

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

Product form : Mixture
Trade name : PhD Advanced Clean Dry Shampoo
Type of product : 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

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Living Proof Fifth Floor, Union House 182-194 Union Street London SE1 0LH	Living Proof Wiesenstr. 21, D-40549 Düsseldorf, Germany
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Manufacturer:

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

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
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Extremely flammable aerosol. Pressurised container: May burst if heated.

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

Hazard pictograms (CLP) :



GHS02

Signal word (CLP) : Danger
Hazard statements (CLP) : H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
Precautionary statements (CLP) : 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.

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P251 - Do not pierce or burn, even after use.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

2.3. Other hazards

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

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]
Ethyl alcohol	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5	8.07	Flam. Liq. 2, H225 Eye Irrit. 2, H319

INGREDIENTS: Isobutane, Propane, Alcohol Denat., Oryza Sativa (Rice) Starch, Cyclodextrin, Zea Mays (Corn) Starch, Furcellaria Lumbricalis Extract, Hydrated Silica, Hydroxypropyl Arginine Lauryl/Myristyl Ether HCl, Tetraselmis Suecica Extract, Isopropyl Lauroyl Sarcosinate, Cetrimonium Chloride, Glycerin, Mannitol, Polyvinyl Alcohol, Distearidimonium Hectorite, Water/Eau/Aqua, Fragrance/Parfum, Citronellyl Methylcrotonate, Linalool, Citronellol, Benzyl Salicylate, Citral, Limonene

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	: Allow affected person to breathe fresh air. Allow the victim to rest.
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.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Not expected to be a primary route of exposure.

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

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: None under normal use. May cause respiratory irritation.
Symptoms/effects after skin contact	: None under normal conditions.
Symptoms/effects after eye contact	: None under normal conditions. May cause slight temporary irritation.
Symptoms/effects after ingestion	: None under normal use.

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	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: None known.

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5.2. Special hazards arising from the substance or mixture

- | | |
|------------------|---|
| Fire hazard | : Extremely flammable aerosol. Cool closed containers exposed to fire with water spray. Contains gas under pressure; may explode if heated. |
| Explosion hazard | : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. |

5.3. Advice for firefighters

- | | |
|---------------------------------------|---|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment. |
| Protective equipment for firefighters | : Do not attempt to take action without suitable protective equipment. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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| General measures | : Eliminate every possible source of ignition. |
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6.1.1. For non-emergency personnel

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

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|-------------------------|--|
| For containment | : Collect spillage. |
| Methods for cleaning up | : 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

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|-------------------------------|---|
| Precautions for safe handling | : Avoid contact with eyes. Do not breathe vapours. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| Hygiene measures | : Do not eat, drink or smoke when using this product. |

7.2. Conditions for safe storage, including any incompatibilities

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|------------------------|--|
| Storage conditions | : 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. |
| Incompatible materials | : Strong oxidizing agents. |

7.3. Specific end use(s)

See Heading 1.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

isobutane (75-28-5)	
Austria - Occupational Exposure Limits	
Local name	Butan (beide Isomeren): Isobutan (R 600a)
MAK (OEL TWA)	1900 mg/m³
MAK (OEL TWA) [ppm]	800 ppm
MAK (OEL STEL)	3800 mg/m³ (3x 60(Mow) min)
MAK (OEL STEL) [ppm]	1600 ppm (3x 60(Mow) min)
Regulatory reference	BGBI. II Nr. 238/2018
Belgium - Occupational Exposure Limits	
Local name	Butane, tous isomères: iso-butane # Butaan, alle isomeren: iso-butaan
OEL STEL	2370 mg/m³
OEL STEL [ppm]	980 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020
Estonia - Occupational Exposure Limits	
Local name	Isobutaan (2-metüülpropaan)
OEL TWA	1900 mg/m³
OEL TWA [ppm]	800 ppm
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 17.10.2019, 2); Vabariigi Valitsuse 10. märtsi 2019. a määruse nr 84
Finland - Occupational Exposure Limits	
Local name	i-Butaani (2-Metyylipropaani)
HTP (OEL TWA) [1]	1900 mg/m³
HTP (OEL TWA) [2]	800 ppm
HTP (OEL STEL)	2400 mg/m³
HTP (OEL STEL) [ppm]	1000 ppm
Huomautus (FI)	Happea syrjäyttämällä tukahduttavat kaasut.
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
VME (OEL TWA)	1900 mg/m³
VME (OEL TWA) [ppm]	800 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Isobutan
AGW (OEL TWA) [1]	2400 mg/m³
AGW (OEL TWA) [2]	1000 ppm
Peak exposure limitation factor	4(II)
Remark	DFG
Regulatory reference	TRGS900

