



Rapid Remover Adhesive Remover

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 7/20/2026 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Name : Rapid Remover Adhesive Remover
UFI : **Hazardous mixture, will require UFI and PCN submission. The UFI number is required on the label or next to the label on the product. It is not required on the SDS sheet. Please advise if you would like it included on the SDS sheet.**

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

1.2.1. Relevant identified uses

Main use category : Industrial use, professional use.
Use of the substance/mixture : Surface cleaner.

1.2.2. Uses advised against

Restrictions on use : Any use not specified.

1.3. Details of the supplier of the safety data sheet

Rapid Tac Inc.
190 North Valley Drive
Suite L
Grants Pass, Oregon 97526 USA
Tel.: +1 (541) 474-1113 (Tuesday to Friday; 6:30 AM - 4:30 PM Pacific)
Email: mail@rapidtac.com



1.4. Emergency telephone number

Emergency number : ChemTel LLC (7 days a week, 24 hours a day)
+1 (800) 255-3924 (North America)
+1 (813) 248-0585 (International)

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3 H226
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 1 H318
Skin sensitisation, Category 1 H317
Aspiration hazard, Category 1 H304
Hazardous to the aquatic environment – Acute Hazard, Category 1 H400
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May be fatal if swallowed and enters airways. Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :



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Signal word (CLP)	: Danger
Contains	: Alcohols, C9-11, Ethoxylated; Distillates (petroleum), hydrotreated light; (R)-p-mentha-1,8-diene; d-limonene
Hazard statements (CLP)	: H226 - Flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground and bond container and receiving equipment. P241 - Use explosion-proof electrical, lighting, ventilating equipment. P261 - Avoid breathing mist, spray, vapours. P264 - Wash hands, forearms and face thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P302+P352 - IF ON SKIN: Wash with plenty of water. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor. P331 - Do NOT induce vomiting. P332+P313 - If skin irritation occurs: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P370+P378 - In case of fire: Use media other than water to extinguish. P391 - Collect spillage. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII.

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated light substance with national workplace exposure limit(s) (DE)	CAS-No.: 64742-47-8 EC-No.: 265-149-8 EC Index-No.: 649-422-00-2	30 - 50	Asp. Tox. 1, H304
(R)-p-mentha-1,8-diene; d-limonene substance with national workplace exposure limit(s) (FI, DE, SI, ES, SE) (Note C)	CAS-No.: 5989-27-5 EC-No.: 227-813-5 EC Index-No.: 601-029-00-7	15 - 25	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-propoxypropan-2-ol	CAS-No.: 1569-01-3 EC-No.: 216-372-4	15 - 25	Flam. Liq. 3, H226 Eye Irrit. 2, H319
Alcohols, C9-11, Ethoxylated	CAS-No.: 68439-46-3 EC-No.: 614-482-0	4.5 - 5.5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Glycerol (glycerin, glycerine) substance with national workplace exposure limit(s) (BE, HR, CZ, EE, FI, FR, DE, GR, IE, PL, SK, SI, ES, GB)	CAS-No.: 56-81-5 EC-No.: 200-289-5 REACH-no: 01-2119471987-18	< 0.1	Not classified
Diethanolamine substance with national workplace exposure limit(s) (AT, BE, CZ, DK, FI, FR, DE, IE, LT, PL, PT, SI, ES, SE, GB)	CAS-No.: 111-42-2 EC-No.: 203-868-0 EC Index-No.: 603-071-00-1	trace	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 1, H372
Methanol substance with national workplace exposure limit(s) (AT, BE, CZ, DK, FI, FR, DE, HU, IE, IT, LV, LT, NL, PL, PT, SK, SI, ES, SE, GB); substance with a Community workplace exposure limit	CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X	trace	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
Acetaldehyde; ethanal substance with national workplace exposure limit(s) (AT, CZ, DK, FI, FR, DE, HU, IE, LV, LT, NL, PL, PT, SK, SI, ES, SE, GB)	CAS-No.: 75-07-0 EC-No.: 200-836-8 EC Index-No.: 605-003-00-6	trace	Flam. Liq. 1, H224 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335
Ethylene oxide substance with national workplace exposure limit(s) (AT, BE, CZ, DK, FI, FR, HU, IE, IT, LV, LT, NL, PL, PT, SK, SI, ES, SE, GB); substance with a Community workplace exposure limit (Note U)	CAS-No.: 75-21-8 EC-No.: 200-849-9 EC Index-No.: 603-023-00-X	trace	Press. Gas Flam. Gas 1, H220 Carc. 1B, H350 Muta. 1B, H340 Repr. 1B, H360Fd Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Oral), H301 STOT SE 3, H335 STOT SE 3, H336 STOT RE 1, H372 Skin Corr. 1, H314 Eye Dam. 1, H318

Commented [AP1]: Substances with national exposure limits are required to be listed on the SDS without a de minimis threshold.

