

# Safety Data Sheet

## AIRTECH CAR LIME ML 7



Safety Data Sheet dated 22/4/2021, version 7

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

#### 1.1. Product identifier

Mixture identification:

Trade name: AIRTECH CAR LIME ML 7

Trade code: 1420

#### 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 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 2, Toxic 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.

H411 Toxic to aquatic life with long lasting effects.

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#### 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.
- 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:

- EUH208 Contains (R)-p-mentha-1,8-diene; d-limonene. May produce an allergic reaction.
- EUH208 Contains 3,7-dimethyl-3-octanol. May produce an allergic reaction.
- EUH208 Contains p-Mentha-1,4(8)-diene TERPINOLENE. May produce an allergic reaction.
- EUH208 Contains 2,6-OCTADIENAL,3,7-DIMETHYL. May produce an allergic reaction.
- EUH208 Contains (2E)-2-(Phenylmethylidene)octanal. May produce an allergic reaction.
- EUH208 Contains CITRONELLOL. May produce an allergic reaction.
- EUH208 Contains GERANIOL. May produce an allergic reaction.
- EUH208 Contains Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde. May produce an allergic reaction.

#### Contains

citral

#### 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:

$\geq 50\%$  -  $< 60\%$  Dipropyl glycol methyl ether

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

Substance with a Union workplace exposure limit.

$\geq 7\%$  -  $< 10\%$  Methoxymethylbutanol

REACH No.: 01-2119976333-33, CAS: 56539-66-3, EC: 260-252-4

⚠ 3.3/2 Eye Irrit. 2 H319

$\geq 7\%$  -  $< 10\%$  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

⚠ 3.4.2/1B Skin Sens. 1B H317

$\geq 7\%$  -  $< 10\%$  (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

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- ✚ 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

>= 5% - < 7% 3,7-dimethyl-3-octanol  
REACH No.: 01-2119454788-21, CAS: 78-69-3, EC: 201-133-9

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

>= 1% - < 2% octanal  
REACH No.: 01-2119638274-38, CAS: 124-13-0, EC: 204-683-8

- ✚ 2.6/3 Flam. Liq. 3 H226
- ✚ 3.2/2 Skin Irrit. 2 H315
- ✚ 3.3/2 Eye Irrit. 2 H319
- ✚ 4.1/C3 Aquatic Chronic 3 H412

>= 1% - < 2% 3,7-DIMETHYLNONA-2,6-DIENENITRILE  
REACH No.: 01-2119967769-11, CAS: 61792-11-8, EC: 263-214-5

- ✚ 4.1/C2 Aquatic Chronic 2 H411

>= 1% - < 2% ALD. C 10 PURA - 1-Decanal  
REACH No.: 01-2119967771-26, CAS: 112-31-2, EC: 203-957-4

- ✚ 4.1/C3 Aquatic Chronic 3 H412
- ✚ 3.3/2 Eye Irrit. 2 H319

>= 0.5% - < 1% 2,6-OCTADIENAL,3,7-DIMETHYL  
CAS: 147060-73-9, EC: 291-768-8

- ✚ 2.6/3 Flam. Liq. 3 H226
- ✚ 3.4.2/1B Skin Sens. 1B H317
- ✚ 4.1/C3 Aquatic Chronic 3 H412

>= 0.5% - < 1% p-Mentha-1,4(8)-diene TERPINOLENE  
REACH No.: 01-2119982325-32, CAS: 586-62-9, EC: 209-578-0

- ✚ 3.10/1 Asp. Tox. 1 H304
- ✚ 3.4.2/1B Skin Sens. 1B H317
- ✚ 4.1/A1 Aquatic Acute 1 H400
- ✚ 4.1/C1 Aquatic Chronic 1 H410

>= 0.5% - < 1% (2E)-2-(Phenylmethylidene)octanal  
REACH No.: 01.2119533092-50, CAS: 165184-98-5, EC: 639-566-4

- ✚ 4.1/A1 Aquatic Acute 1 H400
- ✚ 4.1/C1 Aquatic Chronic 1 H410
- ✚ 3.4.2/1B Skin Sens. 1B H317

>= 0.5% - < 1% MYRCENE  
REACH No.: 01-2119514321-56, CAS: 123-35-3, EC: 204-622-5

- ✚ 4.1/A1 Aquatic Acute 1 H400
- ✚ 4.1/C2 Aquatic Chronic 2 H411
- ✚ 3.10/1 Asp. Tox. 1 H304
- ✚ 3.3/2 Eye Irrit. 2 H319
- ✚ 2.6/3 Flam. Liq. 3 H226
- ✚ 3.2/2 Skin Irrit. 2 H315

