

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Trade name : No Frizz Instant De-Frizzer (EU)
Product code : AF-472
Vaporizer : Aerosol

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Intended for general public
Use of the substance/mixture : Cosmetics, personal care products

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Living Proof, Inc.
One Design Center Place
Suite 600
Boston, MA 02210
T: 617-621-1800 F: 617-621-1880
E: questions@livingproof.com

livingproof.com

Living Proof
Wiesenstr. 21, D-40549
Düsseldorf, Germany

1.4. Emergency telephone number

Emergency number : Chemtrec - +1-800-424-9300 or +1-703-527-3887

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

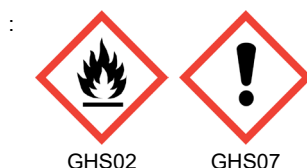
Aerosol, Category 1 H222;H229
Serious eye damage/eye irritation, Category 2 H319
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

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

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

: H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H319 - Causes serious eye irritation.

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Precautionary statements (CLP) : P102 - Keep out of reach of children.
P103 - Read carefully and follow all instructions.
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.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
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] |
|---|--|---------|---|
| dimethyl ether (Propellant gas (Aerosol)) substance with a Community workplace exposure limit | CAS-No.: 115-10-6 EC-No.: 204-065-8 EC Index-No.: 603-019-00-8 | 65 | Flam. Gas 1A, H220 Press. Gas |
| Ethyl alcohol | CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 | 10 - 20 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 |
| Nonane, 2,2,4,4,6,8,8-heptamethyl- | CAS-No.: 4390-04-9 EC-No.: 224-506-8;297-627-7 | 1 - 5 | Asp. Tox. 1, H304 |
| Heptane, 2,2,4,6,6-pentamethyl- | CAS-No.: 13475-82-6 EC-No.: 236-757-0 | 1 - 5 | Flam. Liq. 3, H226 Asp. Tox. 1, H304 |
| Distillates, petroleum, hydrotreated middle | CAS-No.: 64742-46-7 EC-No.: 265-148-2 EC Index-No.: 649-221-00-X | 0 - 1 | Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=4.6 mg/l/4h) Asp. Tox. 1, H304 |
| OLEYL ALCOHOL | CAS-No.: 143-28-2 EC-No.: 205-597-3 | 0 - 1 | Skin Irrit. 2, H315 |
| Citronellol | CAS-No.: 106-22-9 EC-No.: 203-375-0 | 0 - 0.1 | Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1B, H317 |

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

INGREDIENTS: Dimethyl Ether, Alcohol Denat., Isohexadecane, Isododecane, PPG-5-Ceteth-20, Propylene Glycol Dibenzoate, Diisopropyl Sebacate, C13-15 Alkane, Amaranthus Caudatus Seed Extract, Isopropyl Lauroyl Sarcosinate, Linoleamidopropyl Dimethylamine Dimer Dilinoleate, Diisostearyl Malate, Hippophae Rhamnoides Fruit Oil, Simmondsia Chinensis (Jojoba) Seed Oil, Citrullus Lanatus (Watermelon) Seed Oil, Orbignya Oleifera Seed Oil, Moringa Oleifera Seed Oil, Helianthus Annuus (Sunflower) Seed Oil, Oleyl Alcohol, Fragrance/Parfum, Citronellol, Citral, Linalool, Limonene, Geraniol, Coumarin.

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SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : If skin irritation occurs: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Get medical advice if skin irritation persists. |
| First-aid measures after eye contact | : In case of contact, immediately rinse eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. 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 | : Causes serious 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 | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|---|
| Fire hazard | : Extremely flammable aerosol. Cool closed containers exposed to fire with water spray. Heat may build pressure in tank and containers, rupturing closed vessels, spreading fire and increasing risk of burns and injuries. |
| Explosion hazard | : Contains gas under pressure; may explode if heated. |
| Hazardous decomposition products in case of fire | : Incomplete combustion may form carbon monoxide. |

5.3. Advice for firefighters

| | |
|---------------------------------------|---|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protective equipment for firefighters | : Do not enter fire area without proper protective equipment, including respiratory protection. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|--|
| General measures | : Eliminate all ignition sources if safe to do so. |
|------------------|--|

6.1.1. For non-emergency personnel

| | |
|----------------------|-----------------------------------|
| Emergency procedures | : Evacuate unnecessary personnel. |
|----------------------|-----------------------------------|

6.1.2. For emergency responders

| | |
|----------------------|--|
| Protective equipment | : Equip cleanup crew with proper protection. |
| Emergency procedures | : Ventilate area. |

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

| | |
|-----------------|---------------------|
| For containment | : Collect spillage. |
|-----------------|---------------------|

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| | |
|-------------------------|---|
| Methods for cleaning up | : Wipe up remaining liquid with absorbent material (for example cloth). Take precautionary measures against static discharge. |
| Other information | : This material and its container must be disposed of in a safe way, and as per local legislation. |