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Methanol	CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X	(3 ≤ C < 10) STOT SE 2; H371 (10 ≤ C < 100) STOT SE 1; H370

Exact concentrations are withheld as trade secret.

Note C - Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In th is case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
Note U - When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.), Press. Gas (Liq.), Press. Gas (Ref. Liq.), Press. Gas (Diss.). Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).
Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. Call a physician immediately.

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First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow the victim to rest.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects	: May be fatal if swallowed and enters airways.
Symptoms/effects after inhalation	: Inhalation may cause: irritation, coughing, shortness of breath.
Symptoms/effects after skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes. Causes serious eye damage.
Symptoms/effects after ingestion	: Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray to cool containers. Dry powder. Foam. Carbon dioxide. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable liquid and vapour.
Explosion hazard	: No direct explosion hazard. May form flammable/explosive vapour-air mixture.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions	: Exercise caution when fighting any chemical fire. Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus. Complete protective clothing. EN 469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Stop leak if safe to do so. Use special care to avoid static electric charges. Remove ignition sources. No open flames. No smoking. Absorb spillage to prevent material damage. Notify authorities if product enters sewers or public waters.
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6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Evacuate unnecessary personnel. Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing mist, spray, vapours.

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	: Stop leak without risks if possible. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Collect spillage.
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. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

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6.4. Reference to other sections

For further information refer to section 13. See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	: Ensure good ventilation of the work station. Take precautionary measures against static discharge. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Flammable vapours may accumulate in the container. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing mist, spray, vapours. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, lighting, ventilating equipment.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat and ignition sources. Keep container tightly closed. Store locked up.
Incompatible products	: Strong bases. Strong acids.
Packaging materials	: Always store product in container of same material as original container. Handle empty containers with care because residual vapours are flammable.
Storage class (LGK)	: LGK 3 - Flammable liquids
Joint storage not permitted for	: LGK 1, LGK 2A, LGK 4.1A, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1A, LGK 5.1C, LGK 5.2, LGK 6.1B, LGK 6.2, LGK 7
Joint storage with restrictions permitted for	: LGK 5.1B, LGK 6.1D, LGK 11, LGK 10-13
Joint storage permitted for	: LGK 2B, LGK 3, LGK 6.1A, LGK 6.1C, LGK 8A, LGK 8B, LGK 10, LGK 12, LGK 13

7.3. Specific end use(s)

Surface cleaner.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Distillates (petroleum), hydrotreated light (64742-47-8)	
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Destillate (Erdöl), mit Wasserstoff behandelt leichte (C9 – C14 Aliphaten)
Occupational exposure limit value (mg/m³)	600 mg/m³
Remark	AGS - Ausschuss für Gefahrstoffe; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
USA - ACGIH® - Threshold Limit Values	
ACGIH TWA (mg/m³)	5 mg/m³
ACGIH STEL (mg/m³)	10 mg/m³
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
Finland - Occupational Exposure Limits	
Local name	D-Limoneeni
HTP-arvo (8h) (mg/m³)	140 mg/m³

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(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
HTP-arvo (8h) (ppm)	25 ppm
HTP-arvo (15 min)	280 mg/m³
HTP-arvo (15 min) (ppm)	50 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	(R)-p-Mentha-1,8-dien (D-Limonen)
Occupational exposure limit value (mg/m³)	28 mg/m³
Occupational exposure limit value (ppm)	5 ppm
Peak exposure limitation factor	4(II)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); H - hautresorptiv; Sh - Hautsensibilisierender Stoff; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
Slovenia - Occupational Exposure Limits	
Local name	(R)-p-menta-1,8-dien (D-limonen)
OEL TWA	28 mg/m³
	5 ppm
OEL STEL	112 mg/m³
	20 ppm
Remark	K (Lastnost lažjega prehanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 29/2024 z dne 4. 4. 2024 - Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
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).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2024. INSHT
Sweden - Occupational Exposure Limits	
Nivågränsvärde (NVG) (mg/m³)	150 mg/m³
Nivågränsvärde (NVG) (ppm)	25 ppm
Kortidsvärde (KTV) (mg/m³)	300 mg/m³
Kortidsvärde (KTV) (ppm)	50 ppm
Norway - Occupational Exposure Limits	
Local name	d-limonen (Limonen)
Grenseverdier (AN) (mg/m³)	140 mg/m³