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isobutane (75-28-5)	
Ireland - Occupational Exposure Limits	
Local name	Butane, all isomers: Isobutane
OEL STEL [ppm]	1000 ppm
Regulatory reference	Chemical Agents Code of Practice 2020
Portugal - Occupational Exposure Limits	
Local name	Butano, todos os isómeros
OEL STEL [ppm]	1000 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Bután s obsahom $\geq 0,1\%$ butadiénu (izo-bután)
NPHV (OEL TWA) [1]	2400 mg/m ³ (TSH)
NPHV (OEL TWA) [2]	1000 ppm (TSH)
Upozornenie (SK)	Kategória karcinogénov 1A – Dokázaný karcinogén pre ľudí
Regulatory reference	Nariadenie vlády č. 356/2006 Z. z. (235/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	izobutan
OEL TWA	2400 mg/m ³
OEL TWA [ppm]	1000 ppm
OEL STEL	9600 mg/m ³
OEL STEL [ppm]	4000 ppm
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
USA - ACGIH - Occupational Exposure Limits	
Local name	Isobutane
ACGIH OEL TWA [ppm]	1000 ppm
ACGIH OEL STEL [ppm]	1000 ppm (EX - Explosion hazard)
Remark (ACGIH)	TLV® Basis: CNS impair
Regulatory reference	ACGIH 2021
Ethyl alcohol (64-17-5)	
Austria - Occupational Exposure Limits	
Local name	Ethanol
MAK (OEL TWA)	1900 mg/m ³
MAK (OEL TWA) [ppm]	1000 ppm
MAK (OEL STEL)	3800 mg/m ³ (3x 60(Mow) min)
MAK (OEL STEL) [ppm]	2000 ppm (3x 60(Mow) min)
OEL C	3800 mg/m ³
OEL C [ppm]	2000 ppm
Regulatory reference	BGBl. II Nr. 238/2018
Belgium - Occupational Exposure Limits	
Local name	Alcool éthylique # Ethanol

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Ethyl alcohol (64-17-5)	
OEL TWA	1907 mg/m ³
OEL TWA [ppm]	1000 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020
Bulgaria - Occupational Exposure Limits	
Local name	Етилов алкохол
OEL TWA	1000 mg/m ³
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.5 от 17 Януари 2020 г.)
Croatia - Occupational Exposure Limits	
Local name	Etanol; etil-alkohol
GVI (OEL TWA) [1]	1900 mg/m ³
GVI (OEL TWA) [2]	1000 ppm
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 91/2018)
Czech Republic - Occupational Exposure Limits	
Local name	Ethanol (Ethylalkohol)
PEL (OEL TWA)	1000 mg/m ³
PEL (OEL TWA) [ppm]	522 ppm
NPK-P (OEL C)	3000 mg/m ³
NPK-P (OEL C) [ppm]	1566 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Ethanol (Ethylalkohol)
OEL TWA [1]	1900 mg/m ³
OEL TWA [2]	1000 ppm
Regulatory reference	BEK nr 290 af 13/02/2021
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, 17.10.2019, 2); Vabariigi Valitsuse 10. märtsi 2019. a määruse nr 84
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

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Ethyl alcohol (64-17-5)	
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Alcool éthylique
VME (OEL TWA)	1900 mg/m³
VME (OEL TWA) [ppm]	1000 ppm
VLE (OEL C/STEL)	9500 mg/m³
VLE (OEL C/STEL) [ppm]	5000 ppm
Note (FR)	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/m³
AGW (OEL TWA) [2]	200 ppm
Peak exposure limitation factor	2(II)
Remark	DFG;Y
Regulatory reference	TRGS900
Greece - Occupational Exposure Limits	
Local name	Αιθνόλη
OEL TWA	1900 mg/m³
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
Megjegyzések (HU)	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 2020
Latvia - Occupational Exposure Limits	
Local name	Etilspirts (etanols)
OEL TWA	1000 mg/m³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325