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-----------------------------------|---|
| Additional hazards when processed | : Container remains hazardous when empty. Continue to observe all precautions. |
| Precautions for safe handling | : Use only in well ventilated areas. Avoid contact with eyes. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. |
| Hygiene measures | : Do not smoke while handling product. Wash hands thoroughly after handling. Use good personal hygiene practices. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|------------------------|---|
| Storage conditions | : Aerosol Storage level 2. Keep cool. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. |
| Incompatible materials | : Strong oxidizing agents. |

7.3. Specific end use(s)

Refer to section 1. SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| dimethyl ether (115-10-6) | |
|--|------------------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Dimethylether |
| IOEL TWA | 1920 mg/m³ |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |
| Austria - Occupational Exposure Limits | |
| Local name | Dimethylether |
| MAK (OEL TWA) | 1910 mg/m³ |
| MAK (OEL TWA) [ppm] | 1000 ppm |
| MAK (OEL STEL) | 3820 mg/m³ (3x 60(Mow) min) |
| MAK (OEL STEL) [ppm] | 2000 ppm (3x 60(Mow) min) |
| OEL C | 3820 mg/m³ |
| OEL C [ppm] | 2000 ppm |
| Regulatory reference | BGBI. II Nr. 238/2018 |
| Belgium - Occupational Exposure Limits | |
| Local name | Oxyde de diméthyle # Dimethylether |
| OEL TWA | 1920 mg/m³ |

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| dimethyl ether (115-10-6) | |
|---|---|
| OEL TWA [ppm] | 1000 ppm |
| Regulatory reference | Koninklijk besluit/Arrêté royal 11/05/2021 |
| Bulgaria - Occupational Exposure Limits | |
| Local name | Диметилетер |
| OEL TWA | 1920 mg/m ³ |
| OEL TWA [ppm] | 1000 ppm |
| Remark | • (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност) |
| Regulatory reference | Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.) |
| Croatia - Occupational Exposure Limits | |
| Local name | Dimetil-eter |
| GVI (OEL TWA) [1] | 1920 mg/m ³ |
| GVI (OEL TWA) [2] | 1000 ppm |
| Remark | Direktiva: 2000/39/EZ |
| Regulatory reference | Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021) |
| Czech Republic - Occupational Exposure Limits | |
| Local name | Dimethylether |
| PEL (OEL TWA) | 1000 mg/m ³ |
| PEL (OEL TWA) [ppm] | 522 ppm |
| NPK-P (OEL C) | 2000 mg/m ³ |
| NPK-P (OEL C) [ppm] | 1044 ppm |
| Regulatory reference | Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.) |
| Denmark - Occupational Exposure Limits | |
| Local name | Dimethylether |
| OEL TWA [1] | 1920 mg/m ³ |
| OEL TWA [2] | 1000 ppm |
| Remark | E (betyder, at stoffet har en EF-grænseværdi) |
| Regulatory reference | BEK nr 1054 af 28/06/2022 |
| Estonia - Occupational Exposure Limits | |
| Local name | Dimetüüleeter |
| OEL TWA | 1920 mg/m ³ |
| OEL TWA [ppm] | 1000 ppm |
| Regulatory reference | Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 15.05.2021, 1) |
| Finland - Occupational Exposure Limits | |
| Local name | Dimetyylieetteri |
| HTP (OEL TWA) [1] | 2000 mg/m ³ |
| HTP (OEL TWA) [2] | 1000 ppm |

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| dimethyl ether (115-10-6) | |
|---|--|
| Regulatory reference | HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö) |
| France - Occupational Exposure Limits | |
| Local name | Oxyde de diméthyle |
| VME (OEL TWA) | 1920 mg/m³ |
| VME (OEL TWA) [ppm] | 1000 ppm |
| Remark | Valeurs réglementaires indicatives |
| Regulatory reference | Arrêté du 30 juin 2004 modifié (réf.: INRS ED 984, 2016) |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| Local name | Dimethylether |
| AGW (OEL TWA) [1] | 1900 mg/m³ |
| AGW (OEL TWA) [2] | 1000 ppm |
| Peak exposure limitation factor | 8(II) |
| Remark | DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich) |
| Regulatory reference | TRGS900 |
| Gibraltar - Occupational Exposure Limits | |
| Local name | Dimethylether |
| OEL TWA | 1920 mg/m³ |
| OEL TWA [ppm] | 1000 ppm |
| Regulatory reference | Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181) |
| Greece - Occupational Exposure Limits | |
| Local name | Διμεθυλαιθέρας |
| OEL TWA | 1920 mg/m³ |
| OEL TWA [ppm] | 1000 ppm |
| Regulatory reference | Π.Δ. 339/2001 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους |
| Hungary - Occupational Exposure Limits | |
| Local name | DIMETIL-ÉTER |
| AK (OEL TWA) | 1920 mg/m³ |
| CK (OEL STEL) | 7680 mg/m³ |
| Remark | EU1 (2000/39/EK irányelvben közölt érték); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok) |
| Regulatory reference | 5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről |
| Ireland - Occupational Exposure Limits | |
| Local name | Dimethyl ether |
| OEL TWA [1] | 1920 mg/m³ |
| OEL TWA [2] | 1000 ppm |
| Remark | IOELV (Indicative Occupational Exposure Limit Values) |
| Regulatory reference | Chemical Agents Code of Practice 2021 |

