

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

1.1. Product identifier

Product form	: Mixture
Product name	: DEO MATIC RICARICA MUSCHIO BIANCO BON AIR
UFI	: 4TSY-P84P-R00X-CDUK
Vaporizer	: Aerosol
Product group	: Trade product

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

1.2.1. Relevant identified uses

Intended for general public	
Main use category	: Consumer use
Use of the substance/mixture	: Air freshener Deodorant for rooms

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

GOLF KIMYA SAN. VE TIC. LTD. STI.
Gökevler Mah. 2312 Sok.
Ginza Korner Plaza No:16/C Kat:9/109
Istanbul – Esenyurt
TURKEY
T +90 282 661 20 20
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1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol, Category 1	H222;H229
Serious eye damage/eye irritation, Category 2	H319
Full text of H- and EUH-statements: see section 16	

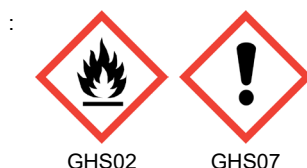
Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol. Causes serious eye irritation.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

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Hazard statements (CLP)	: H222 - Extremely flammable aerosol. H229 - Pressurised container: May burst if heated. H319 - Causes serious eye irritation.
Precautionary statements (CLP)	: P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 - Do not spray on an open flame or other ignition source. P251 - Do not pierce or burn, even after use. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 122 °F, 50 °C.
Child-resistant fastening	: Not applicable
Tactile warning	: Not applicable

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Petroleum gases, liquefied; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C7 and boiling in the range of approximately– 40°C to 80°C (– 40°F to 176°F).] (Note K)(Note S)(Note U)	CAS-No.: 68476-85-7 EC-No.: 270-704-2 EC Index-No.: 649-202-00-6	70	Flam. Gas 1, H220 Press. Gas (Liq.), H280
ethanol; ethyl alcohol	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5	28	Flam. Liq. 2, H225 Eye Irrit. 2, H319
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB)	CAS-No.: 1222-05-5 EC-No.: 214-946-9 EC Index-No.: 603-212-00-7	0.196	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Phenethyl alcohol	CAS-No.: 60-12-8 EC-No.: 200-456-2	0.11	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Irrit. 2, H319
4-tert-butylcyclohexyl acetate	CAS-No.: 32210-23-4 EC-No.: 250-954-9	0.064	Skin Sens. 1B, H317
reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	CAS-No.: 54464-57-2 EC-No.: 915-730-3	0.06	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
methyl cedryl ether	CAS-No.: 67874-81-1 EC-No.: 267-510-5	0.05	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Tetrahydro-4-methyl-2-(2-methylpropyl)-2H-pyran-4-ol	CAS-No.: 63500-71-0 EC-No.: 405-040-6 EC Index-No.: 603-101-00-3	0.048	Not classified
6-acetyl-1,1,2,4,4,7-hexamethyl tetralin (tonalide, fixolide, ahntn)	CAS-No.: 1506-02-1 EC-No.: 216-133-4	0.044	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2	0.04	Skin Sens. 1B, H317
Nerol	CAS-No.: 106-25-2 EC-No.: 203-378-7	0.0276	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
alpha-iso-methylionone	CAS-No.: 127-51-5 EC-No.: 204-846-3	0.0262	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
geraniol	CAS-No.: 106-24-1 EC-No.: 203-377-1 EC Index-No.: 603-241-00-5	0.025	Not classified
Citronellol	CAS-No.: 106-22-9 EC-No.: 203-375-0	0.0248	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1B, H317
benzyl salicylate	CAS-No.: 118-58-1 EC-No.: 204-262-9	0.024	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
benzyl alcohol	CAS-No.: 100-51-6 EC-No.: 202-859-9 EC Index-No.: 603-057-00-5	0.02	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=11 mg/l/4h) Eye Irrit. 2, H319
Coumarin	CAS-No.: 91-64-5 EC-No.: 202-086-7	0.02	Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Methyl ionone	CAS-No.: 1335-46-2 EC-No.: 215-635-0	0.0138	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
Dec-9-en-1-ol	CAS-No.: 13019-22-2 EC-No.: 235-878-6	0.012	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
Butylated hydroxytoluene	CAS-No.: 128-37-0 EC-No.: 204-881-4	0.008	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Tetrahydrogeraniol	CAS-No.: 106-21-8 EC-No.: 203-374-5	0.007	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
4-acetyl-6-t-butyl-1,1-dimethylindan	CAS-No.: 13171-00-1 EC-No.: 236-114-4	0.006	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-tert-butylcyclohexyl acetate	CAS-No.: 88-41-5 EC-No.: 201-828-7	0.0056	Aquatic Chronic 2, H411
Reaction mass of (3R,5R)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and (3R,5S)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and (E)-3,4,5,6,6-pentamethylhept-3-en-2-one	CAS-No.: 81786-73-4 EC-No.: 939-627-8	0.005	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran	CAS-No.: 16409-43-1 EC-No.: 240-457-5	0.004	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361
cedrol	CAS-No.: 77-53-2 EC-No.: 201-035-6	0.0036	Aquatic Chronic 2, H411
(2E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	CAS-No.: 24720-09-0 EC-No.: 246-430-4	0.002	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Sens. 1B, H317 Aquatic Chronic 2, H411
3,3,5,5-tetramethyl-4-ethoxyvinyl cyclohexanone	CAS-No.: 36306-87-3 EC-No.: 252-961-2	0.002	Skin Irrit. 2, H315 Aquatic Chronic 2, H411
beta-methylionone	CAS-No.: 127-43-5 EC-No.: 204-843-7	0.002	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
3-(4-isobutyl-2-methylphenyl)propanal	CAS-No.: 1637294-12-2 EC-No.: 811-285-3	0.0016	Acute Tox. 4 (Inhalation), H332 (ATE=4500 ppmv/4h) Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
10-undecenal	CAS-No.: 112-45-8 EC-No.: 203-973-1	0.0006	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411

Note K: The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w 1,3-butadiene (EINECS No 203-450-8), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102)-P210-P403 shall apply.

