

Target: Freshwater sediments - Value: 0.192 mg/kg

Target: Marine water sediments - Value: 0.0192 mg/kg

Target: 09 - Value: 10 mg/l

citral - CAS: 5392-40-5

Target: Fresh Water - Value: 0.00678 mg/l

Target: Marine water - Value: 0.000678 mg/l

Target: Freshwater sediments - Value: 0.125 mg/kg

Target: Marine water sediments - Value: 0.0125 mg/kg

Target: 09 - Value: 1.6 mg/l

2-Methylundecanal - CAS: 110-41-8

Target: Fresh Water - Value: 0.00018 mg/l

Target: Marine water - Value: 0.000018 mg/l

Target: Freshwater sediments - Value: 0.072 mg/kg

Target: Marine water sediments - Value: 0.00722 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

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Liquid	--	--
Odour:	Characteristic	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	141°C	--	--
Flash point:	76°C	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	N.A.	--	--
Relative density:	986 kg/m ³	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	225°C	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	N.A.	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

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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 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 oxidising agents.
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 toxicological effects

Toxicological information of the product:

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a) acute toxicity

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

Based on available data, the classification criteria are not met

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

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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:

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 > 2000 mg/kg

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

P-MENTH-1-EN-8-YL ACETATE - CAS: 8007-35-0

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

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

a) acute toxicity:

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

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

d-limonene - CAS: 5989-27-5

a) acute toxicity:

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

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

Beta Pinene - CAS: 127-91-3

a) acute toxicity:

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

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

DYPHENYL OXYDE - CAS: 101-84-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 3450 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 5100 mg/kg

Test: LC50 - Route: Inhalation > 5 mg/l

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

acetyl diisoamylene - CAS: 81786-73-4

a) acute toxicity:

Test: LD50 - Route: Oral > 2000

Test: LD50 - Route: Skin > 2000

Test: LC50 - Route: Inhalation > 20

Geranyl acetate - CAS: 105-87-3

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 - Species: Rat 5400

Test: LD50 - Route: Skin 3800

Test: LC50 - Route: Inhalation > 20

citral - CAS: 5392-40-5

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- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 4950 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit 2250 mg/kg
Test: LC50 - Route: Inhalation > 20 mg/l
- 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

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 - Notes: OECD 203
Endpoint: EC50 - Species: Daphnia 59 mg/l - Duration h: 48 - Notes: OECD TG 202
Endpoint: EC50 - Species: Algae 88.3 mg/l - Duration h: 96

P-MENTH-1-EN-8-YL ACETATE - CAS: 8007-35-0

- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 1-10 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia > 1-10 mg/l
Endpoint: EC50 - Species: Algae = 1-10 mg/l

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
Endpoint: EC50 - Species: Algae 0.1-1 mg/l

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
Endpoint: EC50 - Species: Algae 0.1-1 mg/l

DYPHENYL OXYDE - CAS: 101-84-8

- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 4.2 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia 1.7 mg/l - Duration h: 48

acetyl diisoamylene - CAS: 81786-73-4

- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 1-10 mg/l
Endpoint: EC50 - Species: Daphnia 1-10 mg/l
Endpoint: EC50 - Species: Algae 1-10 mg/l

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
Endpoint: EC50 - Species: Algae 10-100 mg/l

CARVONE LAEVO (l-carvone) - CAS: 6485-40-1

- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 6.1 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia 38 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae 19 mg/l - Duration h: 72

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citral - CAS: 5392-40-5

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae 16 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish 6.1 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 11 mg/l - Duration h: 24

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

DYPHENYL OXYDE - CAS: 101-84-8

Biodegradability: Non-readily biodegradable - Duration: 14 days - %: 6

CARVONE LAEVO (l-carvone) - CAS: 6485-40-1

Biodegradability: Readily biodegradable - Duration: 28gg - %: 90

citral - CAS: 5392-40-5

Biodegradability: 4 - Duration: 28gg - %: 92

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

P-MENTH-1-EN-8-YL ACETATE - CAS: 8007-35-0

Bioaccumulation: Bioaccumulative - Test: log Pow 4.4

Beta Pinene - CAS: 127-91-3

Bioaccumulation: Bioaccumulative - Test: log Pow 4.35

Test: BCF - Bioconcentration factor 440

DYPHENYL OXYDE - CAS: 101-84-8

Bioaccumulation: Bioaccumulative - Test: BCF - Bioconcentration factor 594

Test: log Pow 4.21

Cineole - CAS: 470-82-6

Bioaccumulation: Bioaccumulative - Test: log Pow 2.74

citral - CAS: 5392-40-5

Bioaccumulation: Bioaccumulative - Test: log Pow 3.45

Test: BCF - Bioconcentration factor 10

2-Methylundecanal - CAS: 110-41-8

Bioaccumulation: Bioaccumulative - Test: log Pow 5

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

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

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14.1. UN 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.

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.

Volatile Organic compounds - VOCs = 53.21 %

Volatile Organic compounds - VOCs = 532.10 g/Kg

Volatile Organic compounds - VOCs = 524.65 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:

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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.
- H411 Toxic to aquatic life with long lasting effects.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
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
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 3: Composition/information on ingredients
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 15: Regulatory 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 Sens. 1B, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method

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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.