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| dimethyl ether (115-10-6) | |
|--|---|
| Italy - Occupational Exposure Limits | |
| Local name | Etere dimetilico |
| OEL TWA | 1920 mg/m ³ |
| OEL TWA [ppm] | 1000 ppm |
| Regulatory reference | Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i. |
| Latvia - Occupational Exposure Limits | |
| Local name | Dimetilēteris |
| OEL TWA | 1920 mg/m ³ |
| OEL TWA [ppm] | 1000 ppm |
| Regulatory reference | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 |
| Lithuania - Occupational Exposure Limits | |
| Local name | Dimetileteris |
| IPRV (OEL TWA) | 1920 mg/m ³ |
| IPRV (OEL TWA) [ppm] | 1000 ppm |
| TPRV (OEL STEL) | 2280 mg/m ³ |
| TPRV (OEL STEL) [ppm] | 1500 ppm |
| Regulatory reference | LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12) |
| Luxembourg - Occupational Exposure Limits | |
| Local name | Oxyde de diméthyle |
| OEL TWA | 1920 mg/m ³ |
| OEL TWA [ppm] | 1000 ppm |
| Regulatory reference | Mémorial A N° 226 de 2021 concernant la protection de la sécurité et de la santé des salariés contre les risques liés à des agents chimiques sur le lieu de travail |
| Malta - Occupational Exposure Limits | |
| Local name | Dimethylether |
| OEL TWA | 1920 mg/m ³ |
| OEL TWA [ppm] | 1000 ppm |
| Regulatory reference | S.L.424.24 - Chemical Agents at Work Regulations (L.N.356 of 2021) |
| Netherlands - Occupational Exposure Limits | |
| Local name | Dimethylether |
| TGG-8u (OEL TWA) | 950 mg/m ³ |
| TGG-15min (OEL STEL) | 1500 mg/m ³ |
| Regulatory reference | Arbeidsomstandighedenregeling 2022 |
| Poland - Occupational Exposure Limits | |
| Local name | Eter dimetylowy |
| NDS (OEL TWA) | 1000 mg/m ³ |
| Regulatory reference | Dz. U. 2018 poz. 1286 |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 1920 mg/m ³ |

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| dimethyl ether (115-10-6) | |
|---|--|
| OEL TWA [ppm] | 1000 ppm |
| Romania - Occupational Exposure Limits | |
| Local name | Dimetil eter/Oxid de dimetil |
| OEL TWA | 1920 mg/m ³ |
| OEL TWA [ppm] | 1000 ppm |
| Regulatory reference | Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021) |
| Slovakia - Occupational Exposure Limits | |
| Local name | Dimetyléter |
| NPHV (OEL TWA) [1] | 1920 mg/m ³ |
| NPHV (OEL TWA) [2] | 1000 ppm |
| Regulatory reference | Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.) |
| Slovenia - Occupational Exposure Limits | |
| Local name | dimetileter |
| OEL TWA | 1920 mg/m ³ |
| OEL TWA [ppm] | 1000 ppm |
| OEL STEL | 15360 mg/m ³ |
| OEL STEL [ppm] | 8000 ppm |
| Remark | EU |
| Regulatory reference | Uradni list RS, št. 72/2021 z dne 11.5.2021 |
| Spain - Occupational Exposure Limits | |
| Local name | Metiléter |
| VLA-ED (OEL TWA) [1] | 1920 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 1000 ppm |
| Remark | VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo). |
| Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT |
| Sweden - Occupational Exposure Limits | |
| Local name | Dimetyleter |
| NGV (OEL TWA) | 950 mg/m ³ |
| NGV (OEL TWA) [ppm] | 500 ppm |
| KTV (OEL STEL) | 1500 mg/m ³ |
| KTV (OEL STEL) [ppm] | 800 ppm |
| Remark | V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas) |
| Regulatory reference | Hygieniska gränsvärden (AFS 2018:1) |
| Iceland - Occupational Exposure Limits | |
| Local name | Dímetýleter |
| OEL TWA | 1885 mg/m ³ |
| OEL TWA [ppm] | 1000 ppm |
| Regulatory reference | Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009) |

