

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

1.1. Product identifier

Product form : Mixture
Trade name : FLEX HAIRSPRAY (EU)
Product code : AF-327

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.
1 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 2 H223;H229

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

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) : Warning

Hazard statements (CLP) : H223 - Flammable aerosol.
H229 - Pressurised container: May burst if heated.

Precautionary statements (CLP) : P102 - Keep out of reach of children.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

2.3. Other hazards not contributing to the classification

No additional information available

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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 substance with a Community workplace exposure limit	(CAS-No.) 115-10-6 (EC-No.) 204-065-8 (EC Index-No.) 603-019-00-8	40	Flam. Gas 1A, H220 Press. Gas

Full text of H-statements: see section 16

INGREDIENTS: Alcohol Denat., Dimethyl Ether, Water/Eau/Aqua, Polyurethane-14, Octylacrylamide/Acrylates/Butylaminoethyl Methacrylate Copolymer, AMP-Acrylates Copolymer, Panthenol, Polyglyceryl-10 Pentaoleate, PPG-5-Ceteth-20, Triethyl Citrate, Aminomethyl Propanol, Fragrance/Parfum, Citronellol, Limonene, Citral

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	: 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	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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.
Symptoms/effects after skin contact	: None under normal use.
Symptoms/effects after eye contact	: May cause slight 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	: Use extinguishing media appropriate for surrounding fire. Carbon dioxide. Water spray. Dry powder. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable aerosol.
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Hazardous decomposition products in case of fire	: On combustion, forms: carbon oxides (CO and CO2).

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	: Absorb spillage to prevent material damage.
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6.1.1. For non-emergency personnel

Protective equipment	: Wear personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate area.

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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Stop leak without risks if possible. Do not allow product to spread into the environment.
- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Dispose in a safe manner in accordance with local/national regulations.

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

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

7.2. Conditions for safe storage, including any incompatibilities

- 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 : Sources of ignition. Strong oxidizing agents.

7.3. Specific end use(s)

Refer to section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

dimethyl ether (115-10-6)

EU - Occupational Exposure Limits

Local name	Dimethylether
IOELV TWA (mg/m³)	1920 mg/m³
IOELV TWA (ppm)	1000 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

Austria - Occupational Exposure Limits

Local name	Dimethylether
MAK (mg/m³)	1910 mg/m³
MAK (ppm)	1000 ppm
MAK Short time value (mg/m³)	3820 mg/m³ (3x 60(Mow) min)
MAK Short time value (ppm)	2000 ppm (3x 60(Mow) min)
OEL - Ceilings (mg/m³)	3820 mg/m³
OEL - Ceilings (ppm)	2000 ppm
Regulatory reference	BGBI. II Nr. 238/2018

Belgium - Occupational Exposure Limits

Local name	Oxyde de diméthyle # Dimethylether
Limit value (mg/m³)	1920 mg/m³
Limit value (ppm)	1000 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 21/01/2020

Bulgaria - Occupational Exposure Limits

Local name	Диметилетер
OEL TWA (mg/m³)	1920 mg/m³
OEL TWA (ppm)	1000 ppm
Notes	• (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.5 от 17 Януари 2020 г.)

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dimethyl ether (115-10-6)	
Croatia - Occupational Exposure Limits	
Local name	Dimetil-eter
GVI (granična vrijednost izloženosti) (mg/m³)	1920 mg/m³
GVI (granična vrijednost izloženosti) (ppm)	1000 ppm
Naznake (HR)	Direktiva: 2000/39/EZ
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	Dimethylether
Expoziční limity (PEL) (mg/m³)	1000 mg/m³
Expoziční limity (PEL) (ppm)	531 ppm
Expoziční limity (NPK-P) (mg/m³)	2000 mg/m³
Expoziční limity (NPK-P) (ppm)	1060 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zpracovány změny č. 246/2018 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Dimethylether
Grænsevædi (8 timer) (mg/m³)	1920 mg/m³
Grænsevædi (8 timer) (ppm)	1000 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi)
Regulatory reference	BEK nr 1458 af 13/12/2019
Estonia - Occupational Exposure Limits	
Local name	Dimetüüleeter
OEL TWA (mg/m³)	1920 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	Dimetyylieetteri
HTP-arvo (8h) (mg/m³)	2000 mg/m³
HTP-arvo (8h) (ppm)	1000 ppm
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Oxyde de diméthyle
VME (mg/m³)	1920 mg/m³
VME (ppm)	1000 ppm
Note (FR)	Valeurs réglementaires indicatives
Regulatory reference	Arrêté du 30 juin 2004 modifié (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Dimethylether
Occupational exposure limit value (mg/m³)	1900 mg/m³
Occupational exposure limit value (ppm)	1000 ppm
Limitation of exposure peaks	8(II)
TRGS 900 Remark	DFG;EU
TRGS 900 Regulatory reference	TRGS900
Gibraltar - Occupational Exposure Limits	
Name of agent	Dimethylether