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Ethyl alcohol (64-17-5)	
Lithuania - Occupational Exposure Limits	
Local name	Etanolis (etilo alkoholis)
IPRV (OEL TWA)	1000 mg/m ³
IPRV (OEL TWA) [ppm]	500 ppm
TPRV (OEL STEL)	1900 mg/m ³
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
MAC-TGG (OEL TWA)	260 mg/m ³
MAC-15 (OEL STEL)	1900 mg/m ³
Remark (MAC)	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 2021
Poland - Occupational Exposure Limits	
Local name	Etanol (alkohol etylowy)
NDS (OEL TWA)	1900 mg/m ³
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
Chemical category	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
Remark	A3 (Agente carcinogénico confirmado nos animais de laboratório com 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

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Ethyl alcohol (64-17-5)	
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 (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
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
Notes	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 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Etanol
NGV (OEL TWA)	1000 mg/m ³
NGV (OEL TWA) [ppm]	500 ppm
KTV (OEL STEL)	1900 mg/m ³
KTV (OEL STEL) [ppm]	1000 ppm
Anmärkning (SE)	V (Väglödande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
Local name	Ethanol
WEL TWA (OEL TWA) [1]	1920 mg/m ³
WEL TWA (OEL TWA) [2]	1000 ppm
WEL STEL (OEL STEL)	5760 mg/m ³ (calculated)
WEL STEL (OEL STEL) [ppm]	3000 ppm (calculated)

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Ethyl alcohol (64-17-5)	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	Etanól (etýlalkóhól)
OEL TWA	1900 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)
Norway - Occupational Exposure Limits	
Local name	Etanol
Grenseverdi (OEL TWA) [1]	950 mg/m ³
Grenseverdi (OEL TWA) [2]	500 ppm
Korttidsverdi (OEL STEL)	1187.5 mg/m ³ (value calculated)
Korttidsverdi (OEL STEL) [ppm]	625 ppm (value calculated)
Regulatory reference	FOR-2020-04-06-695
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 2021
propane (74-98-6)	
Austria - Occupational Exposure Limits	
Local name	Propan (R 290)
MAK (OEL TWA)	1800 mg/m ³
MAK (OEL TWA) [ppm]	1000 ppm
MAK (OEL STEL)	3600 mg/m ³
MAK (OEL STEL) [ppm]	2000 ppm
Regulatory reference	BGBI. II Nr. 238/2018
Belgium - Occupational Exposure Limits	
Local name	Hydrocarbures aliphatiques sous forme gazeuse: (Alcanes C1-C3) # Alifatische koolwaterstoffen in gas-vorm: Alkanen (C1-C3)
OEL TWA [ppm]	1000 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020
Bulgaria - Occupational Exposure Limits	
Local name	Пропан
OEL TWA	1800 mg/m ³
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.5 от 17 Януари 2020 г.)

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propane (74-98-6)	
Denmark - Occupational Exposure Limits	
Local name	Propan (Flaskegas)
OEL TWA [1]	1800 mg/m³
OEL TWA [2]	1000 ppm
OEL STEL	3600 mg/m³
OEL STEL [ppm]	2000 ppm
Regulatory reference	BEK nr 290 af 13/02/2021
Estonia - Occupational Exposure Limits	
Local name	Propaan
OEL TWA	1800 mg/m³
OEL TWA [ppm]	1000 ppm
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 17.10.2019, 2); Vabariigi Valitsuse 10. märtsi 2019. a määruse nr 84
Finland - Occupational Exposure Limits	
Local name	Propaani
HTP (OEL TWA) [1]	1500 mg/m³
HTP (OEL TWA) [2]	800 ppm
HTP (OEL STEL)	2000 mg/m³
HTP (OEL STEL) [ppm]	1100 ppm
Huomautus (FI)	Happea syrjäyttämällä tukahduttavat kaasut.
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Propan
AGW (OEL TWA) [1]	1800 mg/m³
AGW (OEL TWA) [2]	1000 ppm
Peak exposure limitation factor	4(II)
Remark	DFG
Regulatory reference	TRGS900
Greece - Occupational Exposure Limits	
Local name	Προπάνιο
OEL TWA	1800 mg/m³
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
Ireland - Occupational Exposure Limits	
OEL STEL [ppm]	3000 ppm (calculated (Aliphatic hydrocarbon gases - Alkanes (C1-C4))
Chemical category	Simple asphyxiant
Latvia - Occupational Exposure Limits	
Local name	Propāns
OEL TWA	1800 mg/m³