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| dimethyl ether (115-10-6) | |
|---|---|
| Norway - Occupational Exposure Limits | |
| Local name | Dimetyleter |
| Grenseverdi (OEL TWA) [1] | 384 mg/m³ |
| Grenseverdi (OEL TWA) [2] | 200 ppm |
| Remark | E: EU har en veiledende grenseverdi og/eller anmerkning for stoffet. |
| Regulatory reference | FOR-2021-06-28-2248 |
| Ethyl alcohol (64-17-5) | |
| Austria - Occupational Exposure Limits | |
| Local name | Ethanol (Ethylalkohol) |
| MAK (OEL TWA) | 1900 mg/m³ |
| MAK (OEL TWA) [ppm] | 1000 ppm |
| MAK (OEL STEL) | 3800 mg/m³ (3x 60(Mow) min) |
| MAK (OEL STEL) [ppm] | 2000 ppm (3x 60(Mow) min) |
| OEL C | 3800 mg/m³ |
| OEL C [ppm] | 2000 ppm |
| Regulatory reference | BGBl. II Nr. 156/2021 |
| Belgium - Occupational Exposure Limits | |
| Local name | Alcool éthylique # Ethanol |
| OEL TWA | 1907 mg/m³ |
| OEL TWA [ppm] | 1000 ppm |
| Regulatory reference | Koninklijk besluit/Arrêté royal 11/05/2021 |
| Bulgaria - Occupational Exposure Limits | |
| Local name | Етилов алкохол |
| OEL TWA | 1000 mg/m³ |
| Regulatory reference | Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.) |
| Croatia - Occupational Exposure Limits | |
| Local name | Etanol; etil-alkohol |
| GVI (OEL TWA) [1] | 1900 mg/m³ |
| GVI (OEL TWA) [2] | 1000 ppm |
| Regulatory reference | Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021) |
| Czech Republic - Occupational Exposure Limits | |
| Local name | Ethanol (Ethylalkohol) |
| PEL (OEL TWA) | 1000 mg/m³ |
| PEL (OEL TWA) [ppm] | 522 ppm |
| NPK-P (OEL C) | 3000 mg/m³ |
| NPK-P (OEL C) [ppm] | 1566 ppm |
| Regulatory reference | Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.) |

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| Ethyl alcohol (64-17-5) | |
|---|--|
| Denmark - Occupational Exposure Limits | |
| Local name | Ethanol (Ethylalkohol) |
| OEL TWA [1] | 1900 mg/m ³ |
| OEL TWA [2] | 1000 ppm |
| Regulatory reference | BEK nr 1054 af 28/06/2022 |
| Estonia - Occupational Exposure Limits | |
| Local name | Etanool (etüülalkohol) |
| OEL TWA | 1000 mg/m ³ |
| OEL TWA [ppm] | 500 ppm |
| OEL STEL | 1900 mg/m ³ |
| OEL STEL [ppm] | 1000 ppm |
| Regulatory reference | Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 15.05.2021, 1) |
| Finland - Occupational Exposure Limits | |
| Local name | Etanoli |
| HTP (OEL TWA) [1] | 1900 mg/m ³ |
| HTP (OEL TWA) [2] | 1000 ppm |
| HTP (OEL STEL) | 2500 mg/m ³ |
| HTP (OEL STEL) [ppm] | 1300 ppm |
| Regulatory reference | HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö) |
| France - Occupational Exposure Limits | |
| Local name | Alcool éthylique |
| VME (OEL TWA) | 1900 mg/m ³ |
| VME (OEL TWA) [ppm] | 1000 ppm |
| VLE (OEL C/STEL) | 9500 mg/m ³ |
| VLE (OEL C/STEL) [ppm] | 5000 ppm |
| Remark | Valeurs recommandées/admises |
| Regulatory reference | Circulaire du Ministère du travail (réf.: INRS ED 984, 2016) |
| 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 |
| Greece - Occupational Exposure Limits | |
| Local name | Αιθνόλη |
| OEL TWA | 1900 mg/m ³ |

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| Ethyl alcohol (64-17-5) | |
|--|---|
| OEL TWA [ppm] | 1000 ppm |
| Regulatory reference | Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους |
| Hungary - Occupational Exposure Limits | |
| Local name | ETIL-ALKOHOL |
| AK (OEL TWA) | 1900 mg/m³ |
| CK (OEL STEL) | 3800 mg/m³ |
| Remark | N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok) |
| Regulatory reference | 5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről |
| Ireland - Occupational Exposure Limits | |
| Local name | Ethanol [Ethyl alcohol] |
| OEL TWA [1] | 1900 mg/m³ |
| OEL TWA [2] | 1000 ppm |
| OEL STEL [ppm] | 1000 ppm |
| Regulatory reference | Chemical Agents Code of Practice 2021 |
| Latvia - Occupational Exposure Limits | |
| Local name | Etilspirts (etanols) |
| OEL TWA | 1000 mg/m³ |
| Regulatory reference | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 |
| Lithuania - Occupational Exposure Limits | |
| Local name | Etanolis (etilo alkoholis) |
| IPRV (OEL TWA) | 1000 mg/m³ |
| IPRV (OEL TWA) [ppm] | 500 ppm |
| TPRV (OEL STEL) | 1900 mg/m³ |
| TPRV (OEL STEL) [ppm] | 1000 ppm |
| Regulatory reference | LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12) |
| Netherlands - Occupational Exposure Limits | |
| Local name | Ethanol |
| TGG-8u (OEL TWA) | 260 mg/m³ |
| TGG-15min (OEL STEL) | 1900 mg/m³ |
| Remark | Kankerverwekkende stof. H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een H-aanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen. |
| MAC chemical category | Skin notation |
| Regulatory reference | Arbeidsomstandighedenregeling 2022 |
| Poland - Occupational Exposure Limits | |
| Local name | Etanol (alkohol etylowy) |
| NDS (OEL TWA) | 1900 mg/m³ |