Note S: Note S : This substance may not require a label according to Article 17 (see section 1.3 of Annex I) (Table 3).

Note U: When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.), Press. Gas (Liq.), Press. Gas (Ref. Liq.), Press. Gas (Diss.). Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Do not induce vomiting. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after eye contact : Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).
Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Contact with combustible material may cause fire. Extremely flammable aerosol.
Explosion hazard : Risk of explosion if heated under confinement. Pressurised container: May burst if heated.
Hazardous decomposition products in case of fire : On heating or during combustion : Toxic fumes may be released.

5.3. Advice for firefighters

Precautionary measures fire : Keep away from combustible materials. Keep container closed when not in use. Approach from upwind.
Firefighting instructions : Exercise caution when fighting any chemical fire. Keep upwind. Do not enter fire area without proper protective equipment, including respiratory protection. Eliminate all ignition sources if safe to do so. Contain the extinguishing fluids by bunding.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information : Do not allow run-off from fire fighting to enter drains or water courses. Notify authorities if product enters sewers or public waters. High temperature decomposition products are harmful by inhalation. Inhalation of vapour can cause breathing difficulties.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Keep public away from danger area.

6.1.1. For non-emergency personnel

Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Ventilate spillage area. Do not touch or walk on the spilled product. Notify fire brigade and environmental authorities. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Evacuate unnecessary personnel. Equip cleanup crew with proper protection. Stop leak if safe to do so. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Do not touch or walk on the spilled product.

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- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Notify authorities if product enters sewers or public waters. Mechanically recover the product.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact with skin and eyes.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool well ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
- Incompatible products : Strong acids. Strong bases. Strong oxidizing agents.
- Incompatible materials : Extremely high or low temperatures.
- Heat and ignition sources : Keep away from heat and direct sunlight. Keep away from sources of ignition.
- Information on mixed storage : Keep away from food, drink and animal feeding stuffs.
- Storage area : Store, if possible, in a cool, well ventilated place away from incompatible materials.

7.3. Specific end use(s)

See Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

ethanol; ethyl alcohol (64-17-5)	
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Ethanol
AGW (OEL TWA) [1]	380 mg/m ³
AGW (OEL TWA) [2]	200 ppm
Peak exposure limitation factor	4(II)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
benzyl alcohol (100-51-6)	
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	22 mg/m ³
AGW (OEL TWA) [2]	5 ppm

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benzyl alcohol (100-51-6)	
Peak exposure limitation factor	2(I)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); H - hautresorptiv; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden; 11 - Summe aus Dampf und Aerosolen
Regulatory reference	TRGS900

Butylated hydroxytoluene (128-37-0)	
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	10 mg/m ³ (E)
Peak exposure limitation factor	4(II)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden; 11 - Summe aus Dampf und Aerosolen
Regulatory reference	TRGS900

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

ethanol; ethyl alcohol (64-17-5)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	1900 mg/m ³
Long-term - systemic effects, dermal	343 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	950 mg/m ³
DNEL/DMEL (General population)	
Acute - local effects, inhalation	950 mg/m ³
Long-term - systemic effects, oral	87 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	114 mg/m ³
Long-term - systemic effects, dermal	206 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.96 mg/l
PNEC aqua (marine water)	0.79 mg/l
PNEC aqua (intermittent, freshwater)	2.75 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	3.6 mg/kg dwt
PNEC sediment (marine water)	2.9 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.63 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	0.72 g/kg food

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ethanol; ethyl alcohol (64-17-5)	
PNEC (STP)	
PNEC sewage treatment plant	580 mg/l
Petroleum gases, liquefied; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C7 and boiling in the range of approximately– 40°C to 80°C (– 40°F to 176°F).] (68476-85-7)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	23.4 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.21 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	0.0664 mg/m ³
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	60 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	22 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	3.8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	6.5 mg/m ³
Long-term - systemic effects, dermal	36 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	4.4 µg/l
PNEC aqua (marine water)	0.44 µg/l
PNEC aqua (intermittent, freshwater)	30 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	2 mg/kg dwt
PNEC sediment (marine water)	0.394 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.31 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	3.3 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	1 mg/l
4-tert-butylcyclohexyl acetate (32210-23-4)	
PNEC (Water)	
PNEC aqua (freshwater)	5.3 µg/l
PNEC aqua (marine water)	0.53 µg/l
PNEC aqua (intermittent, freshwater)	53 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	2.01 mg/kg dwt
PNEC sediment (marine water)	0.21 mg/kg dwt