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propane (74-98-6)	
OEL TWA [ppm]	1000 ppm
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2015. gada 7. aprīlī noteikumiem Nr. 163)
Poland - Occupational Exposure Limits	
Local name	Propan
NDS (OEL TWA)	1800 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
OEL TWA [ppm]	1000 ppm
Romania - Occupational Exposure Limits	
Local name	Propan
OEL TWA	1400 mg/m ³
OEL TWA [ppm]	778 ppm
OEL STEL	1800 mg/m ³
OEL STEL [ppm]	1000 ppm
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
Slovenia - Occupational Exposure Limits	
Local name	propan
OEL TWA	1800 mg/m ³
OEL TWA [ppm]	1000 ppm
OEL STEL	7200 mg/m ³
OEL STEL [ppm]	4000 ppm
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Propano
VLA-ED (OEL TWA) [2]	1000 ppm Hidrocarburos alifáticos alcanos (C1 – C4) y sus mezclas, gases (Butano; Etano; Metano; Propano)
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Iceland - Occupational Exposure Limits	
Local name	Própan (flöskugas)
OEL TWA	1800 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)
Norway - Occupational Exposure Limits	
Local name	Propan
Grenseverdi (OEL TWA) [1]	900 mg/m ³
Grenseverdi (OEL TWA) [2]	500 ppm
Korttidsverdi (OEL STEL)	1125 mg/m ³ (value calculated)
Korttidsverdi (OEL STEL) [ppm]	625 ppm (value calculated)

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propane (74-98-6)	
Regulatory reference	FOR-2020-04-06-695
USA - ACGIH - Occupational Exposure Limits	
Local name	Propane
ACGIH OEL TWA [ppm]	1000 ppm
Remark (ACGIH)	TLV® Basis: Simple Asphyxiant
ACGIH chemical category	Simple asphyxiant See Appendix F: Minimal Oxygen Content
Regulatory reference	ACGIH 2021
Silica, amorphous, precipitated and gel (112926-00-8)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	4 mg/m³ (inhalable fraction (Silica, amorphous))
Belgium - Occupational Exposure Limits	
Local name	Silices amorphes: précipités (gel de silice) # Siliciumdioxide (amorf): kiezel (neergeslagen)(silicagel)
OEL TWA	10 mg/m³
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020
Bulgaria - Occupational Exposure Limits	
OEL TWA	10 mg/m³ (inhalable fraction (free Silicon dioxide, amorphous, synthetic, derived from sedimentation processes))
Finland - Occupational Exposure Limits	
Local name	Piidioksidi, saostettu
HTP (OEL TWA) [1]	5 mg/m³
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
Poland - Occupational Exposure Limits	
Local name	Krzemionka bezpostaciowa i syntetyczna: krzemionka bezpostaciowa syntetyczna (strącona i żel)
NDS (OEL TWA)	10 mg/m³ frakcja wdychalna 2 mg/m³ frakcja respirabilna
Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikaćca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.
Regulatory reference	Dz. U. 2018 poz. 1286
Glycerol (56-81-5)	
Belgium - Occupational Exposure Limits	
Local name	Glycérine (brouillard) # Glycerine (nevel)
OEL TWA	10 mg/m³
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020
Croatia - Occupational Exposure Limits	
Local name	Glicerol
GVI (OEL TWA) [1]	10 mg/m³