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(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
Grenseverdier (AN) (ppm)	25 ppm
Remark	A: Kjemikalier som skal betraktes som at de fremkaller allergi eller annen overfølsomhet i øynene eller luftveier, eller som skal betraktes som at de fremkaller allergi ved hudkontakt.
Regulatory reference	FOR-2023-12-18-2278
Switzerland - Occupational Exposure Limits	
VME [mg/m³]	110 mg/m³
MAK (ppm)	20 ppm
KZGW (mg/m³)	220 mg/m³
KZGW (ppm)	40 ppm
Glycerol (glycerin, glycerine) (56-81-5)	
Belgium - Occupational Exposure Limits	
Local name	Glycérine (brouillard) # Glycerine (nevel)
Limit value [mg/m³]	10 mg/m³
Remark (BE)	(brouillard)
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020
Croatia - Occupational Exposure Limits	
Local name	Glicerol
GVI (granična vrijednost izloženosti) (mg/m³)	10 mg/m³
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 1/2021)
Czech Republic - Occupational Exposure Limits	
Local name	Glycerol, mlha
Expoziční limity (PEL) (mg/m³)	10 mg/m³
Expoziční limity (PEL) (ppm)	2.6 ppm
Expoziční limity (NPK-P) (mg/m³)	15 mg/m³
Expoziční limity (NPK-P) (ppm)	3.9 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)
Estonia - Occupational Exposure Limits	
Local name	Glütseriin (glütserool, 1,2,3-propaantriool)
OEL TWA	10 mg/m³
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-arvo (8h) (mg/m³)	20 mg/m³
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystiete)
France - Occupational Exposure Limits	
Local name	Glycérine (aérosols de)
VME [mg/m³]	10 mg/m³
Note (FR)	Valeurs recommandées/admises

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Glycerol (glycerin, glycerine) (56-81-5)	
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Glycerin
Occupational exposure limit value (mg/m³)	200 mg/m³ (E)
Peak exposure limitation factor	2(I)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
Greece - Occupational Exposure Limits	
Local name	Γλυκερίνη
OEL TWA (mg/m³)	10 mg/m³
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 (8 hours ref) (mg/m³)	10 mg/m³
Poland - Occupational Exposure Limits	
Local name	Glicerol
NDS (mg/m³)	10 mg/m³ frakcja wdychalna
Remark	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
Slovakia - Occupational Exposure Limits	
Local name	Glycerín
NPHV (priemerná) (mg/m³)	10 mg/m³
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	glicerín
OEL TWA	200 mg/m³
OEL STEL	400 mg/m³
Remark	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
Spain - Occupational Exposure Limits	
Local name	Glicerina
VLA-ED (mg/m³)	10 mg/m³ nieblas
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
United Kingdom - Occupational Exposure Limits	
Local name	Glycerol
WEL TWA (mg/m³)	10 mg/m³ mist

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Glycerol (glycerin, glycerine) (56-81-5)	
WEL STEL (OEL STEL)*	30 mg/m³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Switzerland - Occupational Exposure Limits	
Local name	Glycérine / Glycerin
VME [mg/m³]	50 mg/m³ (i) / (e)
KZGW (mg/m³)	100 mg/m³ (i) / (e)
Critical toxicity	VRS / OAW
Notation	SSc / SSc
Remark	(inhalable aerosol)
Regulatory reference	www.suva.ch, 01.01.2021
USA - ACGIH® - Threshold Limit Values	
ACGIH TWA (mg/m³)	10 mg/m³
Diethanolamine (111-42-2)	
Austria - Occupational Exposure Limits	
MAK [mg/m³]	2 mg/m³ (H,Sh)
MAK (OEL TWA)	0.46 ppm (H,Sh)
MAK Short time value [mg/m³]	4 mg/m³ max. 4x15 min./Schicht, (H,Sh)
MAK Short time value [ppm]	0.92 ppm max. 4x15 min./Schicht, (H,Sh)
Belgium - Occupational Exposure Limits	
Limit value [mg/m³]	2 mg/m³
Limit value [ppm]	0.46 ppm
Remark (BE)	D
Czech Republic - Occupational Exposure Limits	
Local name	Diethanolamin
Expoziční limity (PEL) (mg/m³)	5 mg/m³
Expoziční limity (PEL) (ppm)	1.16 ppm
Expoziční limity (NPK-P) (mg/m³)	10 mg/m³
Expoziční limity (NPK-P) (ppm)	2.32 ppm
Remark	I - dráždí sliznice (oči, dýchací cesty), respektive kůže.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Diethanolamin (Bis(2-hydroxyethyl)amin; Iminodiethanol)
Grænseværdi (8 timer) (mg/m³)	2 mg/m³
Grænseværdi (8 timer) (ppm)	0.46 ppm
Grænseværdi (STEL) (mg/m³)	4 mg/m³
Grænseværdi (STEL) (ppm)	0.92 ppm
Remark	H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 2203 af 29. november 2021

