

Safety Data Sheet

AIRTECH CAR ORIENTAL FLOWER REFILL 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 ORIENTAL FLOWER REFILL ML 7

Trade code: 1427

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. 1A, 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

HYDROXYISOHEXYL 3-CYCLOHEXENECARBOXALDEHYDE (=Denominaizone INCI)

BUTYLPHENYL METHYLPROPIONAL (=Denominazione INCI): May produce an allergic reaction.

ALPHA-ISOMETHYL IONONE: May produce an allergic reaction.

Benzyl salicylate: May produce an allergic reaction.

CITRONELLOL: May produce an allergic reaction.

HYDROXYCITRONELLAL: May produce an allergic reaction.

[3R-(3a,3aβ,7β,8aa)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one: May produce an allergic reaction.

OTNE [1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtalenyl)-ethanone]: May produce an allergic reaction.

3-(3,4-METHYLENEDIOXYPHENYL)-2-METHYLPROPANAL: May produce an allergic reaction.

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

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

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

>= 40% - < 50% Dipropylen glycol methyl ether

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

Substance with a Union workplace exposure limit.

>= 1% - < 2% BUTYLPHENYL METHYLPROPIONAL (=Denominazione INCI)

REACH No.: 01-2119485965-18, CAS: 80-54-6, EC: 201-289-8

⚠ 3.1/4/Oral Acute Tox. 4 H302

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1 Skin Sens. 1 H317

⚠ 3.7/2 Repr. 2 H361

⚠ 4.1/C2 Aquatic Chronic 2 H411

>= 0.5% - < 1% ALPHA-ISOMETHYL IONONE

CAS: 127-51-5

⚠ 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

>= 0.5% - < 1% Benzyl salicylate

REACH No.: 01-2119969442-31, CAS: 118-58-1, EC: 204-262-9

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.4.2/1B Skin Sens. 1B H317

4.1/C3 Aquatic Chronic 3 H412

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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% HYDROXYCITRONELLAL

CAS: 107-75-5, EC: 203-518-7

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.4.2/1B Skin Sens. 1B H317

>= 0.25% - < 0.5% HYDROXYISOHEXYL 3-CYCLOHEXENECARBOXALDEHYDE (=Denominaizone INCI)

CAS: 31906-04-4, EC: 250-863-4

⚠ 3.4.2/1A Skin Sens. 1A H317

>= 0.1% - < 0.25% HHCB

REACH No.: 01-2119488227-29, Index number: 603-212-00-7, CAS: 1222-05-5, EC: 214-946-9

⚠ 4.1/A1 Aquatic Acute 1 H400

⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 0.1% - < 0.25% CIS 3 HEXENYL SILICYLATE

REACH No.: 01-2119987320-37, CAS: 65405-77-8, EC: 265-745-8

⚠ 4.1/A1 Aquatic Acute 1 H400

>= 0.1% - < 0.25% OTNE [1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtalenyl)-ethanone]

CAS: 54464-57-2, EC: 259-174-3

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1B Skin Sens. 1B H317

⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 0.1% - < 0.25%

[3R-(3a,3aβ,7β,8aa)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one

REACH No.: 01-2119969651-28, CAS: 32388-55-9, EC: 251-020-3

⚠ 3.4.2/1B Skin Sens. 1B H317

⚠ 4.1/A1 Aquatic Acute 1 H400

⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 0.1% - < 0.25% 3-(3,4-METHYLENEDIOXYPHENYL)-2-METHYLPROPANAL

CAS: 1205-17-0, EC: 214-881-6

⚠ 3.4.2/1B Skin Sens. 1B H317

⚠ 4.1/C2 Aquatic Chronic 2 H411

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 well-closed containers, preferably in a cool place, away from sources of heat and direct sunlight.

Store in a dry place.

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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

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

BUTYLPHENYL METHYLPROPIONAL (=Denominazione INCI) - CAS: 80-54-6

Worker Professional: 2.075 mg/kg - Consumer: 1.0375 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 0.44 mg/m³ - Consumer: 0.11 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 0.0625 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Benzyl salicylate - CAS: 118-58-1

Worker Professional: 0.9 mg/kg - Consumer: 0.45 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 3.17 mg/m³ - Consumer: 0.78 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 0.45 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

CITRONELLOL - CAS: 106-22-9

Worker Professional: 327.4 mg/kg - Consumer: 194.4 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

HHCB - CAS: 1222-05-5

Worker Professional: 25.85 mg/kg - Consumer: 14.43 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