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| Ethyl alcohol (64-17-5) | |
|---|--|
| Regulatory reference | Dz. U. 2018 poz. 1286 |
| Portugal - Occupational Exposure Limits | |
| Local name | Etanol (Álcool etílico) |
| OEL TWA [ppm] | 1000 ppm |
| OEL STEL [ppm] | 1000 ppm |
| OEL chemical category | A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans |
| Remark | A3 (Agente carcinogénico confirmado nos animais de laboratório con relevância desconhecida no Homem) |
| Regulatory reference | Norma Portuguesa NP 1796:2014 |
| Romania - Occupational Exposure Limits | |
| Local name | Alcool etilic/Etanol |
| OEL TWA | 1900 mg/m ³ |
| OEL TWA [ppm] | 1000 ppm |
| OEL STEL | 9500 mg/m ³ |
| OEL STEL [ppm] | 5000 ppm |
| Regulatory reference | Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021) |
| Slovakia - Occupational Exposure Limits | |
| Local name | Etylalkohol (etanol) |
| NPHV (OEL TWA) [1] | 960 mg/m ³ |
| NPHV (OEL TWA) [2] | 500 ppm |
| NPHV (OEL STEL) | 1920 mg/m ³ |
| NPHV (OEL STEL) [ppm] | 1000 ppm |
| NPHV (OEL C) | 1920 mg/m ³ |
| Regulatory reference | Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.) |
| Slovenia - Occupational Exposure Limits | |
| Local name | etanol (etilalkohol) |
| OEL TWA | 960 mg/m ³ |
| OEL TWA [ppm] | 500 ppm |
| OEL STEL | 1920 mg/m ³ |
| OEL STEL [ppm] | 1000 ppm |
| Remark | Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti) |
| Regulatory reference | Uradni list RS, št. 72/2021 z dne 11.5.2021 |
| Spain - Occupational Exposure Limits | |
| Local name | Etanol (Alcohol etílico) |
| VLA-ED (OEL TWA) [1] | 1910 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 1000 ppm |
| VLA-EC (OEL STEL) | 1910 mg/m ³ |
| VLA-EC (OEL STEL) [ppm] | 1000 ppm |

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| Ethyl alcohol (64-17-5) | |
|--|--|
| Remark | s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf). |
| Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT |
| Sweden - Occupational Exposure Limits | |
| Local name | Etanol |
| NGV (OEL TWA) | 1000 mg/m³ |
| NGV (OEL TWA) [ppm] | 500 ppm |
| KTV (OEL STEL) | 1900 mg/m³ |
| KTV (OEL STEL) [ppm] | 1000 ppm |
| Remark | V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas) |
| Regulatory reference | Hygieniska gränsvärden (AFS 2018:1) |
| Iceland - Occupational Exposure Limits | |
| Local name | Etanól (etýlalkóhól) |
| OEL TWA | 1900 mg/m³ |
| OEL TWA [ppm] | 1000 ppm |
| Regulatory reference | Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009) |
| Norway - Occupational Exposure Limits | |
| Local name | Etanol |
| Grenseverdi (OEL TWA) [1] | 950 mg/m³ |
| Grenseverdi (OEL TWA) [2] | 500 ppm |
| Kortidsverdi (OEL STEL) | 1187.5 mg/m³ (value calculated) |
| Kortidsverdi (OEL STEL) [ppm] | 625 ppm (value calculated) |
| Regulatory reference | FOR-2021-06-28-2248 |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Ethanol |
| ACGIH OEL STEL [ppm] | 1000 ppm |
| Remark (ACGIH) | TLV® Basis: URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans) |
| ACGIH chemical category | Confirmed Animal Carcinogen with Unknown Relevance to Humans |
| Regulatory reference | ACGIH 2022 |
| Citral (5392-40-5) | |
| Belgium - Occupational Exposure Limits | |
| Local name | Citral (vapeur et aérosol) # Citral (damp en aérosol) |
| OEL TWA | 32 mg/m³ |
| OEL TWA [ppm] | 5 ppm |