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Diethanolamine (111-42-2)	
Finland - Occupational Exposure Limits	
Local name	Dietanoliamiini
HTP-arvo (8h) (mg/m³)	2 mg/m³
HTP-arvo (8h) (ppm)	0.46 ppm
Remark	Iho
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Diéthanolamine
VME [mg/m³]	15 mg/m³
VLEP 8h (OEL TWA)	3 ppm
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m³)	0.5 mg/m³
Occupational exposure limit value (ppm)	0.11 ppm
Peak exposure limitation factor	1(I)
Remark	AGS - Ausschuss für Gefahrstoffe; H - hautresorptiv; Sh - Hautsensibilisierender Stoff; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden; 11 - Summe aus Dampf und Aerosolen; 6 - Die Reaktion mit nitrosierenden Agentien kann zur Bildung der entsprechenden kanzerogenen N-Nitrosoamine führen
Regulatory reference	TRGS900
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m³)	1 mg/m³
Lithuania - Occupational Exposure Limits	
IPRV (mg/m³)	15 mg/m³
IPRV (OEL TWA)	3 ppm
TPRV (mg/m³)	30 mg/m³
TPRV (ppm)	6 ppm
Poland - Occupational Exposure Limits	
Local name	2,2'-Iminodietanol
NDS (mg/m³)	9 mg/m³
Remark	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Dietanolamina
OEL TWA (mg/m³)	1 mg/m³ FIV (Fração inalável e vapor)
Remark	P (Toxicidade percutânea); A3 (Agente carcinogénico confirmado nos animais de laboratório com relevância desconhecida no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014

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Diethanolamine (111-42-2)	
Slovenia - Occupational Exposure Limits	
Local name	dietanolamin
OEL TWA	15 mg/m³
	0.11 ppm
OEL STEL	0.5 mg/m³
	0.11 ppm
Remark	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
Spain - Occupational Exposure Limits	
Local name	Dietanolamina
VLA-ED (mg/m³)	2 mg/m³
VLA-ED (ppm)	0.46 ppm
Notes	vía dérmica,f
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT
Sweden - Occupational Exposure Limits	
Local name	Dietanolamin
Nivågränsvärde (NVG) (mg/m³)	15 mg/m³
Nivågränsvärde (NVG) (ppm)	3 ppm
Kortidsvärde (KTV) (mg/m³)	30 mg/m³
Kortidsvärde (KTV) (ppm)	6 ppm
Remark	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)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m³)	13 mg/m³
WEL TWA (ppm)	3 ppm
WEL STEL (OEL STEL)*	39 mg/m³
	9 ppm
Remark	The UK Advisory Committee on Toxic Substances has expressed concern that, for these OELs, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but are omitted from the published 2005 list.
Norway - Occupational Exposure Limits	
Local name	2,2'-iminodietanol (3-azapentan-1,5-diol; Dietanolamin)
Grenseverdier (AN) (mg/m³)	15 mg/m³
Grenseverdier (AN) (ppm)	3 ppm
Regulatory reference	FOR-2021-06-28-2248

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Diethanolamine (111-42-2)	
Switzerland - Occupational Exposure Limits	
VME [mg/m³]	1 mg/m³
KZGW (mg/m³)	1 mg/m³
Remark	(inhalable aerosol)
USA - ACGIH® - Threshold Limit Values	
Local name	Diethanolamine
ACGIH TWA (mg/m³)	1 mg/m³
Remark (ACGIH®)	Liver & kidney dam
Regulatory reference	ACGIH 2022
Methanol (67-56-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Methanol
IOEL TWA	260 mg/m³
	200 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
Austria - Occupational Exposure Limits	
MAK [mg/m³]	260 mg/m³ (H)
MAK (OEL TWA)	200 ppm (H)
MAK Short time value [mg/m³]	1040 mg/m³ max. 4x15 min./Schicht, (H)
MAK Short time value [ppm]	800 ppm max. 4x15 min./Schicht, (H)
Belgium - Occupational Exposure Limits	
Limit value [mg/m³]	266 mg/m³
Limit value [ppm]	200 ppm
Short time value [mg/m³]	333 mg/m³
Short time value [ppm]	250 ppm
Remark (BE)	D
Czech Republic - Occupational Exposure Limits	
Local name	Methanol (Methylalkohol)
Expoziční limity (PEL) (mg/m³)	250 mg/m³
Expoziční limity (PEL) (ppm)	188 ppm
Expoziční limity (NPK-P) (mg/m³)	1000 mg/m³
Expoziční limity (NPK-P) (ppm)	751 ppm
Remark	D - při expozici se významně uplatňuje pronikání faktorů kůží, B - u látky je zaveden biologický expoziční test (BET) v moči nebo krvi.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)
Czech Republic - Biological limit values	
Local name	Methanol (Methylalkohol)