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>= 0.25% - < 0.5% CITRONELLOL

REACH No.: 01-2119453995-23, CAS: 106-22-9, EC: 203-375-0

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.4.2/1B Skin Sens. 1B H317

>= 0.25% - < 0.5% GERANIOL

REACH No.: 01-2119552430-49, CAS: 106-24-1, EC: 203-377-1

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1 Skin Sens. 1 H317

⚠ 3.3/1 Eye Dam. 1 H318

>= 0.1% - < 0.25% Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde

REACH No.: 01-2119982384-28, EC: 943-728-2

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.4.2/1B Skin Sens. 1B H317

⚠ 4.1/C2 Aquatic Chronic 2 H411

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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 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

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#### 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

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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
  - 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
  - Store in well-closed containers, preferably in a cool place, away from sources of heat and direct sunlight.
  - Store in a dry place.
  - 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
  - Dipropylen glycol methyl ether - 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
  - 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/m<sup>3</sup> - Consumer: 37.2 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

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

3,7-dimethyl-3-octanol - CAS: 78-69-3  
Worker Professional: 3.16 mg/kg - Consumer: 1.58 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Professional: 11.14 mg/m3 - Consumer: 2.75 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 1.58 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

octanal - CAS: 124-13-0  
Worker Professional: 0.37 mg/kg - Consumer: 0.19 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Professional: 1.13 mg/m3 - Consumer: 0.32 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 0.19 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

3,7-DIMETHYLNONA-2,6-DIENENITRILE - CAS: 61792-11-8  
Consumer: 0.75 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects  
Worker Professional: 1.5 mg/kg - Consumer: 0.75 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Professional: 5.29 mg/m3 - Consumer: 1.3 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Worker Professional: 3 mg/kg - Consumer: 1.5 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects  
Worker Professional: 10.58 mg/m3 - Consumer: 2.61 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

ALD. C 10 PURA - 1-Decanal - CAS: 112-31-2  
Worker Professional: 7.05 mg/kg - Consumer: 3.52 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Professional: 24.86 mg/m3 - Consumer: 6.13 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 3.52 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects  
Worker Professional: 49.71 mg/m3 - Consumer: 12.26 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects  
Worker Professional: 14.1 mg/kg - Consumer: 7.05 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

CITRONELLOL - CAS: 106-22-9  
Worker Professional: 327.4 mg/kg - Consumer: 196.4 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Professional: 161.6 mg/m3 - Consumer: 47.8 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 13.8 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects  
Worker Professional: 10 mg/m3 - Consumer: 10 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects  
Worker Professional: 10 mg/m3 - Consumer: 10 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects

PNEC Exposure Limit Values

Dipropyl 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: 70.2 mg/kg  
Target: Freshwater sediments - Value: 7.02 mg/kg  
Target: 09 - Value: 4168 mg/l

3,7-dimethyl-3-octanol - CAS: 78-69-3  
Target: Fresh Water - Value: 0.009 mg/l  
Target: Marine water - Value: 0.001 mg/l  
Target: Freshwater sediments - Value: 0.082 mg/kg  
Target: Marine water sediments - Value: 0.008 mg/kg

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Target: 09 - Value: 450 mg/l  
octanal - CAS: 124-13-0  
Target: Fresh Water - Value: 0.002 mg/l  
Target: Marine water - Value: 0 mg/l  
Target: Freshwater sediments - Value: 0.071 mg/kg  
Target: Marine water sediments - Value: 0.007 mg/kg  
Target: 09 - Value: 3.16 mg/l  
3,7-DIMETHYLNONA-2,6-DIENENITRILE - CAS: 61792-11-8  
Target: Fresh Water - Value: 0.002 mg/l  
Target: Marine water - Value: 0 mg/l  
Target: Freshwater sediments - Value: 0.248 mg/kg  
Target: Marine water sediments - Value: 0.025 mg/kg  
Target: 09 - Value: 0.9 mg/l  
ALD. C 10 PURA - 1-Decanal - CAS: 112-31-2  
Target: Fresh Water - Value: 0.00117 mg/l  
Target: Marine water - Value: 0.0000117 mg/l  
Target: Freshwater sediments - Value: 0.097 mg/kg  
Target: Marine water sediments - Value: 0.01 mg/kg  
Target: 09 - Value: 3.16 mg/l  
CITRONELLOL - CAS: 106-22-9  
Target: Fresh Water - Value: 0.002 mg/l  
Target: Marine water - Value: 0 mg/l  
Target: Freshwater sediments - Value: 0.026 mg/kg  
Target: Marine water sediments - Value: 0.003 mg/kg  
Target: 09 - Value: 580 mg/l