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4-tert-butylcyclohexyl acetate (32210-23-4)	
PNEC (Soil)	
PNEC soil	0.42 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	66.67 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	12.2 mg/l
reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (54464-57-2)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	28.7 mg/kg bodyweight/day
Long-term - local effects, dermal	648 µg/cm ²
Long-term - systemic effects, inhalation	30 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	9 mg/m ³
Long-term - systemic effects, dermal	17.2 mg/kg bodyweight/day
Long-term - local effects, dermal	380 µg/cm ²
PNEC (Water)	
PNEC aqua (freshwater)	4.4 µg/l
PNEC aqua (marine water)	0.44 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	3.73 mg/kg dwt
PNEC sediment (marine water)	0.75 mg/kg dwt
PNEC (Soil)	
PNEC soil	2.7 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	26.7 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l
methyl cedryl ether (67874-81-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	4.5 mg/kg bodyweight/day
Long-term - local effects, dermal	2030 µg/cm ²
Long-term - systemic effects, inhalation	16.1 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	2.7 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	4.7 mg/m ³
Long-term - systemic effects, dermal	2.7 mg/kg bodyweight/day

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methyl cedryl ether (67874-81-1)	
Long-term - local effects, dermal	1220 µg/cm ²
PNEC (Water)	
PNEC aqua (freshwater)	0.43 µg/l
PNEC aqua (marine water)	0.043 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1.29 mg/kg dwt
PNEC sediment (marine water)	0.129 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.257 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l
Tetrahydro-4-methyl-2-(2-methylpropyl)-2H-pyran-4-ol (63500-71-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	41.7 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	44.1 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	7.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	13 mg/m ³
Long-term - systemic effects, dermal	25 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.094 mg/l
PNEC aqua (marine water)	0.0094 mg/l
PNEC aqua (intermittent, freshwater)	0.94 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.412 mg/kg dwt
PNEC sediment (marine water)	0.0412 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.0902 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l
6-acetyl-1,1,2,4,4,7-hexamethyl tetralin (tonalide, fixolide, ahtn) (1506-02-1)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	0.525 mg/m ³
Long-term - systemic effects, dermal	0.61 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.175 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	0.131 mg/m ³
Acute - systemic effects, oral	1.2 mg/kg bodyweight/day

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6-acetyl-1,1,2,4,4,7-hexamethyl tetralin (tonalide, fixolide, ahtn) (1506-02-1)	
Long-term - systemic effects, oral	0.0125 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.0435 mg/m ³
Long-term - systemic effects, dermal	0.305 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	2.2 µg/l
PNEC aqua (marine water)	0.22 µg/l
PNEC aqua (intermittent, freshwater)	6.1 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1.72 mg/kg dwt
PNEC sediment (marine water)	0.345 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.0099 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	1.1 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	2.2 mg/l
Linalool (78-70-6)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	5 mg/kg bodyweight/day
Acute - systemic effects, inhalation	16.5 mg/m ³
Acute - local effects, dermal	3 mg/cm ²
Long-term - systemic effects, dermal	2.5 mg/kg bodyweight/day
Long-term - local effects, dermal	3 mg/cm ²
Long-term - systemic effects, inhalation	2.8 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	2.5 mg/kg bodyweight/day
Acute - systemic effects, inhalation	4.1 mg/m ³
Acute - systemic effects, oral	1.2 mg/kg bodyweight/day
Acute - local effects, dermal	1.5 mg/cm ²
Long-term - systemic effects, oral	0.2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.7 mg/m ³
Long-term - systemic effects, dermal	1.25 mg/kg bodyweight/day
Long-term - local effects, dermal	1.5 mg/cm ²
PNEC (Water)	
PNEC aqua (freshwater)	0.2 mg/l
PNEC aqua (marine water)	0.02 mg/l
PNEC aqua (intermittent, freshwater)	2 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	2.22 mg/kg dwt

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Linalool (78-70-6)	
PNEC sediment (marine water)	0.222 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.327 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	7.8 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l
Nerol (106-25-2)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	1.25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	4.4 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.62 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.09 mg/m ³
Long-term - systemic effects, dermal	0.62 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	7.45 µg/l
PNEC aqua (marine water)	0.745 µg/l
PNEC aqua (intermittent, freshwater)	74.5 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	133 µg/kg dw
PNEC sediment (marine water)	13.3 µg/kg dw
PNEC (Soil)	
PNEC soil	22.3 µg/kg dw
PNEC (STP)	
PNEC sewage treatment plant	12.9 mg/l
alpha-iso-methylionone (127-51-5)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.375 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	8.22 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	35.5 µg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.45 mg/m ³
Long-term - systemic effects, dermal	44.6 µg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	1.43 µg/l
PNEC aqua (marine water)	0.143 µg/l
PNEC aqua (intermittent, freshwater)	14.3 µg/l

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alpha-iso-methylionone (127-51-5)	
PNEC aqua (intermittent, marine water)	1.43 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.443 mg/kg dwt
PNEC sediment (marine water)	44.3 µg/kg dw
PNEC (Soil)	
PNEC soil	87.8 µg/kg dw
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l
geraniol (106-24-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	12.5 mg/kg bodyweight/day
Long-term - local effects, dermal	11800 µg/cm ²
Long-term - systemic effects, inhalation	161.6 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	13.75 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	47.8 mg/m ³
Long-term - systemic effects, dermal	7.5 mg/kg bodyweight/day
Long-term - local effects, dermal	11800 µg/cm ²
PNEC (Water)	
PNEC aqua (freshwater)	0.0108 mg/l
PNEC aqua (marine water)	0.00108 mg/l
PNEC aqua (intermittent, freshwater)	0.108 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.115 mg/kg dwt
PNEC sediment (marine water)	0.0115 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.0167 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.7 mg/l
Citronellol (106-22-9)	
DNEL/DMEL (Workers)	
Acute - local effects, dermal	2950 µg/cm ²
Acute - local effects, inhalation	10 mg/m ³
Long-term - systemic effects, dermal	327.4 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	161.6 mg/m ³
Long-term - local effects, inhalation	10 mg/m ³
DNEL/DMEL (General population)	
Acute - local effects, dermal	2950 µg/cm ²