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dimethyl ether (115-10-6)	
Eight hours mg/m ³	1920 mg/m ³
Eight hours 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 (mg/m ³)	1920 mg/m ³
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-érték	1920 mg/m ³
CK-érték	7680 mg/m ³
Megjegyzések (HU)	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 (8 hours ref) (mg/m ³)	1920 mg/m ³
OEL (8 hours ref) (ppm)	1000 ppm
Notes (IE)	IOELV (Indicative Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2020
Italy - Occupational Exposure Limits	
Local name	Etere dimetilico
OEL TWA (mg/m ³)	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 (mg/m ³)	1920 mg/m ³
OEL TWA (ppm)	1000 ppm
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumi Nr. 325
Lithuania - Occupational Exposure Limits	
Local name	Dimetileteris
IPRV (mg/m ³)	1920 mg/m ³
IPRV (ppm)	1000 ppm
TPRV (mg/m ³)	2280 mg/m ³
TPRV (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 (mg/m ³)	1920 mg/m ³
OEL TWA (ppm)	1000 ppm
Regulatory reference	Mémorial A N° 684 de 2018 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

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dimethyl ether (115-10-6)	
Malta - Occupational Exposure Limits	
Local name	Dimethylether
OEL TWA (mg/m³)	1920 mg/m³
OEL TWA (ppm)	1000 ppm
Regulatory reference	S.L.424.24 - Chemical Agents at Work Regulations (L.N.57 of 2018)
Netherlands - Occupational Exposure Limits	
Local name	Dimethylether
Grenswaarde TGG 8H (mg/m³)	950 mg/m³
Grenswaarde TGG 15MIN (mg/m³)	1500 mg/m³
Regulatory reference	Arbeidsomstandighedenregeling 2020
Poland - Occupational Exposure Limits	
Local name	Eter dimetylowy
NDS (mg/m³)	1000 mg/m³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
OEL TWA (mg/m³)	1920 mg/m³
OEL TWA (ppm)	1000 ppm
Romania - Occupational Exposure Limits	
Local name	Dimetil eter/Oxid de dimetil
OEL TWA (mg/m³)	1920 mg/m³
OEL TWA (ppm)	1000 ppm
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 157/2020)
Slovakia - Occupational Exposure Limits	
Local name	Dimetyléter
NPHV (priemerná) (mg/m³)	1920 mg/m³
NPHV (priemerná) (ppm)	1000 ppm
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	dimetileter
OEL TWA (mg/m³)	1920 mg/m³
OEL TWA (ppm)	1000 ppm
OEL STEL (mg/m³)	15360 mg/m³
OEL STEL (ppm)	8000 ppm
Remark (SI)	EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Metiléter
VLA-ED (mg/m³)	1920 mg/m³
VLA-ED (ppm)	1000 ppm
Notes	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 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Dimetyleter
nivågränsvärde (NVG) (mg/m³)	950 mg/m³
nivågränsvärde (NVG) (ppm)	500 ppm