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Glycerol (56-81-5)	
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 91/2018)
Czech Republic - Occupational Exposure Limits	
Local name	Glycerol, mlha
PEL (OEL TWA)	10 mg/m ³
PEL (OEL TWA) [ppm]	2.6 ppm
NPK-P (OEL C)	15 mg/m ³
NPK-P (OEL C) [ppm]	3.9 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
OEL TWA [1]	3 mg/m ³ ORGANISK STØV, TOTAL
Estonia - Occupational Exposure Limits	
Local name	Glütseriin (glütserool, 1,2,3-propaantriool)
OEL TWA	10 mg/m ³
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 17.10.2019, 2); Vabariigi Valitsuse 10. märtsi 2019. a määruse nr 84
Finland - Occupational Exposure Limits	
Local name	Glyseroli
HTP (OEL TWA) [1]	20 mg/m ³
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Glycérine (aérosols de)
VME (OEL TWA)	10 mg/m ³
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Glycerin
AGW (OEL TWA) [1]	200 mg/m ³ (E)
AGW (OEL C)	100 mg/m ³
Peak exposure limitation factor	2(I)
Remark	DFG;Y
Regulatory reference	TRGS900
Greece - Occupational Exposure Limits	
Local name	Γλυκερίνη
OEL TWA	10 mg/m ³
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
Poland - Occupational Exposure Limits	
Local name	Glicerol
NDS (OEL TWA)	10 mg/m ³ frakcja wdychalna

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Glycerol (56-81-5)	
Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia.
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
OEL TWA	10 mg/m ³ (mist)
Slovakia - Occupational Exposure Limits	
Local name	Glycerín
NPHV (OEL TWA) [1]	10 mg/m ³
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	glicerín
OEL TWA	200 mg/m ³
OEL STEL	400 mg/m ³
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Glicerina
VLA-ED (OEL TWA) [1]	10 mg/m ³ nieblas
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
United Kingdom - Occupational Exposure Limits	
Local name	Glycerol
WEL TWA (OEL TWA) [1]	10 mg/m ³ mist
WEL STEL (OEL STEL)	30 mg/m ³ (calculated-mist)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Citral (5392-40-5)	
Belgium - Occupational Exposure Limits	
Local name	Citral (vapeur et aérosol) # Citral (damp en aérosol)
OEL TWA	32 mg/m ³
OEL TWA [ppm]	5 ppm
Remark (BE)	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.
Chemical category	Skin
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020
Ireland - Occupational Exposure Limits	
Local name	Citral
OEL TWA [2]	5 ppm

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Citral (5392-40-5)	
OEL STEL [ppm]	15 ppm (calculated)
Regulatory reference	Chemical Agents Code of Practice 2020
Poland - Occupational Exposure Limits	
Local name	3,7-Dimetylookta-2,6-dienal (cytral)
NDS (OEL TWA)	27 mg/m ³
NDSch (OEL STEL)	54 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
OEL TWA [ppm]	5 ppm
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)
Notes	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).
Chemical category	Sensitizer, skin - potential for cutaneous absorption
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
USA - ACGIH - Occupational Exposure Limits	
Local name	Citral
ACGIH OEL TWA [ppm]	5 ppm (inhalable fraction and vapor)
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 2021
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
Finland - Occupational Exposure Limits	
Local name	D-Limoneeni
HTP (OEL TWA) [1]	140 mg/m ³

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(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
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 terveysministeriö)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	(R)-p-Mentha-1,8-dien (D-Limonen)
AGW (OEL TWA) [1]	28 mg/m ³
AGW (OEL TWA) [2]	5 ppm
Peak exposure limitation factor	4(II)
Remark	DFG;H;Sh;Y
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 (SI)	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Chemical category	Potential for cutaneous absorption
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	d-Limoneno
VLA-ED (OEL TWA) [1]	168 mg/m ³
VLA-ED (OEL TWA) [2]	30 ppm
Notes	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).
Chemical category	Sensitizer, skin - potential for cutaneous absorption
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Norway - Occupational Exposure Limits	
Local name	d-limonen (Limonen)
Grenseverdi (OEL TWA) [1]	140 mg/m ³
Grenseverdi (OEL TWA) [2]	25 ppm
Merknader (NO)	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.
Regulatory reference	FOR-2020-04-06-695