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| Citral (5392-40-5) | |
|--|---|
| Remark | D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht. |
| OEL chemical category | Skin |
| Regulatory reference | Koninklijk besluit/Arrêté royal 11/05/2021 |
| Ireland - Occupational Exposure Limits | |
| Local name | Citral |
| OEL TWA [2] | 5 ppm |
| OEL STEL [ppm] | 15 ppm (calculated) |
| Regulatory reference | Chemical Agents Code of Practice 2021 |
| Poland - Occupational Exposure Limits | |
| Local name | 3,7-Dimetylookta-2,6-dienal (cytral) |
| NDS (OEL TWA) | 27 mg/m³ |
| NDSch (OEL STEL) | 54 mg/m³ |
| Regulatory reference | Dz. U. 2018 poz. 1286 |
| Portugal - Occupational Exposure Limits | |
| OEL TWA [ppm] | 5 ppm |
| OEL chemical category | Sensitizer, A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure |
| Spain - Occupational Exposure Limits | |
| Local name | Citral |
| VLA-ED (OEL TWA) [2] | 5 ppm (inhalable fraction and vapor) |
| Remark | Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), Sen (Sensibilizante), FIV (Fracción inhalable y vapor. La notación FIV señala a aquellos agentes químicos que se pueden presentar en el ambiente de trabajo, tanto en forma de materia particulada como vapor, por lo que las dos fases pueden coexistir, contribuyendo ambas a la exposición. Esta situación se puede dar, principalmente, en los siguientes casos: • Cuando el agente en cuestión tiene un valor "intermedio" de presión de vapor (en estos casos se tiene en cuenta la relación entre su concentración en el aire saturado de vapor y el valor del VLA-ED® y la nota se asigna, generalmente, cuando el cociente entre ambas cantidades se encuentra entre 0.1 y 10). • Por razón de la forma de uso del agente químico (por ejemplo, pulverización). • En los procesos que conlleven cambios importantes de temperatura que puedan afectar al estado físico del agente químico. • En los procesos en los que una fracción significativa del vapor puede disolverse o adsorberse en las partículas de otra sustancia, a semejanza de lo que ocurre con los agentes solubles en agua en ambientes con humedad elevada). |
| OEL chemical category | Sensitizer, skin - potential for cutaneous absorption |
| Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Citral |
| ACGIH OEL TWA [ppm] | 5 ppm (inhalable fraction and vapor) |

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| | |
|--|--|
| Citral (5392-40-5) | |
| Remark (ACGIH) | TLV® Basis: Body weight eff; URT irr; eye dam. Notations: Skin; DSEN; A4 (Not classifiable as a Human Carcinogen) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer |
| Regulatory reference | ACGIH 2022 |
| D-Limonene (5989-27-5) | |
| Finland - Occupational Exposure Limits | |
| Local name | D-Limoneeni |
| HTP (OEL TWA) [1] | 140 mg/m ³ |
| HTP (OEL TWA) [2] | 25 ppm |
| HTP (OEL STEL) | 280 mg/m ³ |
| HTP (OEL STEL) [ppm] | 50 ppm |
| Regulatory reference | HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö) |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| Local name | (R)-p-Mentha-1,8-dien (D-Limonen) |
| AGW (OEL TWA) [1] | 28 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| AGW (OEL TWA) [2] | 5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Peak exposure limitation factor | 4(II) |
| Remark | DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); H - hautresorptiv; Sh - Hautsensibilisierender Stoff; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden |
| Chemical category | Skin notation, Skin sensitization |
| Regulatory reference | TRGS900 |
| Slovenia - Occupational Exposure Limits | |
| Local name | (R)-p-menta-1,8-dien (D-limonen) |
| OEL TWA | 28 mg/m ³ |
| OEL TWA [ppm] | 5 ppm |
| OEL STEL | 112 mg/m ³ |
| OEL STEL [ppm] | 20 ppm |
| Remark | K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti) |
| OEL chemical category | Potential for cutaneous absorption |
| Regulatory reference | Uradni list RS, št. 72/2021 z dne 11.5.2021 |
| Spain - Occupational Exposure Limits | |
| Local name | d-Limoneno |
| VLA-ED (OEL TWA) [1] | 168 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 30 ppm |

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| D-Limonene (5989-27-5) | |
|---------------------------------------|---|
| Remark | Sen (Sensibilizante), vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante). |
| OEL chemical category | Sensitizer, skin - potential for cutaneous absorption |
| Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT |
| Norway - Occupational Exposure Limits | |
| Local name | d-limonen (Limonen) |
| Grenseverdi (OEL TWA) [1] | 140 mg/m ³ |
| Grenseverdi (OEL TWA) [2] | 25 ppm |
| Korttidsverdi (OEL STEL) | 175 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 37.5 ppm (value calculated) |
| Remark | A: Kjemikalier som skal betraktes som at de fremkaller allergi eller annen overfølsomhet i øynene eller luftveier, eller som skal betraktes som at de fremkaller allergi ved hudkontakt. |
| OEL chemical category | Allergenic substance |
| Regulatory reference | FOR-2021-06-28-2248 |

8.1.2. Recommended monitoring procedures

| Monitoring methods | |
|--------------------|--------------------------------------|
| Monitoring methods | No additional information available. |

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Good standard of general ventilation.

8.2.2. Personal protection equipment

Personal protective equipment:

Not required for normal conditions of use. Normal use of this product shall imply use in accordance with the instructions on the packaging.