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Citronellol (106-22-9)	
Acute - local effects, inhalation	10 mg/m ³
Long-term - systemic effects, oral	13.8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	47.8 mg/m ³
Long-term - systemic effects, dermal	196.4 mg/kg bodyweight/day
Long-term - local effects, inhalation	10 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.0024 mg/l
PNEC aqua (marine water)	0.00024 mg/l
PNEC aqua (intermittent, freshwater)	0.024 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.0256 mg/kg dwt
PNEC sediment (marine water)	0.00256 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.00371 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	580 mg/l
benzyl salicylate (118-58-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	2.21 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	7.8 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.79 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.37 mg/m ³
Long-term - systemic effects, dermal	0.79 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.00103 mg/l
PNEC aqua (marine water)	0.000103 mg/l
PNEC aqua (intermittent, freshwater)	0.0103 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.583 mg/kg dwt
PNEC sediment (marine water)	0.0583 mg/kg dwt
PNEC (Soil)	
PNEC soil	1.41 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	52.7 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

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(2E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one (24720-09-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.78 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.74 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.39 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.67 mg/m ³
Long-term - systemic effects, dermal	0.39 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	1.09 µg/l
PNEC aqua (marine water)	0.11 µg/l
PNEC aqua (intermittent, freshwater)	10.9 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.107 mg/kg dwt
PNEC sediment (marine water)	0.011 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.021 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	6.67 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	3.2 mg/l
Coumarin (91-64-5)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.79 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	6.78 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.39 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.69 mg/m ³
Long-term - systemic effects, dermal	0.39 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	19 µg/l
PNEC aqua (marine water)	1.9 µg/l
PNEC aqua (intermittent, freshwater)	14.2 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.15 mg/kg dwt
PNEC sediment (marine water)	0.015 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.018 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	30.7 mg/kg food

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Coumarin (91-64-5)	
PNEC (STP)	
PNEC sewage treatment plant	6.4 mg/l
Methyl ionone (1335-46-2)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	14.8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	26.1 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	3.7 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	6.4 mg/m ³
Long-term - systemic effects, dermal	7.4 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.0023 mg/l
PNEC aqua (marine water)	0.00023 mg/l
PNEC aqua (intermittent, freshwater)	0.023 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.246 mg/kg dwt
PNEC sediment (marine water)	0.0246 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.0477 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l
Butylated hydroxytoluene (128-37-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.76 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	0.25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.435 mg/m ³
Long-term - systemic effects, dermal	0.25 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.199 µg/l
PNEC aqua (marine water)	0.0199 µg/l
PNEC aqua (intermittent, freshwater)	1.99 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.45819 mg/kg dwt
PNEC sediment (marine water)	0.04582 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.0539 mg/kg dwt

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Butylated hydroxytoluene (128-37-0)	
PNEC (Oral)	
PNEC oral (secondary poisoning)	16.67 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	0.017 mg/l
Tetrahydrogeraniol (106-21-8)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	1.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	5.3 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.75 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.3 mg/m ³
Long-term - systemic effects, dermal	0.75 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.0036 mg/l
PNEC aqua (marine water)	0.00036 mg/l
PNEC aqua (intermittent, freshwater)	0.036 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.134 mg/kg dwt
PNEC sediment (marine water)	0.0134 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.0246 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	450 mg/l
Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran (16409-43-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.2 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.3 mg/m ³
Long-term - systemic effects, dermal	0.2 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	33.2 µg/l
PNEC aqua (marine water)	3.32 µg/l
PNEC aqua (intermittent, freshwater)	0.332 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	2.29 mg/kg dwt
PNEC sediment (marine water)	0.229 mg/kg dwt

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Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran (16409-43-1)	
PNEC (Soil)	
PNEC soil	0.437 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l
3,3,5,5-tetramethyl-4-ethoxyvinyl cyclohexanone (36306-87-3)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	1.94 mg/kg bodyweight/day
Acute - systemic effects, inhalation	6.84 mg/m ³
Acute - local effects, dermal	4.85 mg/cm ²
Acute - local effects, inhalation	17.1 mg/m ³
Long-term - systemic effects, dermal	1.94 mg/kg bodyweight/day
Long-term - local effects, dermal	4.85 mg/cm ²
Long-term - systemic effects, inhalation	6.84 mg/m ³
Long-term - local effects, inhalation	17.1 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	0.97 mg/kg bodyweight/day
Acute - systemic effects, inhalation	1.69 mg/m ³
Acute - systemic effects, oral	0.97 mg/kg bodyweight/day
Acute - local effects, dermal	2.43 mg/cm ²
Acute - local effects, inhalation	4.22 mg/m ³
Long-term - systemic effects, oral	0.97 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.69 mg/m ³
Long-term - systemic effects, dermal	0.97 mg/kg bodyweight/day
Long-term - local effects, dermal	2.43 mg/cm ²
Long-term - local effects, inhalation	4.22 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	8.4 µg/l
PNEC aqua (marine water)	0.84 µg/l
PNEC aqua (intermittent, freshwater)	84 µg/l
PNEC aqua (intermittent, marine water)	84 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	2871 mg/kg dwt
PNEC sediment (marine water)	0.2871 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.5712 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	6.5 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