#### 8.2. Exposure controls

##### Eye protection:

Anti-splash goggles  
Compliant with EN 166

##### Protection for skin:

protective clothing

##### Protection for hands:

Nitrile or Viton gloves.  
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:	yellow	--	--
Odour:	Characteristic	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial	169°C	--	--



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boiling point and boiling range:			
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	77°C	--	--
Auto-ignition temperature:	225°C	--	--
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:	1356 Pa	--	--
Density and/or relative density:	0,955	--	--
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  
Excessive heat.  
Flames and other sources of ignition.
- 10.5. Incompatible materials  
Strong acids.  
Strong alkali.
- 10.6. Hazardous decomposition products



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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 - Duration: 4h

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

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

Methoxymethylbutanol - CAS: 56539-66-3

a) acute toxicity:

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

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

citral - CAS: 5392-40-5

a) acute toxicity:

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

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

(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

3,7-dimethyl-3-octanol - CAS: 78-69-3

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- 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  
octanal - CAS: 124-13-0
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat 4617 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit 5207 mg/kg  
Test: LC50 - Route: Inhalation > 20 mg/l - Duration: 4h  
3,7-DIMETHYLNONA-2,6-DIENENITRILE - CAS: 61792-11-8
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat 2600 mg/kg  
Test: LD50 - Route: Skin > 2000 mg/kg  
Test: LC50 - Route: Inhalation > 20 mg/l - Duration: 4h  
ALD. C 10 PURA - 1-Decanal - CAS: 112-31-2
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat 41750 mg/kg  
Test: LD50 - Route: Skin > 2000 mg/kg  
Test: LC50 - Route: Inhalation > 20 mg/l - Duration: 4h  
2,6-OCTADIENAL,3,7-DIMETHYL - CAS: 147060-73-9
- a) acute toxicity:  
Test: LD50 - Route: Oral > 2000 mg/kg  
Test: LD50 - Route: Skin > 2000 mg/kg  
p-Mentha-1,4(8)-diene TERPINOLENE - CAS: 586-62-9
- a) acute toxicity:  
Test: LD50 - Route: Skin > 2000 mg/kg  
Test: LD50 - Route: Oral > 2000 mg/kg  
(2E)-2-(Phenylmethylidene)octanal - CAS: 165184-98-5
- a) acute toxicity:  
Test: LD50 - Route: Oral > 2000 mg/kg  
Test: LD50 - Route: Skin > 2000 mg/kg  
MYRCENE - CAS: 123-35-3
- a) acute toxicity:  
Test: LD50 - Route: Oral > 2000 mg/kg  
Test: LD50 - Route: Skin > 2000 mg/kg  
CITRONELLOL - CAS: 106-22-9
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat 4200 mg/kg  
Test: LD50 - Route: Skin 2650 mg/kg  
Test: LC50 - Route: Inhalation > 20 mg/kg  
GERANIOL - CAS: 106-24-1
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat 4200 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit 5100 mg/kg  
Test: LC50 - Route: Inhalation > 20 mg/l  
Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and  
2,4-dimethylcyclohex-3-ene-1-carbaldehyde
- a) acute toxicity:  
Test: LD50 - Route: Oral > 2000 mg/kg  
Test: LD50 - Route: Skin > 2000 mg/kg

#### 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.

Dipropylene 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

(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

3,7-dimethyl-3-octanol - CAS: 78-69-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 8.9 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 14.2 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae 21.6 mg/l - Duration h: 72

octanal - CAS: 124-13-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 13.5 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 1.54 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae 4.5 mg/l - Duration h: 72

3,7-DIMETHYLNONA-2,6-DIENENITRILE - CAS: 61792-11-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 2.4 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 2.7 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae 3.6 mg/l - Duration h: 72

ALD. C 10 PURA - 1-Decanal - CAS: 112-31-2

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

2,6-OCTADIENAL,3,7-DIMETHYL - CAS: 147060-73-9

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

p-Mentha-1,4(8)-diene TERPINOLENE - CAS: 586-62-9

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

(2E)-2-(Phenylmethylidene)octanal - CAS: 165184-98-5

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

MYRCENE - CAS: 123-35-3

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

Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and

2,4-dimethylcyclohex-3-ene-1-carbaldehyde

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 1-10 mg/l - Duration h: 96

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Endpoint: EC50 - Species: Daphnia 1-10 mg/l