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Starch (9005-25-8)	
Belgium - Occupational Exposure Limits	
Local name	Amidon # Zetmeel
OEL TWA	10 mg/m ³
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020
Croatia - Occupational Exposure Limits	
GVI (OEL TWA) [1]	4 mg/m ³ (respirable dust) 10 mg/m ³ (total dust, inhalable particles)
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	4 mg/m ³ (dust)
Denmark - Occupational Exposure Limits	
OEL TWA [1]	3 mg/m ³ ORGANISK STØV, TOTAL
Greece - Occupational Exposure Limits	
Local name	Άμυλο
OEL TWA	10 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction)
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
Ireland - Occupational Exposure Limits	
Local name	Starch
OEL TWA [1]	10 mg/m ³ (total inhalable dust) 4 mg/m ³ (respirable dust)
Regulatory reference	Chemical Agents Code of Practice 2020
Italy - Occupational Exposure Limits	
Local name	Amido
OEL TWA	10 mg/m ³ Amido commestibile
Portugal - Occupational Exposure Limits	
Local name	Amido
OEL TWA	10 mg/m ³
Chemical category	A4 - Not Classifiable as a Human Carcinogen
Remark	A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Spain - Occupational Exposure Limits	
Local name	Almidón
VLA-ED (OEL TWA) [1]	10 mg/m ³
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
United Kingdom - Occupational Exposure Limits	
Local name	Starch
WEL TWA (OEL TWA) [1]	4 mg/m ³ respirable 10 mg/m ³ total inhalable
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

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Starch (9005-25-8)	
Norway - Occupational Exposure Limits	
Grænseverdi (OEL TWA) [1]	5 mg/m ³ Organisk støv, totalstøv
USA - ACGIH - Occupational Exposure Limits	
Local name	Starch
ACGIH OEL TWA	10 mg/m ³
Remark (ACGIH)	TLV® Basis: Dermatitis. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2021
.beta.-Pinene (127-91-3)	
Belgium - Occupational Exposure Limits	
Local name	Essence de térébenthine et monoterpènes sélectionnés # Terpentijn en geselecteerde monoterpenen
OEL TWA [ppm]	20 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020
Denmark - Occupational Exposure Limits	
OEL TWA [1]	140 mg/m ³
OEL TWA [2]	25 ppm
OEL STEL	280 mg/m ³
OEL STEL [ppm]	50 ppm
Estonia - Occupational Exposure Limits	
Local name	β-pineen (vt terpeenid)
OEL TWA	150 mg/m ³
OEL TWA [ppm]	25 ppm
OEL STEL	300 mg/m ³
OEL STEL [ppm]	50 ppm
Remark (ET)	10 (Põhjamaade okaspuudest toodetud tärpentinil on nahka ärritav toime, monoterpeneidel, välja arvatud 3-kareenil, on see toime väiksem)
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 17.10.2019, 2); Vabariigi Valitsuse 10. märtsi 2019. a määruse nr 84
Lithuania - Occupational Exposure Limits	
Local name	beta-pinenas (terpenai)
IPRV (OEL TWA)	150 mg/m ³
IPRV (OEL TWA) [ppm]	25 ppm
TPRV (OEL STEL)	300 mg/m ³
TPRV (OEL STEL) [ppm]	50 ppm
Remark (LT)	Spygliuočių sakai jautrina odą. Atskirų terpenų, išskyrus 3-kareną, jautrinantis poveikis nėra ištirtas.
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Portugal - Occupational Exposure Limits	
Local name	Terebentina, e monoterpenos específicos

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.beta.-Pinene (127-91-3)	
OEL TWA [ppm]	20 ppm
Chemical category	Sensitizer, A4 - Not Classifiable as a Human Carcinogen
Remark	SC (Agente com potencial para produzir sensibilização pela via cutânea); A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Spain - Occupational Exposure Limits	
Local name	β-pineno (monoterpeno)
VLA-ED (OEL TWA) [1]	113 mg/m ³
VLA-ED (OEL TWA) [2]	20 ppm
Chemical category	Sensitizer
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	β-Pinen (jfr Terpener)
NGV (OEL TWA)	150 mg/m ³
NGV (OEL TWA) [ppm]	25 ppm
KTV (OEL STEL)	300 mg/m ³
KTV (OEL STEL) [ppm]	50 ppm
Anmärkning (SE)	S (Ämnet är sensibiliserande. Sensibiliserande ämnen kan ge allergi eller annan överkänslighet. Överkänslighetsbesvären drabbar främst huden eller andningsorganen. Överkänslighet innebär att man reagerar vid kontakt med ämnen som normalt inte ger besvär. Allergi är en undergrupp av överkänslighet som orsakas av reaktioner i kroppens immunsystem. Särskilt låga gränsvärden har fastställts för ämnen med mer uttalat luftvägssensibiliserande egenskaper. Några ämnen med starkt sensibiliserande egenskaper får endast hanteras efter tillstånd från Arbetsmiljöverket, se föreskrifterna om kemiska arbetsmiljörisker. Dessa ämnen har inga gränsvärden men i vissa fall riktvärden); V (Vägläddande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Chemical category	Sensitizer
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Norway - Occupational Exposure Limits	
Local name	β-pinen
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)
Regulatory reference	FOR-2020-04-06-695
USA - ACGIH - Occupational Exposure Limits	
Local name	β-Pimene
ACGIH OEL TWA [ppm]	20 ppm
Remark (ACGIH)	TLV® Basis: Lung irr. Notations: DSEN; A4 (Not classifiable as a Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen, dermal sensitizer
Regulatory reference	ACGIH 2021