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dimethyl ether (115-10-6)	
kortidsvärde (KTV) (mg/m³)	1500 mg/m³
kortidsvärde (KTV) (ppm)	800 ppm
Anmärkning (SE)	V (Vägledande 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	Dimethyl ether
WEL TWA (mg/m³)	766 mg/m³
WEL TWA (ppm)	400 ppm
WEL STEL (mg/m³)	958 mg/m³
WEL STEL (ppm)	500 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	Dímetyleter
OEL (8 hours ref) (mg/m³)	1885 mg/m³
OEL (8 hours ref) (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	Dimetyleter
Grenseverdier (AN) (mg/m³)	384 mg/m³
Grenseverdier (AN) (ppm)	200 ppm
Merknader (NO)	E (EU har en veiledende grenseverdi for stoffet)
Regulatory reference	FOR-2018-08-21-1255
tert-Butyl alcohol (75-65-0)	
Austria - Occupational Exposure Limits	
Local name	2-Methyl-2-propanol
MAK (mg/m³)	62 mg/m³
MAK (ppm)	20 ppm
MAK Short time value (mg/m³)	248 mg/m³ (4x 15(Miw) min)
MAK Short time value (ppm)	80 ppm (4x 15(Miw) min)
Remark (AT)	H
Regulatory reference	BGBI. II Nr. 238/2018
Belgium - Occupational Exposure Limits	
Local name	Alcool tert-butylique # tert-Butanol
Limit value (mg/m³)	307 mg/m³
Limit value (ppm)	100 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 21/01/2020
Croatia - Occupational Exposure Limits	
Local name	2-Metil-propan-2-ol; terc-butil-alkohol
GVI (granična vrijednost izloženosti) (mg/m³)	308 mg/m³
GVI (granična vrijednost izloženosti) (ppm)	100 ppm
KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³)	462 mg/m³
KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	150 ppm

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tert-Butyl alcohol (75-65-0)	
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	Butanol (Butylalkohol) (všechny isomery)
Expoziční limity (PEL) (mg/m³)	300 mg/m³
Expoziční limity (PEL) (ppm)	100 ppm
Expoziční limity (NPK-P) (mg/m³)	600 mg/m³
Expoziční limity (NPK-P) (ppm)	200 ppm
Remark (CZ)	I (dráždí sliznice (oči, dýchací cesty) resp. kůže)
OEL chemical category (CZ)	Potential for cutaneous absorption
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zpracovány změny č. 246/2018 Sb.)
Denmark - Occupational Exposure Limits	
Local name	tert-Butylalkohol
Grænseværdi (loftværdi) (mg/m³)	150 mg/m³
Grænseværdi (loftværdi) (ppm)	50 ppm
Anmærkninger (DK)	L (markerer, at grænseværdien er en loftværdi, som ikke på noget tidspunkt må overskrides); H (betyder, at stoffet kan optages gennem huden)
OEL chemical category (DK)	Potential for cutaneous absorption
Regulatory reference	BEK nr 1458 af 13/12/2019
Estonia - Occupational Exposure Limits	
Local name	Butanoolid (butüülalkoholid), v.a n-butanool
OEL TWA (mg/m³)	150 mg/m³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m³)	250 mg/m³
OEL STEL (ppm)	75 ppm
Remark (ET)	A (Naha kaudu kergesti imenduv aine)
OEL chemical category (ET)	Skin notation
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	tert-Butanoli
HTP-arvo (8h) (mg/m³)	150 mg/m³
HTP-arvo (8h) (ppm)	50 ppm
HTP-arvo (15 min)	230 mg/m³
HTP-arvo (15 min) (ppm)	75 ppm
Huomautus (FI)	iho
OEL chemical category (FI)	Potential for cutaneous absorption
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Alcool tert-butylque
VME (mg/m³)	300 mg/m³
VME (ppm)	100 ppm
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	2-Methylpropanol-2