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Methanol (67-56-1)	
BLV	15 mg/l Ukazatel: Methanol - Biologicky vzorek: moči - Doba odběru: konec směny 0.47 mmol/l Ukazatel: Methanol - Biologicky vzorek: moči - Doba odběru: konec směny
Regulatory reference	Vyhláška č. 107/2013 Sb. (kterou se mění vyhláška č. 432/2003 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Methanol (Methylalkohol)
Grænseværdi (8 timer) (mg/m³)	260 mg/m³
Grænseværdi (8 timer) (ppm)	200 ppm
Grænseværdi (STEL) (mg/m³)	520 mg/m³
Grænseværdi (STEL) (ppm)	400 ppm
Remark	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 2203 af 29. november 2021
Finland - Occupational Exposure Limits	
Local name	Metanoli
HTP-arvo (8h) (mg/m³)	270 mg/m³
HTP-arvo (8h) (ppm)	200 ppm
HTP-arvo (15 min)	330 mg/m³
HTP-arvo (15 min) (ppm)	250 ppm
Remark	Iho
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Méthanol (alcool méthylique)
VME [mg/m³]	260 mg/m³
VLEP 8h (OEL TWA)	200 ppm
VLE [mg/m³]	1300 mg/m³
VLE [ppm]	1000 ppm
Note (FR)	Valeurs réglementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849)
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m³)	130 mg/m³
Occupational exposure limit value (ppm)	100 ppm
Limitation of exposure peaks (mg/m³)	1080 mg/m³
Limitation of exposure peaks (ppm)	800 ppm
Peak exposure limitation factor	2(II)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); H - hautresorptiv; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900

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Methanol (67-56-1)	
Germany - Biological limit values (TRGS 903)	
Biological limit value	30 mg/l
Remark	(Urin; bei Langzeitexposition/Expositionsende bzw. Schichtende)
Hungary - Occupational Exposure Limits	
Local name	METANOL
AK-érték	260 mg/m³
Remark	b (Bőrön át is felszívódik), i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármat); EU2 (2006/15/EK irányelvben közölt érték); R+T (Azok az anyagok, amelyek RÖVID és TARTÓS expozíciója is egészségkárosodást okoz)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Hungary - Biological Exposure Indices	
Local name	Metanol
BEI	30 mg/l Biológiai expozíciós (hatás) mutató: metanol - Biológiai minta: vizeletben - Mintavétel ideje: m.v. (műszak végén) 940 µmol/l Biológiai expozíciós (hatás) mutató: metanol - Biológiai minta: vizeletben - Mintavétel ideje: m.v. (műszak végén)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m³)	260 mg/m³
OEL (8 hours ref) (ppm)	200 ppm
Italy - Occupational Exposure Limits	
Local name	Metanolo
OEL TWA	260 mg/m³ 200 ppm
Remark	Cute
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	Metanols (metilspirts, karbinols)
OEL TWA	260 mg/m³
OEL TWA (ppm)	200 ppm
Remark	Āda
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
Lithuania - Occupational Exposure Limits	
IPRV (mg/m³)	260 mg/m³
IPRV (OEL TWA)	200 ppm
Netherlands - Occupational Exposure Limits	
Local name	Methanol
Grenswaarde TGG 8H (mg/m³)	133 mg/m³

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Methanol (67-56-1)	
Remark	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.
Regulatory reference	Arbeidsomstandighedenregeling 2022
Poland - Occupational Exposure Limits	
Local name	Metanol (metylowy alkohol)
NDS (mg/m³)	100 mg/m³
NDSch (mg/m³)	300 mg/m³
Remark	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Metanol (Álcool metílico)
OEL TWA	200 ppm
OEL STEL	250 ppm
Remark	P (Toxicidade percutânea); IBE (Índice biológico de exposição)
Regulatory reference	Norma Portuguesa NP 1796:2014
Portugal - Biological Exposure Indices	
Local name	Metanol
BEI	15 mg/l Parâmetro: Metanol - Meio: urina - Momento da amostragem: Fim do turno - Notação: Vb (Valor basal), Ne (Não específico)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Metylalkohol (metanol)
NPHV (priemerná) (mg/m³)	260 mg/m³
NPHV (priemerná) (ppm)	200 ppm
Remark	K - znamená, že faktor môže byť ľahko absorbovaný kožou
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovakia - Biological limit values	
Local name	Metanol
BLV	30 µg/l Zisťovaný faktor: Metanol - Vyšetrovaný materiál: moč - Čas odberu vzorky: c) pri dlhodobej expozícii; po viacerých pracovných zmenách, b) koniec expozície alebo pracovnej zmeny
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (Zmena: 471/2011 Z.z.)
Slovenia - Occupational Exposure Limits	
Local name	metanol (metilalkohol)
OEL TWA	260 mg/m³ 200 ppm
OEL STEL	1040 mg/m³ 800 ppm