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Pin-2(3)-ene (80-56-8)	
Belgium - Occupational Exposure Limits	
Local name	Essence de térébenthine et monoterpènes sélectionnés # Terpentijn en geselecteerde monoterpenen
OEL TWA [ppm]	20 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020
Estonia - Occupational Exposure Limits	
Local name	α-pineen (2,6,6-trimetüülbisükle-[3.1.1]hept-2-een) (vt terpeenid)
OEL TWA	150 mg/m ³
OEL TWA [ppm]	25 ppm
OEL STEL	300 mg/m ³
OEL STEL [ppm]	50 ppm
Remark (ET)	10 (Põhjamaade okaspuudest toodetud tärpentinil on nahka ärritav toime, monoterpeenidel, välja arvatud 3-kareenil, on see toime väiksem)
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 17.10.2019, 2); Vabariigi Valitsuse 10. märtsi 2019. a määruse nr 84
Lithuania - Occupational Exposure Limits	
Local name	alfa-pinenas (terpenai)
IPRV (OEL TWA)	150 mg/m ³
IPRV (OEL TWA) [ppm]	25 ppm
TPRV (OEL STEL)	300 mg/m ³
TPRV (OEL STEL) [ppm]	50 ppm
Remark (LT)	Spygliuočių sakai jautrina odą. Atskirų terpenų, išskyrus 3-kareną, jautrinantis poveikis nėra ištirtas.
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Portugal - Occupational Exposure Limits	
Local name	Terebentina, e monoterpénos específicos
OEL TWA [ppm]	20 ppm
Chemical category	Sensitizer, A4 - Not Classifiable as a Human Carcinogen
Remark	SC (Agente com potencial para produzir sensibilização pela via cutânea); A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Spain - Occupational Exposure Limits	
Local name	α-pineno (monoterpeno)
VLA-ED (OEL TWA) [1]	113 mg/m ³
VLA-ED (OEL TWA) [2]	20 ppm
Chemical category	Sensitizer
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	α-Pinen (jfr Terpener)
NGV (OEL TWA)	150 mg/m ³
NGV (OEL TWA) [ppm]	25 ppm

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Pin-2(3)-ene (80-56-8)	
KTV (OEL STEL)	300 mg/m ³
KTV (OEL STEL) [ppm]	50 ppm
Anmärkning (SE)	S (Ämnet är sensibiliserande. Sensibiliserande ämnen kan ge allergi eller annan överkänslighet. Överkänslighetsbesvären drabbar främst huden eller andningsorganen. Överkänslighet innebär att man reagerar vid kontakt med ämnen som normalt inte ger besvär. Allergi är en undergrupp av överkänslighet som orsakas av reaktioner i kroppens immunsystem. Särskilt låga gränsvärden har fastställts för ämnen med mer uttalat luftvägssensibiliserande egenskaper. Några ämnen med starkt sensibiliserande egenskaper får endast hanteras efter tillstånd från Arbetsmiljöverket, se föreskrifterna om kemiska arbetsmiljörisker. Dessa ämnen har inga gränsvärden men i vissa fall riktvärden); V (Vägleddande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Chemical category	Sensitizer
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Norway - Occupational Exposure Limits	
Local name	α-pinen
Grenseverdi (OEL TWA) [1]	140 mg/m ³
Grenseverdi (OEL TWA) [2]	25 ppm
Merknader (NO)	H: Kjemikalier som kan tas opp gjennom huden.
Chemical category	Skin notation
Regulatory reference	FOR-2020-04-06-695
USA - ACGIH - Occupational Exposure Limits	
Local name	α-Pimene
ACGIH OEL TWA [ppm]	20 ppm
Remark (ACGIH)	TLV® Basis: Lung irr. Notations: DSEN; A4 (Not classifiable as a Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen, dermal sensitizer
Regulatory reference	ACGIH 2021

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

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

None under normal use.