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tert-Butyl alcohol (75-65-0)	
Occupational exposure limit value (mg/m³)	62 mg/m³
Occupational exposure limit value (ppm)	20 ppm
Limitation of exposure peaks	4(II)
TRGS 900 Remark	DFG;Y
TRGS 900 Regulatory reference	TRGS900
Greece - Occupational Exposure Limits	
Local name	Βουτανόλη, τριτοταγής-
OEL TWA (mg/m³)	300 mg/m³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m³)	450 mg/m³
OEL STEL (ppm)	150 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	
Local name	2-Methylpropan-2-ol [tert-Butanol, tert-Butyl alcohol]
OEL (8 hours ref) (mg/m³)	300 mg/m³
OEL (8 hours ref) (ppm)	100 ppm
OEL (15 min ref) (mg/m³)	900 mg/m³ (calculated)
OEL (15 min ref) (ppm)	300 ppm (calculated)
Regulatory reference	Chemical Agents Code of Practice 2020
Latvia - Occupational Exposure Limits	
Local name	Butilspirti (pirmējais, otrējais, trešējais) (2-metil-2-propanols)
OEL TWA (mg/m³)	10 mg/m³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
Local name	2-metil-2-propanolis (tret-butilo alkoholis)
IPRV (mg/m³)	150 mg/m³
IPRV (ppm)	50 ppm
TPRV (mg/m³)	250 mg/m³
TPRV (ppm)	75 ppm
Remark (LT)	O (medžiaga į organizmą gali prasiskverbti pro nepažeistą odą); Ū (ūmus poveikis)
OEL chemical category (LT)	Skin notation
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Poland - Occupational Exposure Limits	
Local name	2-Metylopropan-2-ol (tert-butylowy alkohol)
NDS (mg/m³)	300 mg/m³
NDSch (mg/m³)	450 mg/m³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	terc-Butanol (Álcool terc-butílico)
OEL TWA (ppm)	100 ppm
OEL chemical category (PT)	A4 - Not Classifiable as a Human Carcinogen
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Butylalkoholy (butanoly): terc-Butanol

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tert-Butyl alcohol (75-65-0)	
NPHV (priemerná) (mg/m³)	62 mg/m³
NPHV (priemerná) (ppm)	20 ppm
OEL STEL (mg/m³)	250 mg/m³
OEL STEL (ppm)	80 ppm
NPHV (Hraničná) (mg/m³)	250 mg/m³
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	2-metil-2-propanol (terc-butilalkohol)
OEL TWA (mg/m³)	62 mg/m³
OEL TWA (ppm)	20 ppm
OEL STEL (mg/m³)	248 mg/m³
OEL STEL (ppm)	80 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	terc-Butanol (Alcohol terc-butílico)
VLA-ED (mg/m³)	308 mg/m³
VLA-ED (ppm)	100 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 consúltase: 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	tert-Butanol
nivågränsvärde (NVG) (mg/m³)	150 mg/m³
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m³)	250 mg/m³
kortidsvärde (KTV) (ppm)	75 ppm
Anmärkning (SE)	H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga); V (Väglödande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
OEL chemical category (SE)	Skin notation
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
Local name	2-Methylpropan-2-ol
WEL TWA (mg/m³)	308 mg/m³
WEL TWA (ppm)	100 ppm
WEL STEL (mg/m³)	462 mg/m³
WEL STEL (ppm)	150 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	Bútanól (bútýlalkóhól, ísóbútýlalkóhól), allir isomerar nema n -bútanól (n -bútýlalkóhól)
OEL (15 min ref) (mg/m³)	150 mg/m³

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tert-Butyl alcohol (75-65-0)	
OEL (15 min ref) (ppm)	50 ppm
Notes (IS)	H (efnið getur auðveldlega borist inn í líkamann gegnum húð)
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Norway - Occupational Exposure Limits	
Local name	2-metyl-2-propanol
Grenseverdier (Takverdi) (mg/m³)	75 mg/m³
Grenseverdier (Takverdi) (ppm)	25 ppm
Merknader (NO)	H (Kjemikalier som kan tas opp gjennom huden); T (Takverdi er en øyeblikksverdi som angir maksimalkonsentrasjon av et kjemikalie i pustesonen som ikke skal overskrides)
OEL chemical category (NO)	Skin notation
Regulatory reference	FOR-2018-08-21-1255
USA - ACGIH - Occupational Exposure Limits	
Local name	tert-Butanol
ACGIH TWA (ppm)	100 ppm
Remark (ACGIH)	TLV® Basis: CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2020
Ethyl alcohol (64-17-5)	
Austria - Occupational Exposure Limits	
Local name	Ethanol
MAK (mg/m³)	1900 mg/m³
MAK (ppm)	1000 ppm
MAK Short time value (mg/m³)	3800 mg/m³
MAK Short time value (ppm)	2000 ppm
Regulatory reference	BGBl. II Nr. 238/2018
Belgium - Occupational Exposure Limits	
Local name	Alcool éthylique # Ethanol
Limit value (mg/m³)	1907 mg/m³
Limit value (ppm)	1000 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 21/01/2020
Bulgaria - Occupational Exposure Limits	
Local name	Етилов алкохол
OEL TWA (mg/m³)	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.5 от 17 Януари 2020 г.)
Croatia - Occupational Exposure Limits	
Local name	Etanol; etil-alkohol
GVI (granična vrijednost izloženosti) (mg/m³)	1900 mg/m³
GVI (granična vrijednost izloženosti) (ppm)	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)
Expoziční limity (PEL) (mg/m³)	1000 mg/m³
Expoziční limity (PEL) (ppm)	530 ppm