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Methanol (67-56-1)	
Remark	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), BAT (Biološka mejna vrednost), EU
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
Slovenia - Biological limit values	
Local name	metanol
BLV	15 mg/l Parameter: metanol - Biološki vzorec: urin - Čas vzorčenja: ob koncu delovne izmene,pri dolgotrajni izpostavljenosti: ob koncu delovne izmene po več zaporednih delavnikih
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
Spain - Occupational Exposure Limits	
Local name	Metanol (Alcohol metílico)
VLA-ED (mg/m³)	266 mg/m³
VLA-ED (ppm)	200 ppm
VLA-EC (mg/m³)	333 mg/m³ vía dérmica,VLB,VLI
VLA-EC (ppm)	250 ppm vía dérmica,VLB,VLI
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), VLB® (Agente químico que tiene Valor Límite Biológico), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT
Spain - Biological limit values	
Local name	Metanol (Alcohol metílico)
BLV	15 mg/l Parámetro: Metanol - Medio: Orina - Momento de muestreo: Final de la jornada laboral - Notas: F (Fondo. El indicador está generalmente presente en cantidades detectables en personas no expuestas laboralmente. Estos niveles de fondo están considerados en el valor VLB), I (Significa que el indicador biológico es inespecífico puesto que puede encontrarse después de la exposición a otros agentes químicos)
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT
Sweden - Occupational Exposure Limits	
Local name	Metanol
Nivågränsvärde (NVG) (mg/m³)	250 mg/m³
Nivågränsvärde (NVG) (ppm)	200 ppm
Kortidsvärde (KTV) (mg/m³)	350 mg/m³
Kortidsvärde (KTV) (ppm)	250 ppm
Remark	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 (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m³)	266 mg/m³
WEL TWA (ppm)	200 ppm

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Methanol (67-56-1)	
WEL STEL (mg/m³)	333 mg/m³
WEL STEL (OEL STEL) [ppm]	250 ppm
Remark	(Sk)
Norway - Occupational Exposure Limits	
Local name	Metanol
Grenseverdier (AN) (mg/m³)	130 mg/m³
Grenseverdier (AN) (ppm)	100 ppm
Remark	H: Kjemikalier som kan tas opp gjennom huden; E: EU har en veiledende grenseverdi og/eller anmerkning for stoffet.
Regulatory reference	FOR-2021-06-28-2248
Switzerland - Occupational Exposure Limits	
VME [mg/m³]	260 mg/m³
MAK (ppm)	200 ppm 30 ppm (urina; in caso di esposizione per molto tempo/fine dell'esposizione / del turno)
KZGW (mg/m³)	1040 mg/m³ max. 4x15 min./turno
KZGW (ppm)	800 ppm max. 4x15 min./turno
USA - ACGIH® - Threshold Limit Values	
Local name	Methanol
ACGIH TWA (mg/m³)	262 mg/m³
ACGIH® TLV® TWA	200 ppm
ACGIH STEL (mg/m³)	327 mg/m³
ACGIH® TLV® STEL	250 ppm
Remark (ACGIH®)	TLV® Basis: Headache; eye dam; dizziness; nausea. Notations: Skin; BEI
Regulatory reference	ACGIH 2022
USA - ACGIH® - Biological Exposure Indices	
Local name	METHANOL
BEI	15 mg/l Parameter: Methanol - Medium: urine - Sampling time: End of shift - Notations: B, Ns
Regulatory reference	ACGIH 2022
Acetaldehyde; ethanal (75-07-0)	
Austria - Occupational Exposure Limits	
MAK [mg/m³]	90 mg/m³
MAK (OEL TWA)	50 ppm
MAK Short time value [mg/m³]	90 mg/m³
MAK Short time value [ppm]	50 ppm
Remark (AT)	(gemessen als Momentanwert), (IIIB)
Czech Republic - Occupational Exposure Limits	
Local name	Acetaldehyd (Ethanal)
Expoziční limity (PEL) (mg/m³)	50 mg/m³
Expoziční limity (PEL) (ppm)	27 ppm