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3-(4-isobutyl-2-methylphenyl)propanal (1637294-12-2)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.83 mg/kg bodyweight/day
Long-term - local effects, dermal	178.57 µg/cm ²
Long-term - systemic effects, inhalation	2.47 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.435 mg/m ³
Long-term - systemic effects, dermal	0.42 mg/kg bodyweight/day
Long-term - local effects, dermal	89.29 µg/cm ²
PNEC (Water)	
PNEC aqua (freshwater)	6.4 µg/l
PNEC aqua (marine water)	0.64 µg/l
PNEC aqua (intermittent, freshwater)	10.1 µg/l
PNEC aqua (intermittent, marine water)	1.01 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1.3 mg/kg dwt
PNEC sediment (marine water)	0.13 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.256 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	5 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	1 mg/l
10-undecenal (112-45-8)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	4.67 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	16.4 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	1.67 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.47 mg/m ³
Long-term - systemic effects, dermal	1.67 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	20.1 µg/l
PNEC aqua (marine water)	2.01 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	94.5 mg/kg dwt
PNEC sediment (marine water)	9.45 mg/kg dwt
PNEC (Soil)	
PNEC soil	18.9 mg/kg dwt

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10-undecenal (112-45-8)

PNEC (STP)

PNEC sewage treatment plant	0.625 mg/l
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8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses. Wear protective clothing. Wear foot protection. Gas mask.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses. Use splash goggles when eye contact due to splashing is possible

8.2.2.2. Skin protection

Skin and body protection:

According to the conditions of use, protective gloves, apron, boots, head and face protection must be worn

Hand protection:

Protective gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. The breakthrough time of the selected gloves must be greater than the intended use period. Gloves must be replaced after each use and whenever signs of wear or perforation appear

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Aerosol.
Colour	: Characteristic.
Odour	: Characteristic.
Odour threshold	: No test data or calculation method available.
Melting point	: Not applicable
Freezing point	: No test data or calculation method available.
Boiling point	: No test data or calculation method available.
Flammability	: Extremely flammable aerosol.
Explosive properties	: Pressurised container: May burst if heated.

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Explosive limits	: No test data or calculation method available.
Lower explosion limit	: 1.9 vol % (Component: Petroleum gases, liquefied; Petroleum gas)
Upper explosion limit	: 9 vol % (Component: Petroleum gases, liquefied; Petroleum gas)
Flash point	: Not applicable
Auto-ignition temperature	: No test data or calculation method available.
Decomposition temperature	: No test data or calculation method available.
pH	: No test data or calculation method available.
Viscosity, kinematic	: No test data or calculation method available.
Solubility	: No test data or calculation method available.
Partition coefficient n-octanol/water (Log Kow)	: No test data or calculation method available.
Vapour pressure	: No test data or calculation method available.
Vapour pressure at 50°C	: No test data or calculation method available.
Density	: No test data or calculation method available.
Relative density	: No test data or calculation method available.
Relative vapour density at 20°C	: No test data or calculation method available.
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

% of flammable ingredients : 98.04 %

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

ethanol; ethyl alcohol (64-17-5)	
LD50 oral	10470 mg/kg bodyweight
LD50 dermal	15800 mg/kg bodyweight

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ethanol; ethyl alcohol (64-17-5)	
LC50 Inhalation - Rat	51 mg/l
LC50 Inhalation - Rat (Dust/Mist)	> 99999 mg/l
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)	
LD50 oral rat	> 4640 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:
LD50 dermal rat	> 10000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
Phenethyl alcohol (60-12-8)	
LD50 oral rat	1580 – 2020 mg/kg bodyweight Animal: rat, Guideline: other., 95% CL: 1,4 - 1,7
4-tert-butylcyclohexyl acetate (32210-23-4)	
LD50 oral rat	300 – 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)
reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (54464-57-2)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:
LD50 dermal rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
methyl cedryl ether (67874-81-1)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Tetrahydro-4-methyl-2-(2-methylpropyl)-2H-pyran-4-ol (63500-71-0)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.1 (Acute Toxicity (Oral)), Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
benzyl alcohol (100-51-6)	
LD50 oral	1580 mg/kg bodyweight Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1410 - 1770
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity), Remarks on results: other:
LC50 Inhalation - Rat	> 4178 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Remarks on results: other:
6-acetyl-1,1,2,4,4,7-hexamethyl tetralin (tonalide, fixolide, ahtn) (1506-02-1)	
LD50 oral rat	920 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 795 - 1066
LD50 dermal rat	7940 mg/kg bodyweight Animal: rat, Animal sex: female, Remarks on results: other., 95% CL: 4890 - 12900