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Ethyl alcohol (64-17-5)	
Expoziční limity (NPK-P) (mg/m³)	3000 mg/m³
Expoziční limity (NPK-P) (ppm)	1600 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zpracovány změny č. 246/2018 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Ethanol (Ethylalkohol)
Grænsevædi (8 timer) (mg/m³)	1900 mg/m³
Grænsevædi (8 timer) (ppm)	1000 ppm
Regulatory reference	BEK nr 1458 af 13/12/2019
Estonia - Occupational Exposure Limits	
Local name	Etanool (etüülalkohol)
OEL TWA (mg/m³)	1000 mg/m³
OEL TWA (ppm)	500 ppm
OEL STEL (mg/m³)	1900 mg/m³
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-arvo (8h) (mg/m³)	1900 mg/m³
HTP-arvo (8h) (ppm)	1000 ppm
HTP-arvo (15 min)	2500 mg/m³
HTP-arvo (15 min) (ppm)	1300 ppm
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Alcool éthylique
VME (mg/m³)	1900 mg/m³
VME (ppm)	1000 ppm
VLE (mg/m³)	9500 mg/m³
VLE (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)	
TRGS 900 Local name	Ethanol
Occupational exposure limit value (mg/m³)	380 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Occupational exposure limit value (ppm)	200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Limitation of exposure peaks	2(II)
TRGS 900 Remark	DFG;Y
TRGS 900 Regulatory reference	TRGS900
Greece - Occupational Exposure Limits	
Local name	Αιθνόλη
OEL TWA (mg/m³)	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

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Ethyl alcohol (64-17-5)	
Hungary - Occupational Exposure Limits	
Local name	ETIL-ALKOHOL
AK-érték	1900 mg/m ³
CK-érték	7600 mg/m ³
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 (15 min ref) (ppm)	1000 ppm
Regulatory reference	Chemical Agents Code of Practice 2020
Latvia - Occupational Exposure Limits	
Local name	Etilspirts (etanols)
OEL TWA (mg/m ³)	1000 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
Lithuania - Occupational Exposure Limits	
Local name	Etanolis (etilo alkoholis)
IPRV (mg/m ³)	1000 mg/m ³
IPRV (ppm)	500 ppm
TPRV (mg/m ³)	1900 mg/m ³
TPRV (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
Grenswaarde TGG 8H (mg/m ³)	260 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	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 2020
Poland - Occupational Exposure Limits	
Local name	Etanol (alkohol etylowy)
NDS (mg/m ³)	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
OEL chemical category (PT)	A4 - Not Classifiable as a Human Carcinogen
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Alcool etilic/Etanol
OEL TWA (mg/m ³)	1900 mg/m ³
OEL TWA (ppm)	1000 ppm

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Ethyl alcohol (64-17-5)	
OEL STEL (mg/m ³)	9500 mg/m ³
OEL STEL (ppm)	5000 ppm
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 157/2020)
Slovakia - Occupational Exposure Limits	
Local name	Etylalkohol (etanol)
NPHV (priemerná) (mg/m ³)	960 mg/m ³
NPHV (priemerná) (ppm)	500 ppm
OEL STEL (mg/m ³)	1920 mg/m ³
OEL STEL (ppm)	1000 ppm
NPHV (Hraničná) (mg/m ³)	1920 mg/m ³
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	etanol (etilalkohol)
OEL TWA (mg/m ³)	960 mg/m ³
OEL TWA (ppm)	500 ppm
OEL STEL (mg/m ³)	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 (mg/m ³)	1910 mg/m ³ (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary o biocide compound)
VLA-ED (ppm)	1000 ppm (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary o biocide compound)
VLA-EC (mg/m ³)	1910 mg/m ³
VLA-EC (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 consúltase: 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
nivågränsvärde (NVG) (mg/m ³)	1000 mg/m ³
nivågränsvärde (NVG) (ppm)	500 ppm
kortidsvärde (KTV) (mg/m ³)	1900 mg/m ³
kortidsvärde (KTV) (ppm)	1000 ppm
Anmärkning (SE)	V (Väglödande kortidsgränsvärde 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 (mg/m ³)	1920 mg/m ³
WEL TWA (ppm)	1000 ppm