8.2.2.1. Eye and face protection

Eye protection:

None under normal use

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8.2.2.2. Skin protection

Skin and body protection:

None under normal use

Hand protection:

None under normal use

8.2.2.3. Respiratory protection

Respiratory protection:

None under normal use

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	: Liquid
Colour	: Off-white.
Appearance	: Clear
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 applicable
Lower explosive limit (LEL)	: Not applicable
Upper explosive limit (UEL)	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20 °C	: Not applicable
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle aggregation state	: Not available
Particle agglomeration state	: Not available
Particle specific surface area	: Not available
Particle dustiness	: Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

% of flammable ingredients : 94

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9.2.2. Other safety characteristics

Gas group : Compressed gas
VOC content : < 94 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Heating will cause a rise in pressure with a risk of bursting. Avoid ignition sources. Avoid temperature above 50 °C.

10.2. Chemical stability

Extremely flammable aerosol. Contains gas under pressure; may explode if heated.

10.3. Possibility of hazardous reactions

Heating may cause a fire or explosion.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature.

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	124.7 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	> 99999 mg/l

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
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)
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)	
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)

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

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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : None known

11.2.2. Other information

Other information : Historical Data, not tested on animals for cosmetics.
Likely routes of exposure: 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)

Ethyl alcohol (64-17-5)

LC50 - Fish [1]	12 – 16 mg/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
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'

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Ethyl alcohol (64-17-5)

Partition coefficient n-octanol/water (Log Pow)	-0.32
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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

Additional information : Avoid release to the environment.

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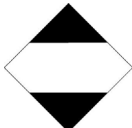




SECTION 13: Disposal considerations

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, (D)	UN 1950 AEROSOLS, 2.1, LTD QTY	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
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

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Limited Quantities (IMDG)	: SP277
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)	: Y963
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: Y963
PCA max net quantity (IATA)	: 30kgG
CAO packing instructions (IATA)	: Y963
CAO max net quantity (IATA)	: 30kgG
Special provisions (IATA)	: A112
ERG code (IATA)	: 9L

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

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : < 94 %

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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 2, Significantly 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 is listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: Ethyl alcohol is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: Ethyl alcohol is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: Ethyl alcohol is listed

Denmark

Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product
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15.2. Chemical safety assessment

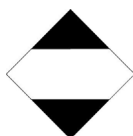
No chemical safety assessment has been carried out

SECTION 16: Other information

Department of Transportation (DOT)

In accordance with DOT

Transport document description	: UN1950 Aerosols, 2.1
UN-No.(DOT)	: UN1950
Proper Shipping Name (DOT)	: Aerosols
Technical Shipping Name (DOT)	: Not applicable
Hazard class (DOT)	: 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
Subsidiary hazard class (DOT)	: None
Packing group (DOT)	: None
Hazard labels (DOT)	: LTD QTY - Limited quantity



DOT Packaging Non Bulk (49 CFR 173.xxx)	: None
DOT Packaging Bulk (49 CFR 173.xxx)	: None
DOT Special Provisions (49 CFR 172.102)	: N82.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 306

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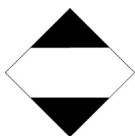
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg
DOT Vessel Stowage Location : A
DOT Vessel Stowage Other : 25;87;126
Emergency Response Guide (ERG) Number : 126
Other information : Consult the associated transport regulations for available and applicable exceptions or exemptions.

Transportation of Dangerous Goods

In accordance with TDG

UN-No. (TDG) : UN1950
TDG Primary Hazard Classes : 2.1 - Class 2.1 - Flammable Gas
Subsidiary hazard classes : None
Transport document description : UN1950 AEROSOLS, 2.1
Proper Shipping Name (Transportation of Dangerous Goods) : AEROSOLS
Technical Shipping Name (TDG) : Not applicable
Hazard labels (TDG) : LTD QTY - Limited quantity



Packing group : None
TDG Special Provisions : 80, 107
Explosive Limit and Limited Quantity Index : 1 L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 75 L
Other information : None

Full text of H- and EUH-statements

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.

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
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Safety Data Sheet (SDS), EU

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