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Linalool (78-70-6)	
LD50 oral rat	2790 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other., 95% CL: 2440 - 3180
LD50 dermal rabbit	5610 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 3578 - 8374
Nerol (106-25-2)	
LD50 oral rat	4500 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other., 95% CL: 3400 - 5600
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
alpha-iso-methylionone (127-51-5)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Remarks on results: other:
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
geraniol (106-24-1)	
LD50 oral rat	3600 mg/kg bodyweight Animal: rat, 95% CL: 2840 - 4570
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit
Citronellol (106-22-9)	
LD50 oral	3450 mg/kg bodyweight
LD50 dermal	2650 mg/kg bodyweight
benzyl salicylate (118-58-1)	
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
Coumarin (91-64-5)	
LD50 oral rat	293 mg/kg bodyweight Animal: rat, Guideline: other:
LD50 dermal rat	293 mg/kg bodyweight Animal: rat, Guideline: other:
Dec-9-en-1-ol (13019-22-2)	
LD50 oral rat	10000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: other:
Methyl ionone (1335-46-2)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 (Acute Toxicity (Oral))
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit
Butylated hydroxytoluene (128-37-0)	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Tetrahydrogeraniol (106-21-8)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit

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4-acetyl-6-t-butyl-1,1-dimethylindan (13171-00-1)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran (16409-43-1)	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit
cedrol (77-53-2)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
3,3,5,5-tetramethyl-4-ethoxyvinyl cyclohexanone (36306-87-3)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method)
3-(4-isobutyl-2-methylphenyl)propanal (1637294-12-2)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LC50 Inhalation - Rat	1 – 5 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)
10-undecenal (112-45-8)	
LD50 oral rat	5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Remarks on results: other:
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
alpha-iso-methylionone (127-51-5)	
pH	5.44 Temp.: 30 °C Concentration: 1 other: Remarks on result: 'other:'
10-undecenal (112-45-8)	
pH	5.07 Temp.: 29 °C Concentration: 1 other: Remarks on result: 'other:'
Serious eye damage/irritation	: Causes serious eye irritation.
alpha-iso-methylionone (127-51-5)	
pH	5.44 Temp.: 30 °C Concentration: 1 other: Remarks on result: 'other:'
10-undecenal (112-45-8)	
pH	5.07 Temp.: 29 °C Concentration: 1 other: Remarks on result: 'other:'
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
geraniol (106-24-1)	
NOAEL (chronic, oral, animal/male, 2 years)	60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:

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Butylated hydroxytoluene (128-37-0)	
NOAEL (chronic, oral, animal/male, 2 years)	25 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCb) (1222-05-5)	
NOAEL (animal/female, F1)	20 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 426 (Developmental Neurotoxicity Study), Guideline: other:
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
ethanol; ethyl alcohol (64-17-5)	
LOAEL (oral, rat, 90 days)	3200 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	1730 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other:
NOAEL (subchronic, oral, animal/male, 90 days)	< 9700 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)
NOAEL (subchronic, oral, animal/female, 90 days)	> 9400 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)
Petroleum gases, liquefied; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C7 and boiling in the range of approximately– 40°C to 80°C (– 40°F to 176°F).] (68476-85-7)	
LOAEC (inhalation, rat, gas, 90 days)	12000 ppm Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:
reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (54464-57-2)	
NOAEL (oral, rat, 90 days)	120 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study), Remarks on results: other:
Tetrahydro-4-methyl-2-(2-methylpropyl)-2H-pyran-4-ol (63500-71-0)	
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study), Guideline: EU Method B.28 (Sub-Chronic Dermal Toxicity Test: 90-Day Repeated Dermal Dose Study Using Rodent Species)
benzyl alcohol (100-51-6)	
NOAEL (oral, rat, 90 days)	400 mg/kg bodyweight Animal: rat, Guideline: other:
6-acetyl-1,1,2,4,4,7-hexamethyl tetralin (tonalide, fixolide, ahtn) (1506-02-1)	
NOAEL (dermal, rat/rabbit, 90 days)	≥ 10 mg/kg bodyweight Animal: rat, Animal sex: female
Linalool (78-70-6)	
NOAEL (dermal, rat/rabbit, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

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alpha-iso-methylionone (127-51-5)	
NOAEL (oral, rat, 90 days)	30 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	50 mg/kg bodyweight Animal: rat, Guideline: other:, Remarks on results: other:
geraniol (106-24-1)	
NOAEL (dermal, rat/rabbit, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: other:, Guideline: other:
Citronellol (106-22-9)	
NOAEL (oral, rat, 90 days)	2000 mg/kg bodyweight Animal: rat, Guideline: other:
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.063 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
benzyl salicylate (118-58-1)	
NOAEL (oral, rat, 90 days)	177 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
(2E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one (24720-09-0)	
LOAEL (oral, rat, 90 days)	500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	30 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
Coumarin (91-64-5)	
NOAEL (subchronic, oral, animal/female, 90 days)	> 138.3 mg/kg bodyweight Animal: mouse, Animal sex: female
3,3,5,5-tetramethyl-4-ethoxyvinyl cyclohexanone (36306-87-3)	
NOAEL (oral, rat, 90 days)	97 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:
3-(4-isobutyl-2-methylphenyl)propanal (1637294-12-2)	
NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: other:, Guideline: other:
10-undecenal (112-45-8)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

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Vaporizer	Aerosol
ethanol; ethyl alcohol (64-17-5)	
Viscosity, kinematic	1.488 mm ² /s
benzyl alcohol (100-51-6)	
Viscosity, kinematic	0.005 mm ² /s
Linalool (78-70-6)	
Viscosity, kinematic	5191.86 mm ² /s

11.2. Information on other hazards

No additional information available

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Not classified (Based on available data, the classification criteria are not met)
Not rapidly degradable	

ethanol; ethyl alcohol (64-17-5)	
LC50 - Fish [1]	14200 mg/l
EC50 - Crustacea [1]	> 10000 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	5012 mg/l waterflea
EC50 - Other aquatic organisms [2]	275 mg/l
EC50 96h - Algae [1]	≈ 22000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	9.6 mg/l Test organisms (species): Daphnia magna Duration: '9 d'