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Ethyl alcohol (64-17-5)	
WEL STEL (mg/m³)	5760 mg/m³ (calculated)
WEL STEL (ppm)	3000 ppm (calculated)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	Etanól (etýlalkóhól)
OEL (8 hours ref) (mg/m³)	1900 mg/m³
OEL (8 hours ref) (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
Grenseverdier (AN) (mg/m³)	950 mg/m³
Grenseverdier (AN) (ppm)	500 ppm
Grenseverdier (Korttidsverdi) (mg/m³)	1187.5 mg/m³ (value calculated)
Grenseverdier (Korttidsverdi) (ppm)	625 ppm (value calculated)
Regulatory reference	FOR-2018-08-21-1255
USA - ACGIH - Occupational Exposure Limits	
Local name	Ethanol
ACGIH 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 2020
Citral	
Belgium - Occupational Exposure Limits	
Local name	Citral (vapeur et aérosol) # Citral (damp en aérosol)
Limit value (mg/m³)	32 mg/m³
Limit value (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.
OEL chemical category (BE)	Skin
Regulatory reference	Koninklijk besluit/Arrêté royal 21/01/2020
Ireland - Occupational Exposure Limits	
Local name	Citral
OEL (8 hours ref) (ppm)	5 ppm IFV (Inhale Fraction and Vapour)
OEL (15 min ref) (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 (mg/m³)	27 mg/m³
NDSch (mg/m³)	54 mg/m³
Regulatory reference	Dz. U. 2018 poz. 1286

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Citral	
Portugal - Occupational Exposure Limits	
OEL TWA (ppm)	5 ppm
OEL chemical category (PT)	Sensitizer, skin - potential for cutaneous exposure
Spain - Occupational Exposure Limits	
Local name	Citral
VLA-ED (ppm)	5 ppm
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).
OEL chemical category (ES)	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 TWA (ppm)	5 ppm (IFV - 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	dermal sensitizer, Skin - potential significant contribution to overall exposure by the cutaneous route, Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2020

2-Amino-2-methyl-1-propanol (124-68-5)	
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	2-Amino-2-methyl-1-propanol (AMP)
Occupational exposure limit value (mg/m³)	3.7 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Occupational exposure limit value (ppm)	1 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Limitation of exposure peaks	2(II)
TRGS 900 Remark	DFG;H;Y;11
Chemical category	Skin notation
TRGS 900 Regulatory reference	TRGS900
Slovenia - Occupational Exposure Limits	
Local name	2-amino-2-metil-1-propanol (AMP)
OEL TWA (mg/m³)	3.7 mg/m³
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m³)	7.4 mg/m³
OEL STEL (ppm)	2 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)

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2-Amino-2-methyl-1-propanol (124-68-5)	
OEL chemical category (SI)	Potential for cutaneous absorption
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019

D-Limonene (5989-27-5)	
Finland - Occupational Exposure Limits	
Local name	D-Limoneeni
HTP-arvo (8h) (mg/m³)	140 mg/m³
HTP-arvo (8h) (ppm)	25 ppm
HTP-arvo (15 min)	280 mg/m³
HTP-arvo (15 min) (ppm)	50 ppm
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	(R)-p-Mentha-1,8-dien (D-Limonen)
Occupational exposure limit value (mg/m³)	28 mg/m³
Occupational exposure limit value (ppm)	5 ppm
Limitation of exposure peaks	4(II)
TRGS 900 Remark	DFG;H;Sh;Y
Chemical category	Skin notation, Skin sensitization
TRGS 900 Regulatory reference	TRGS900
Slovenia - Occupational Exposure Limits	
Local name	(R)-p-menta-1,8-dien (D-limonen)
OEL TWA (mg/m³)	28 mg/m³
OEL TWA (ppm)	5 ppm
OEL STEL (mg/m³)	112 mg/m³
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)
OEL chemical category (SI)	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 (mg/m³)	168 mg/m³
VLA-ED (ppm)	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).
OEL chemical category (ES)	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)
Grenseverdier (AN) (mg/m³)	140 mg/m³
Grenseverdier (AN) (ppm)	25 ppm
Grenseverdier (Korttidsverdi) (mg/m³)	175 mg/m³ (value calculated)
Grenseverdier (Korttidsverdi) (ppm)	37.5 ppm (value calculated)