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Acetaldehyde; ethanal (75-07-0)	
Expoziční limity (NPK-P) (mg/m³)	100 mg/m³
Expoziční limity (NPK-P) (ppm)	55 ppm
Regulatory reference	Nářízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Acetaldehyd
Loftværdi (OEL C)	45 mg/m³ 25 ppm
Remark	K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Regulatory reference	BEK nr 2203 af 29. november 2021
Finland - Occupational Exposure Limits	
Local name	Asetaldehydi
HTP-arvo (15 min)	46 mg/m³
HTP-arvo (15 min) (ppm)	25 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteistietä)
France - Occupational Exposure Limits	
Local name	Aldéhyde acétique
VME [mg/m³]	180 mg/m³
VLEP 8h (OEL TWA)	100 ppm
Note (FR)	Valeurs recommandées/admises; substance classée cancérigène de catégorie 2
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m³)	91 mg/m³
Occupational exposure limit value (ppm)	50 ppm
Peak exposure limitation factor	1;=2=(I)
Remark	AGS - Ausschuss für Gefahrstoffe; DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	ACETALDEHID
AK-érték	45 mg/m³
CK-érték	45 mg/m³
Remark	i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhámat); 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	
OEL (8 hours ref) (mg/m³)	45 mg/m³
OEL (8 hours ref) (ppm)	25 ppm
OEL (15 min ref) (mg/m3)	45 mg/m³

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Acetaldehyde; ethanal (75-07-0)	
OEL (15 min ref) (ppm)	25 ppm
Latvia - Occupational Exposure Limits	
Local name	Acetaldehīds (etanāls)
OEL TWA	5 mg/m³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
Lithuania - Occupational Exposure Limits	
IPRV (mg/m³)	45 mg/m³
IPRV (OEL TWA)	25 ppm
TPRV (mg/m³)	90 mg/m³
TPRV (ppm)	50 ppm
Netherlands - Occupational Exposure Limits	
Local name	Aceetaldehyde
Grenswaarde TGG 8H (mg/m³)	37 mg/m³
Grenswaarde TGG 15MIN (mg/m³)	92 mg/m³
Regulatory reference	Arbeidsomstandighedenregeling 2022
Poland - Occupational Exposure Limits	
Local name	Acetaldehyd (aldehyd octowy)
NDS (mg/m³)	5 mg/m³
NDSP (mg/m³)	45 mg/m³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Acetaldeído
OEL C	25 mg/m³
Remark	A2 (Agente carcinogénico confirmado nos animais de laboratório con relevância desconhecida no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Acetaldehyd (etanál)
NPHV (priemerná) (mg/m³)	91 mg/m³
NPHV (priemerná) (ppm)	50 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	acetaldehyd (etanal)
OEL TWA	91 mg/m³
	50 ppm
OEL STEL	91 mg/m³
	50 ppm
Remark	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021

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Acetaldehyde; ethanal (75-07-0)	
Spain - Occupational Exposure Limits	
Local name	Acetaldehído
VLA-EC (mg/m³)	46 mg/m³
VLA-EC (ppm)	25 ppm
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT
Sweden - Occupational Exposure Limits	
Local name	Acetaldehyd
Nivågränsvärde (NVG) (mg/m³)	45 mg/m³
Nivågränsvärde (NVG) (ppm)	25 ppm
Kortidsvärde (KTV) (mg/m³)	90 mg/m³
Kortidsvärde (KTV) (ppm)	50 ppm
Remark	C (Ämnet är cancerframkallande. Risk för cancer finns även vid annan exponering än via inandning. För vissa cancerframkallande ämnen som inte har gränsvärden gäller förbud eller tillståndskrav enligt föreskrifterna om kemiska arbetsmiljörisker); V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m³)	37 mg/m³
WEL TWA (ppm)	20 ppm
WEL STEL (mg/m³)	92 mg/m³
WEL STEL (OEL STEL) [ppm]	50 ppm
Norway - Occupational Exposure Limits	
Local name	Acetaldehyd
Grenseverdier (AN) (mg/m³)	45 mg/m³
Grenseverdier (AN) (ppm)	25 ppm
Remark	K: Kjemikalier som skal betraktes som kreftfremkallende.
Regulatory reference	FOR-2021-06-28-2248
Switzerland - Occupational Exposure Limits	
VME [mg/m³]	90 mg/m³
MAK (ppm)	50 ppm
KZGW (mg/m³)	90 mg/m³
KZGW (ppm)	50 ppm
USA - ACGIH® - Threshold Limit Values	
Local name	Acetaldehyde
ACGIH® TLV® C	45 mg/m³ 25 ppm
Remark (ACGIH®)	TLV® Basis: Eye & URT irr. Notations: A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2022