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCb) (1222-05-5)	
EC50 - Crustacea [1]	0.3 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0.723 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	> 0.854 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	0.075 mg/l Test organisms (species): other aquatic crustacea: Duration: '5,5 d'
NOEC chronic fish	0.068 mg/l Test organisms (species): Pimephales promelas Duration: '36 d'

Phenethyl alcohol (60-12-8)	
EC50 - Crustacea [1]	≈ 287.17 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	≈ 490 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

4-tert-butylcyclohexyl acetate (32210-23-4)	
LC50 - Fish [1]	8.6 mg/l Test organisms (species): Cyprinus carpio
EC50 - Crustacea [1]	5.3 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	22 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (54464-57-2)	
LC50 - Fish [1]	1.3 mg/l Test organisms (species): Lepomis macrochirus
EC50 - Crustacea [1]	1.38 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 2.6 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
LOEC (chronic)	0.244 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

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methyl cedryl ether (67874-81-1)	
LC50 - Fish [1]	0.43 mg/l Test organisms (species): <i>Cyprinus carpio</i>
EC50 - Crustacea [1]	0.48 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	> 1.8 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
EC50 72h - Algae [2]	1 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
Tetrahydro-4-methyl-2-(2-methylpropyl)-2H-pyran-4-ol (63500-71-0)	
LC50 - Fish [1]	354 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>)
LC50 - Fish [2]	354 mg/l Test organisms (species): other:
EC50 - Crustacea [1]	≈ 320 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 - Other aquatic organisms [1]	803 mg/l Test organisms (species): other aquatic crustacea:
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i>)
EC50 72h - Algae [2]	94 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i>)
benzyl alcohol (100-51-6)	
LC50 - Fish [1]	460 mg/l Test organisms (species): <i>Pimephales promelas</i>
EC50 - Crustacea [1]	230 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	770 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
EC50 72h - Algae [2]	500 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
EC50 96h - Algae [1]	76828 mg/l Test organisms (species): other:
NOEC chronic fish	48897 mg/l Test organisms (species): other: Duration: '30 d'
6-acetyl-1,1,2,4,4,7-hexamethyl tetralin (tonalide, fixolide, ahtn) (1506-02-1)	
LC50 - Fish [1]	1.49 mg/l Test organisms (species): <i>Lepomis macrochirus</i>
Linalool (78-70-6)	
LC50 - Fish [1]	27.8 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>)
EC50 - Crustacea [1]	59 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 96h - Algae [1]	88.3 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i>)
EC50 96h - Algae [2]	156.7 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i>)
Nerol (106-25-2)	
LC50 - Fish [1]	20.3 mg/l Test organisms (species): <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i>)
EC50 - Crustacea [1]	32.4 mg/l Test organisms (species): <i>Daphnia magna</i>
alpha-iso-methylionone (127-51-5)	
LC50 - Fish [1]	10.9 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>)
EC50 - Crustacea [1]	9 mg/l Test organisms (species): <i>Daphnia magna</i>

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alpha-iso-methylionone (127-51-5)	
EC50 72h - Algae [1]	> 20 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
geraniol (106-24-1)	
LC50 - Fish [1]	≈ 22 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	10.8 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	13.1 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
Citronellol (106-22-9)	
LC50 - Fish [1]	10 mg/l
EC50 - Crustacea [1]	17.48 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	17.48 mg/l waterflea
EC50 - Other aquatic organisms [2]	2.38 mg/l
EC50 72h - Algae [1]	2.4 mg/l Test organisms (species):
benzyl salicylate (118-58-1)	
LC50 - Fish [1]	1.03 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	1.16 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0.691 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	1.29 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
(2E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one (24720-09-0)	
LC50 - Fish [1]	1.09 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustacea [1]	2.37 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	5 mg/l Test organisms (species): other:
Coumarin (91-64-5)	
LC50 - Fish [1]	2.94 mg/l Test organisms (species):
LC50 - Fish [2]	1324 mg/l Test organisms (species):
EC50 - Crustacea [1]	8012 mg/l Test organisms (species): Daphnia sp.
EC50 96h - Algae [1]	1452 mg/l Test organisms (species):
NOEC (chronic)	0.5 mg/l Test organisms (species): Duration: '21 d'
NOEC chronic fish	0.191 mg/l Test organisms (species): Duration: '30 d'
Dec-9-en-1-ol (13019-22-2)	
EC50 - Crustacea [1]	3.8 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	3.6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
Methyl ionone (1335-46-2)	
EC50 72h - Algae [2]	7.47 mg/l Test organisms (species): Selenastrum sp.
Butylated hydroxytoluene (128-37-0)	
LC50 - Fish [1]	> 0.57 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)