8.2.2.1. Eye and face protection

Eye protection:

If there is a risk of eye contact: Use suitable eye protection

8.2.2.2. Skin protection

Hand protection:

Not required for normal conditions of use. Normal use of this product shall imply use in accordance with the instructions on the packaging

8.2.2.3. Respiratory protection

Respiratory protection:

Not required for normal conditions of use. Normal use of this product shall imply use in accordance with the instructions on the packaging

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8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--------------------------------|
| Physical state | : Liquid |
| Colour | : Slightly yellow tint. |
| Appearance | : Transparent. |
| Odour | : Characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not available |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Extremely flammable aerosol. |
| Explosive limits | : Not available |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : 15 °C |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : Not available |
| Viscosity, kinematic | : Not available |
| Solubility | : Not available |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : 55 – 80 psi @ 21 °C |
| Vapour pressure at 50°C | : Not available |
| Density | : 0.76 – 0.84 @ 25 °C |
| Relative density | : Not available |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

% of flammable ingredients : 87 %

9.2.2. Other safety characteristics

Gas group : Press. Gas (Liq.)

SECTION 10: Stability and reactivity

10.1. Reactivity

Heating will cause a rise in pressure with a risk of bursting.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

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10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition. Avoid static electricity discharges. Keep out of direct sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

10.5. Incompatible materials

Strong oxidizing agents.

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)

Ethyl alcohol (64-17-5)

| | |
|-----------------------------------|------------------------|
| LD50 oral rat | 7060 mg/kg |
| LD50 oral | 10470 mg/kg bodyweight |
| LD50 dermal | 15800 mg/kg bodyweight |
| LC50 Inhalation - Rat | 133.8 mg/l/4h |
| LC50 Inhalation - Rat (Dust/Mist) | > 99999 mg/l |
| ATE CLP (vapours) | 124.7 mg/l/4h |
| ATE CLP (dust,mist) | 124.7 mg/l/4h |

Nonane, 2,2,4,4,6,8,8-heptamethyl- (4390-04-9)

| | |
|-----------------------|---|
| LD50 dermal rabbit | > 3160 mg/kg |
| LC50 Inhalation - Rat | > 5266 mg/m ³ (Exposure time: 4 h) |

Heptane, 2,2,4,6,6-pentamethyl- (13475-82-6)

| | |
|-----------------------|---|
| LD50 dermal rabbit | > 5000 mg/kg |
| LC50 Inhalation - Rat | > 4951 mg/m ³ (Exposure time: 4 h) |

Distillates, petroleum, hydrotreated middle (64742-46-7)

| | |
|-----------------------|--------------|
| LD50 oral rat | 7400 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 Inhalation - Rat | 4.6 mg/l/4h |
| ATE CLP (vapours) | 4.6 mg/l/4h |
| ATE CLP (dust,mist) | 4.6 mg/l/4h |

Citronellol (106-22-9)

| | |
|-------------|-----------------------|
| LD50 oral | 3450 mg/kg bodyweight |
| LD50 dermal | 2650 mg/kg bodyweight |

Skin corrosion/irritation : Not classified (On basis of test data)
Serious eye damage/irritation : Causes serious eye irritation (On basis of test data)
Respiratory or skin sensitisation : Not classified (On basis of test data)
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)

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| | |
|------------------------|---|
| Reproductive toxicity | : Not classified (Based on available data, the classification criteria are not met) |
| 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) |

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) |

Citronellol (106-22-9)

| | |
|--|--|
| NOAEL (oral, rat, 90 days) | 2000 mg/kg bodyweight Animal: rat, Guideline: other: Specifications for the Conduct of Studies to Evaluate the Toxic and Carcinogenic Potential of Chemical, Biological, and Physical Agents in Laboratory Animals for the National Toxicology Program (NTP) |
| 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) |

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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

| | |
|--|---------------------------------------|
| Adverse health effects caused by endocrine disrupting properties | : No additional information available |
|--|---------------------------------------|

11.2.2. Other information

| | |
|-------------------|---|
| Other information | : Historical Data, not tested on Animals for cosmetics. Likely routes of exposure: ingestion, inhalation, skin and eye |
|-------------------|---|

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|---|
| Ecology - general | : Historical Data, not tested on Animals for cosmetics. |
| 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) |

dimethyl ether (115-10-6)

| | |
|-----------------|--|
| LC50 - Fish [1] | > 4.1 g/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static]) |
|-----------------|--|

Ethyl alcohol (64-17-5)

| | |
|------------------------------------|--|
| LC50 - Fish [1] | 12 – 16 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |
| LC50 - Fish [2] | > 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| LC50 - Other aquatic organisms [1] | 5012 mg/l 48 hours- daphnia |
| EC50 - Crustacea [1] | 9268 – 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 - Crustacea [2] | 2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| EC50 - Other aquatic organisms [1] | 5012 mg/l waterflea |
| EC50 - Other aquatic organisms [2] | 275 mg/l |