Consumer: 0.75 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

CIS 3 HEXENYL SILICYLATE - CAS: 65405-77-8

Worker Professional: 0.9 mg/kg - Consumer: 0.45 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

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Worker Professional: 1.59 mg/m³ - Consumer: 0.39 mg/m³ - Exposure: Human
Inhalation - Frequency: Long Term, systemic effects
Consumer: 0.23 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

[3R-(3a,3a β ,7 β ,8aa)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one - CAS: 32388-55-9

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 - Frequency: Long Term, systemic 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: 7.02 mg/kg

Target: Freshwater sediments - Value: 70.2 mg/kg

Target: 09 - Value: 4168 mg/l

BUTYLPHENYL METHYLPROPIONAL (=Denominazione INCI) - CAS: 80-54-6

Target: Fresh Water - Value: 0.00204 mg/l

Target: Marine water - Value: 0.0002 mg/l

Target: Freshwater sediments - Value: 0.269 mg/kg

Target: Marine water sediments - Value: 0.0269 mg/kg

Target: 09 - Value: 10 mg/l

Benzyl salicylate - CAS: 118-58-1

Target: Fresh Water - Value: 0.00103 mg/l

Target: Marine water - Value: 0.000103 mg/l

Target: Freshwater sediments - Value: 0.584 mg/kg

Target: Marine water sediments - Value: 0.0584 mg/kg

Target: 09 - Value: 10 mg/l

CITRONELLOL - CAS: 106-22-9

Target: Fresh Water - Value: 0.0044 mg/l

Target: Marine water - Value: 0.00044 mg/l

Target: Freshwater sediments - Value: 0.0256 mg/kg

Target: Marine water sediments - Value: 0.00256 mg/kg

Target: 09 - Value: 580 mg/l

HHCB - CAS: 1222-05-5

Target: Fresh Water - Value: 0.0044 mg/l

Target: Marine water - Value: 0.00044 mg/l

Target: Freshwater sediments - Value: 2 mg/kg

Target: Marine water sediments - Value: 0.394 mg/kg

Target: 09 - Value: 1 mg/l

CIS 3 HEXENYL SALICYLATE - CAS: 65405-77-8

Target: Fresh Water - Value: 0.00061 mg/l

Target: Marine water - Value: 0.000061 mg/l

Target: Freshwater sediments - Value: 0.11 mg/kg

Target: Marine water sediments - Value: 0.011 mg/kg

Target: 09 - Value: 10 mg/l

[3R-(3a,3a β ,7 β ,8aa)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one - CAS: 32388-55-9

Target: Fresh Water - Value: 0.0024 mg/l

Target: Marine water - Value: 0.00024 mg/l

Target: Freshwater sediments - Value: 24.4 mg/kg

Target: Marine water sediments - Value: 2.44 mg/kg

Target: 09 - Value: 10 mg/l

8.2. Exposure controls

Eye protection:

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Anti-splash goggles
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:
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:	139°C	--	--
Flash point:	78°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:	987 kg/m3	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	240°C	--	--
Decomposition	N.A.	--	--

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temperature:			
Viscosity:	N.A.	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

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

NA=not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Strong alkali.

Strong acids.

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. 1A H317

e) germ cell mutagenicity

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

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

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

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

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

Based on available data, the classification criteria are not met
Toxicological information of the main substances found in the product:

Dipropyl 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

BUTYLPHENYL METHYLPROPIONAL (=Denominazione INCI) - CAS: 80-54-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 1390 mg/kg

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

Test: LD50 - Route: Inhalation > 20 mg/l - Duration: 4h

ALPHA-ISOMETHYL IONONE - CAS: 127-51-5

a) acute toxicity:

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

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

Benzyl salicylate - CAS: 118-58-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 220 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 14150 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: LCLo - Route: Inhalation > 20 mg/kg

HYDROXYCITRONELLAL - CAS: 107-75-5

a) acute toxicity:

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

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

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

HYDROXYISOHEXYL 3-CYCLOHEXENECARBOXALDEHYDE (=Denominazione INCI) - CAS: 31906-04-4

a) acute toxicity:

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

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

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

HHCB - CAS: 1222-05-5

a) acute toxicity:

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

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

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

CIS 3 HEXENYL SALICYLATE - CAS: 65405-77-8

a) acute toxicity:

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Test: LD50 - Route: Oral - Species: Rat 3339 mg/kg

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

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

OTNE [1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-ethanone] - CAS: 54464-57-2

a) acute toxicity:

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

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

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

[3R-(3a,3aβ,7β,8aa)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one - CAS: 32388-55-9

a) acute toxicity:

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

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

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

3-(3,4-METHYLENEDIOXYPHENYL)-2-METHYLPROPANAL - CAS: 1205-17-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 3550 mg/kg

Test: LD50 - Route: Skin > 2000 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.