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D-Limonene (5989-27-5)	
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)
OEL chemical category (NO)	Sensitizing substance
Regulatory reference	FOR-2018-08-21-1255

8.2. Exposure controls

Appropriate engineering controls:

Local exhaust and general room ventilation are both essential to prevent accumulation of flammable vapour.

Hand protection:

Not necessary under the recommended storage and handling conditions

Eye protection:

No special eye protection equipment recommended under normal conditions of use

Respiratory protection:

Not necessary under the recommended storage and handling conditions

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
Appearance	: Transparent.
Colour	: Clear to light yellow.
Odour	: characteristic. Citrus fruits.
Odour threshold	: No data available
pH	: 8.5 - 9
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 365.4 - 530.9 kPa @ 21°C
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.815 - 0.835
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: < 95 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

On combustion forms: Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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)

Alcohol Denat. (64-17-5)

LD50 oral rat	7060 mg/kg
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 8.5 - 9
Serious eye damage/irritation	: Not classified (On basis of test data) pH: 8.5 - 9
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)
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)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Potential Adverse human health effects and symptoms	: Not expected to present a significant hazard under anticipated conditions of normal use.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified (Based on available data, the classification criteria are not met)
Chronic aquatic toxicity : Not classified (Based on available data, the classification criteria are not met)

12.2. Persistence and degradability

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Persistence and degradability	Not established.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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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. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information


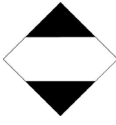




In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1950	1950	1950	1950	1950
14.2. UN proper shipping name				
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS

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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
Packing instructions (IMDG)	: P207, LP200
Limited quantities (IMDG)	: SP277
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

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Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01, VE04
Number of blue cones/lights (ADN)	: 1

Rail transport

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. Transport in bulk according to Annex II of Marpol and the IBC Code

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

VOC content	: < 95 %
Directive 2012/18/EU (SEVESO III)	

15.1.2. National regulations

Germany

Reference to AwSV	: Water hazard class (WGK) 1, low hazard to waters (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen	: Alcohol Denat. is listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: Alcohol Denat. is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: Alcohol Denat. is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: Alcohol Denat. is listed

Denmark

Danish National Regulations	: 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

Indication of changes:			
Section	Changed item	Change	Comments
3	Composition/information on ingredients	Modified	
8.1	Control parameters	Modified	

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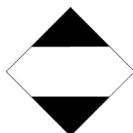
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14	Proper Shipping Name (IMDG)	Modified	
14	Danger labels (IMDG)	Modified	
14	Danger labels (IATA)	Modified	
16	Other information	Added	

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

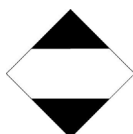


DOT Packaging Non Bulk (49 CFR 173.xxx) : None
DOT Packaging Bulk (49 CFR 173.xxx) : None
DOT Special Provisions (49 CFR 172.102) : N82
DOT Packaging Exceptions (49 CFR 173.xxx) : 306
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 75 kg
DOT Quantity Limitations Cargo aircraft only (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
Packing group : None
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



TDG Special Provisions : 80, 107
Explosive Limit and Limited Quantity Index : 1 L

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Passenger Carrying Road Vehicle or Passenger : 75 L

Carrying Railway Vehicle Index

Other information : Consult the associated transport regulations for available and applicable exceptions or exemptions

Transport by sea

Technical Shipping Name (IMDG) : Not applicable

Subsidiary hazard class(es) (IMDG) : None

Air transport

Technical Shipping Name (IATA) : Not applicable

Subsidiary hazard class(es) (IATA) : None

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.

Other information : None.

Full text of H- and EUH-statements:

Flam. Gas 1A	Flammable gases, Category 1A
Press. Gas	Gases under pressure
H220	Extremely flammable gas.
H223	Flammable aerosol.
H229	Pressurised container: May burst if heated.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Aerosol 2	H223;H229	Expert judgment
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SDS EU (REACH Annex II)

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