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| Ethyl alcohol (64-17-5) | |
|----------------------------|--|
| EC50 96h - Algae [1] | ≈ 22000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| ErC50 algae | 275 mg/l Source: ECHA |
| ErC50 other aquatic plants | 4432 mg/l |
| NOEC (acute) | 9.6 mg/l Daphnia magna |
| NOEC (chronic) | 9.6 mg/l Test organisms (species): Daphnia magna Duration: '9 d' |
| NOEC chronic crustacea | 9.6 mg/l |

| Heptane, 2,2,4,6,6-pentamethyl- (13475-82-6) | |
|--|--|
| LC50 - Fish [1] | > 2.8 mg/l (Exposure time: 96 h - Species: Danio rerio [static]) |

| Distillates, petroleum, hydrotreated middle (64742-46-7) | |
|--|---|
| LC50 - Fish [1] | 35 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| LC50 - Fish [2] | > 10000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |

| 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): |
| EC50 96h - Algae [1] | 3.231 mg/l Source: Ecological Structure Activity Relationships |

12.2. Persistence and degradability

| No Frizz Instant De-Frizzer (EU) | |
|----------------------------------|------------------|
| Persistence and degradability | Not established. |

12.3. Bioaccumulative potential

| No Frizz Instant De-Frizzer (EU) | |
|----------------------------------|------------------|
| Bioaccumulative potential | Not established. |

| Ethyl alcohol (64-17-5) | |
|---|-----------------------------|
| Partition coefficient n-octanol/water (Log Pow) | -0.35 (at 24 °C (at pH 7.4) |
| Citronellol (106-22-9) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.1 |

12.4. Mobility in soil

| Citronellol (106-22-9) | |
|------------------------|--|
| Mobility in soil | 70.79 Source: Quantitative Structure Activity Relation |

12.5. Results of PBT and vPvB assessment

| No Frizz Instant De-Frizzer (EU) | |
|--|--|
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII | |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII | |

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12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : No information available.

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

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 (LTD QTY), (D) | UN 1950 AEROSOLS, 2.1 (LTD QTY) | UN 1950 Aerosols, flammable, 2.1 (LTD QTY) | UN 1950 AEROSOLS, 2.1 (LTD QTY) | UN 1950 AEROSOLS, 2.1 (LTD QTY) |
| 14.3. Transport hazard class(es) | | | | |
| 2.1 (LTD QTY) | 2.1 (LTD QTY) | 2.1 (LTD QTY) | 2.1 (LTD QTY) | 2.1 (LTD QTY) |
| | | | | |
| 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 |

Consult the associated transport regulations for available and applicable exceptions or exemptions.

The suitable shipping classification must be evaluated at the time of shipment due to the possibility for variations in regards to the transportation of this material considering the requirements, modes of transport, packaging, packaging configuration, quantity etc. Please consult the appropriate regulation for specific shipping information and requirements.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation information can be obtained through the authorized transporting corporation. It is the responsibility of the transporting corporation to follow all applicable laws, regulations and rules relating to the transportation of this product.

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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 |
| Special packing provisions (ADR) | : PP87, RR6, L2 |
| Mixed packing provisions (ADR) | : MP9 |
| Transport category (ADR) | : 2 |
| Special provisions for carriage - Packages (ADR) | : V14 |
| 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 |

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Hazard identification number (RID) : 23

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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

France

| Occupational diseases | |
|-----------------------|---|
| Code | Description |
| RG 84 | Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide |

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).
WGK Remark : Most stringent classification due to insufficient data
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Ethyl alcohol, Distillates, petroleum, hydrotreated middle are listed
SZW-lijst van mutagene stoffen : Distillates, petroleum, hydrotreated middle is listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : Ethyl alcohol is listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : Ethyl alcohol is listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : Ethyl alcohol is listed

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Denmark

| | |
|-----------------------------|---|
| Class for fire hazard | : Class I-1 |
| Store unit | : 1 liter |
| Classification remarks | : F <Aerosol 1>; Emergency management guidelines for the storage of flammable liquids must be followed |
| Danish National Regulations | : Young people under 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with it |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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 |
| 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 | Effective concentration for 50 percent of test population (median effective concentration) |
| EN | European Standard |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Lethal concentration for 50 percent of test population (median lethal concentration) |
| LD50 | Lethal dose for 50 percent of test population (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 | Regulation concerning the International Carriage of Dangerous Goods by Railways |
| SDS | Safety Data Sheet |
| ThOD | Theoretical oxygen demand (ThOD) |
| CAS-No. | Chemical Abstract Service number |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

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| | |
|---------------------|--|
| Sources of Key data | : Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (et sequens). |
| Other information | : None. |

| Full text of H- and EUH-statements: | |
|--|--|
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Gas 1A | Flammable gases, Category 1A |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H229 | Pressurised container: May burst if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| Press. Gas | Gases under pressure |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1B | Skin sensitisation, category 1B |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: | | |
|---|-----------|-----------------------|
| Aerosol 1 | H222;H229 | On basis of test data |
| Eye Irrit. 2 | H319 | Expert judgment |

Safety Data Sheet (SDS), EU

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