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Butylated hydroxytoluene (128-37-0)	
LC50 - Other aquatic organisms [1]	5 mg/l (48h), <i>Oryzias latipes</i>
EC50 - Crustacea [1]	0.48 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 - Other aquatic organisms [1]	> 0.42 mg/l (72sa), <i>Scenedesmus subspicatus</i> , (IUCLID)
EC50 72h - Algae [1]	> 0.4 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i>)
LOEC (chronic)	1 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'
NOEC (chronic)	0.023 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'
Tetrahydrogeraniol (106-21-8)	
LC50 - Fish [1]	≈ 22 mg/l Test organisms (species): <i>Leuciscus idus</i>
EC50 - Crustacea [1]	3.6 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	21.6 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i>)
4-acetyl-6-t-butyl-1,1-dimethylindan (13171-00-1)	
EC50 - Crustacea [1]	0.43 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	> 0.49 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran (16409-43-1)	
LC50 - Fish [1]	77.6 mg/l Test organisms (species): <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i>)
EC50 - Crustacea [1]	33.2 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	36 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
EC50 72h - Algae [2]	79.7 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
cedrol (77-53-2)	
EC50 96h - Algae [1]	1596 mg/l Test organisms (species):
3,3,5,5-tetramethyl-4-ethoxyvinyl cyclohexanone (36306-87-3)	
LC50 - Fish [1]	9.1 mg/l Test organisms (species): <i>Cyprinus carpio</i>
EC50 - Crustacea [1]	8.4 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	25 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
EC50 72h - Algae [2]	10 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
3-(4-isobutyl-2-methylphenyl)propanal (1637294-12-2)	
LC50 - Fish [1]	1.09 mg/l Test organisms (species): <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i>)
EC50 - Crustacea [1]	1.01 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	1.55 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i>)
EC50 72h - Algae [2]	0.719 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i>)
10-undecenal (112-45-8)	
LC50 - Fish [1]	> 18.72 mg/l Test organisms (species): <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i>)

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10-undecenal (112-45-8)

EC50 - Crustacea [1]	1.3 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	> 5 mg/l Test organisms (species): Daphnia magna
NOEC (chronic)	0.201 mg/l Test organisms (species): Daphnia sp. Duration: '21 d'
NOEC chronic fish	0.213 mg/l Test organisms (species): other: Duration: '28 d'

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

ethanol; ethyl alcohol (64-17-5)

Partition coefficient n-octanol/water (Log Pow)	-0.32
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Citronellol (106-22-9)

Partition coefficient n-octanol/water (Log Pow)	3.1
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Butylated hydroxytoluene (128-37-0)

Bioaccumulative potential	Accumulation in organisms is not to be expected.
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Completely empty the packaging prior to decontamination. Recycle the material as far as possible. Comply with local regulations for disposal.
Ecology - waste materials	: Avoid release to the environment.

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HP Code	: HP3 - "Flammable:" – flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C; – flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air; – flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction; – flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa; – water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities; – other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste. HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.
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SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name				
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS
Transport document description				
UN 1950 AEROSOLS, 2.1, (D)	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1	UN 1950 AEROSOLS, 2.1	UN 1950 AEROSOLS, 2.1
14.3. Transport hazard class(es)				
2.1	2.1	2.1	2.1	2.1
				
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: 5F
Special provisions (ADR)	: 190, 327, 344, 625
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P207, LP200
Special packing provisions (ADR)	: PP87, RR6, L2
Mixed packing provisions (ADR)	: MP9
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V14

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Special provisions for carriage - Loading, unloading and handling (ADR) : CV9, CV12
Special provisions for carriage - Operation (ADR) : S2
Tunnel restriction code (ADR) : D

Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959
Limited quantities (IMDG) : SP277
Excepted quantities (IMDG) : E0
Packing instructions (IMDG) : P207, LP200
Special packing provisions (IMDG) : PP87, L2
EmS-No. (Fire) : F-D
EmS-No. (Spillage) : S-U
Stowage category (IMDG) : None
Stowage and handling (IMDG) : SW1, SW22
Segregation (IMDG) : SG69

Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 203
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203
CAO max net quantity (IATA) : 150kg
Special provisions (IATA) : A145, A167, A802
ERG code (IATA) : 10L

Inland waterway transport

Classification code (ADN) : 5F
Special provisions (ADN) : 190, 327, 344, 625
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E0
Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01, VE04
Number of blue cones/lights (ADN) : 1

Rail transport

Classification code (RID) : 5F
Special provisions (RID) : 190, 327, 344, 625
Limited quantities (RID) : 1L
Excepted quantities (RID) : E0
Packing instructions (RID) : P207, LP200
Special packing provisions (RID) : PP87, RR6, L2
Mixed packing provisions (RID) : MP9
Transport category (RID) : 2
Special provisions for carriage – Packages (RID) : W14
Special provisions for carriage - Loading, unloading and handling (RID) : CW9, CW12
Colis express (express parcels) (RID) : CE2
Hazard identification number (RID) : 23

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Germany

Employment restrictions

: Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

Water hazard class (WGK)

: WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).

Storage class (LGK, TRGS 510)

: LGK 2B - Aerosol dispensers and lighters.

Joint storage table

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Joint storage not permitted for

: LGK 1, LGK 4.1A, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.2, LGK 7.

Joint storage with restrictions permitted for

: LGK 2A, LGK 5.1C.

Joint storage permitted for

: LGK 2B, LGK 3, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13.

Hazardous Incident Ordinance (12. BImSchV)

: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Denmark

Danish National Regulations

: Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IOELV	Indicative Occupational Exposure Limit Value
Pow (log)	n-octanol/water partition coefficient

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Abbreviations and acronyms:

REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
WGK	Water Hazard Class

Data sources : Classification according to Regulation (EC) No. 1272/2008 [CLP]. ECHA (European Chemicals Agency). Supplier's safety documents.

Full text of H- and EUH-statements:

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1	Flammable gases, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B

The classification complies with : ATP 18

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