Dipropyl 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

BUTYLPHENYL METHYLPROPIONAL (=Denominazione INCI) - CAS: 80-54-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 2 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 11 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae 29 mg/l - Duration h: 72

ALPHA-ISOMETHYL IONONE - CAS: 127-51-5

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

Benzyl salicylate - CAS: 118-58-1

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: CE5 - Species: Algae 10-100 mg/l - Duration h: 72

HHCB - CAS: 1222-05-5

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

CIS 3 HEXENYL SILICYLATE - CAS: 65405-77-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 3.8 mg/l - Duration h: 96

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

Endpoint: EC50 - Species: Algae 0.61 mg/l - Duration h: 72

OTNE [1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-ethanone] - CAS: 54464-57-2

a) Aquatic acute toxicity:

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- 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
[3R-(3a,3aβ,7β,8aa)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one - CAS: 32388-55-9
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 0.1-1 - Duration h: 96
Endpoint: EC50 - Species: Daphnia 0.1-1
Endpoint: EC50 - Species: Algae 0.1-1
3-(3,4-METHYLENEDIOXYPHENYL)-2-METHYLPROPANAL - CAS: 1205-17-0
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia 1-10 mg/l
Endpoint: LC50 - Species: Fish 1-10 mg/l - Duration h: 96
Endpoint: EC50 - Species: Algae 1-10 mg/l
- 12.2. Persistence and degradability
None
Dipropylen glycol methyl ether - CAS: 34590-94-8
Biodegradability: Readily biodegradable - Duration: 28gg - %: 73
BUTYLPHENYL METHYLPROPIONAL (=Denominazione INCI) - CAS: 80-54-6
Biodegradability: 4 - Duration: 28gg - %: 81
Benzyl salicylate - CAS: 118-58-1
Biodegradability: 4 - Duration: 28gg - %: 93
HYDROXYISOHEXYL 3-CYCLOHEXENECARBOXALDEHYDE (=Denominazione INCI) - CAS: 31906-04-4
Biodegradability: 4 - Duration: 28gg - %: 66
CIS 3 HEXENYL SALICYLATE - CAS: 65405-77-8
Biodegradability: 4 - Duration: 28gg - %: 89
- 12.3. Bioaccumulative potential
Dipropylen glycol methyl ether - CAS: 34590-94-8
Bioaccumulation: Not bioaccumulative - Test: log Pow -0.06
BUTYLPHENYL METHYLPROPIONAL (=Denominazione INCI) - CAS: 80-54-6
Bioaccumulation: Bioaccumulative - Test: log Pow 4.2
Test: BCF - Bioconcentration factor 275
Benzyl salicylate - CAS: 118-58-1
Bioaccumulation: Bioaccumulative - Test: BCF - Bioconcentration factor 311
Test: log Pow 4
HYDROXYISOHEXYL 3-CYCLOHEXENECARBOXALDEHYDE (=Denominazione INCI) - CAS: 31906-04-4
Bioaccumulation: Bioaccumulative - Test: log Pow 2.53
HHCB - CAS: 1222-05-5
Bioaccumulation: Bioaccumulative - Test: BCF - Bioconcentration factor 1584
Test: log Pow 5.9
- 12.4. Mobility in soil
BUTYLPHENYL METHYLPROPIONAL (=Denominazione INCI) - CAS: 80-54-6
Test: Log Koc 1285
Benzyl salicylate - CAS: 118-58-1
Test: Log Koc 5600
HHCB - CAS: 1222-05-5
Test: Log Koc 870
- 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.

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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

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 = 50.46 %

Volatile Organic compounds - VOCs = 504.60 g/Kg

Volatile Organic compounds - VOCs = 498.04 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)

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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:
H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H361 Suspected of damaging fertility or the unborn child.
H411 Toxic to aquatic life with long lasting effects.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
Repr. 2	3.7/2	Reproductive toxicity, Category 2
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]:

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Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Sens. 1A, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method

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

Main bibliographic sources:

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

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

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

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

This MSDS cancels and replaces any preceding release.

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