Endpoint: EC50 - Species: Algae 1-10 mg/l

#### 12.2. Persistence and degradability

None

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

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

3,7-dimethyl-3-octanol - CAS: 78-69-3

Biodegradability: Non-readily biodegradable - Duration: 28gg - %: 61

octanal - CAS: 124-13-0

Biodegradability: Non-readily biodegradable - Duration: 28gg - %: 46

3,7-DIMETHYLNONA-2,6-DIENENITRILE - CAS: 61792-11-8

Duration: 28gg - %: 32

GERANIOL - CAS: 106-24-1

Biodegradability: 4 - Duration: 21GG - %: 70

#### 12.3. Bioaccumulative potential

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

Bioaccumulation: Not bioaccumulative - Test: log Pow -0.06

Test: BCF - Bioconcentration factor 1

3,7-dimethyl-3-octanol - CAS: 78-69-3

Bioaccumulation: Bioaccumulative - Test: BCF - Bioconcentration factor 99

Test: log Pow 3.6

octanal - CAS: 124-13-0

Test: BCF - Bioconcentration factor 100

Test: log Pow 2.78

3,7-DIMETHYLNONA-2,6-DIENENITRILE - CAS: 61792-11-8

Test: BCF - Bioconcentration factor 60

Test: Kow - Partition coefficient 3.1

ALD. C 10 PURA - 1-Decanal - CAS: 112-31-2

Test: BCF - Bioconcentration factor 420

Test: log Pow 3.76

GERANIOL - CAS: 106-24-1

Bioaccumulation: Bioaccumulative - Test: BCF - Bioconcentration factor 110

Test: log Pow 3.56

#### 12.4. Mobility in soil

3,7-dimethyl-3-octanol - CAS: 78-69-3

Mobility in soil: Mobile - Test: Log Koc 56

octanal - CAS: 124-13-0

Test: Koc 430

3,7-DIMETHYLNONA-2,6-DIENENITRILE - CAS: 61792-11-8

Test: Koc 1000

#### 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

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- 14.1. UN number or ID number  
ADR-UN Number: 3082  
IATA-UN Number: 3082  
IMDG-UN Number: 3082
- 14.2. UN proper shipping name  
ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.((R)-p-mentha-1,8-diene; d-limonene, 3,7-DIMETHYLNONA-2,6-DIENENITRILE)  
IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.((R)-p-mentha-1,8-diene; d-limonene, 3,7-DIMETHYLNONA-2,6-DIENENITRILE)  
IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.((R)-p-mentha-1,8-diene; d-limonene, 3,7-DIMETHYLNONA-2,6-DIENENITRILE)
- 14.3. Transport hazard class(es)  
ADR-Class: 9  
ADR - Hazard identification number: 90  
IATA-Class: 9  
IATA-Label: 9  
IMDG-Class: 9  
Sea (IMO): Class 9
- 14.4. Packing group  
ADR-Packing Group: III  
IATA-Packing group: III  
IMDG-Packing group: III
- 14.5. Environmental hazards  
ADR-Environmental Pollutant: Yes  
IMDG-Marine pollutant: Marine Pollutant  
IMDG-EmS: F-A, S-F
- 14.6. Special precautions for user  
ADR-Subsidiary hazards: -  
ADR-S.P.: 274 335 375 601  
ADR-Transport category (Tunnel restriction code): 3 (E)  
IATA-Passenger Aircraft: 964  
IATA-Subsidiary hazards: -  
IATA-Cargo Aircraft: 964  
IATA-S.P.: A97 A158 A197  
IATA-ERG: 9L  
IMDG-Subsidiary hazards: -  
IMDG-Stowage and handling: Category A  
IMDG-Segregation: -
- 14.7. Maritime transport in bulk according to IMO instruments  
No  
Limited Quantity: 5 L  
Exempted Quantity: E1

## 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)

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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 = 59.02 %

Volatile Organic compounds - VOCs = 590.20 g/Kg

Volatile Organic compounds - VOCs = 563.64 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

Product belongs to category: E2

#### 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

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## SECTION 16: Other information

Text of phrases referred to under heading 3:

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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.

H411 Toxic to aquatic life with long lasting effects.

H318 Causes serious eye damage.



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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 Dam. 1	3.3/1	Serious eye damage, Category 1
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

This safety data sheet has been completely updated in compliance to Regulation 2020/878. 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 2, H411	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



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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.