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Ethylene oxide (75-21-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethylene oxide
IOEL TWA	1.8 mg/m³ (BOEL)
Notes	Skin (Substantial contribution to the total body burden via dermal exposure possible)
Regulatory reference	DIRECTIVE (EU) 2019/130 (amending Directive 2004/37/EC)
EU - Binding Occupational Exposure Limit (BOEL)	
Local name	Ethylene oxide
BOEL TWA	1.8 mg/m³
	1 ppm
Notes	Skin (Substantial contribution to the total body burden via dermal exposure possible)
Regulatory reference	DIRECTIVE (EU) 2019/130 (amending Directive 2004/37/EC)
Austria - Occupational Exposure Limits	
MAK [mg/m³]	2 mg/m³ (H, II A2)
MAK (OEL TWA)	1 ppm (H, II A2)
MAK Short time value [mg/m³]	8 mg/m³ max. 4x15 min./Schicht, (H, II A2)
MAK Short time value [ppm]	4 ppm max. 4x15 min./Schicht, (H, II A2)
Belgium - Occupational Exposure Limits	
Limit value [mg/m³]	1.8 mg/m³
Limit value [ppm]	1 ppm
Remark (BE)	c
Czech Republic - Occupational Exposure Limits	
Local name	Ethylenoxid (Oxiran)
Expoziční limity (PEL) (mg/m³)	1 mg/m³
Expoziční limity (PEL) (ppm)	0.55 ppm
Expoziční limity (NPK-P) (mg/m³)	3 mg/m³
Expoziční limity (NPK-P) (ppm)	1.64 ppm
Remark	B - u látky je zaveden biologický expoziční test (BET) v moči nebo krvi, D - při expozici se významně uplatňuje pronikání faktoru kůží, I - dráždí sliznice (oči, dýchací cesty) resp. kůží, K - karcinogen kategorie 1A a 1B (s větou H350, H350I), M - mutagen v zárodečných buňkách kategorie 1A a 1B (s větou H340), P - u látky nelze vyloučit závažné pozdní účinky (s větou H372, H373), T - toxická pro reprodukci kategorie 1A a 1B (s větou H360 včetně příslušných kódů).
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 330/2023 Sb.)
Czech Republic - Biological limit values	
Local name	Ethylenoxid (Oxiran)
BLV	0.3 µg/g Ukazatel: N-(2-Hydroxyethyl)valin v globinu - Biologicky vzorek: krvi - Doba odběru: nerozhoduje 1.9 Ukazatel: N-(2-Hydroxyethyl)valin v globinu - Biologicky vzorek: krvi - Doba odběru: nerozhoduje
Regulatory reference	Vyhláška č. 107/2013 Sb. (kterou se mění vyhláška č. 432/2003 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Ethylenoxid (1,2-Epoxyethan; Oxiran; T-gas)

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Ethylene oxide (75-21-8)	
Grænseværdi (8 timer) (mg/m³)	1.8 mg/m³
Grænseværdi (8 timer) (ppm)	1 ppm
Grænseværdi (STEL) (mg/m³)	3.6 mg/m³
Grænseværdi (STEL) (ppm)	2 ppm
Remark	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden); K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Regulatory reference	BEK nr 291 af 19/03/2024
Finland - Occupational Exposure Limits	
Local name	Etyleenioksidi
HTP-arvo (8h) (mg/m³)	1.8 mg/m³ (Työssä tapahtuvan altistumisen sitovat raja-arvot)
HTP-arvo (8h) (ppm)	1 ppm (Työssä tapahtuvan altistumisen sitovat raja-arvot)
Remark	Iho
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Oxyde d'éthylène
VME [mg/m³]	1.8 mg/m³
VLEP 8h (OEL TWA)	1 ppm
Note (FR)	Valeurs réglementaires contraignantes. Risque de pénétration percutanée, Cancérogène de catégorie 1B, Mutagène de catégorie 1B, Toxique pour la reproduction de catégorie 1B
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849)
Hungary - Occupational Exposure Limits	
Local name	ETILÉN-OXID
AK-érték	1.8 mg/m³
Remark	k(1B) (rákkeltő), i (íngerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármat), sz (Túlérzékenységet okozó (szenzibilizáló) tulajdonságú anyag. Az anyagra érzékeny egyénekben „túlérzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szervet/szervrendszert károsító megbetegedést okozhat), b (Bőrön át is felszívódik); EU6 (2019/130 EU irányelvben közölt érték); T (Azok az anyagok, amelyek egészségkárosító hatása TARTÓS expozíciót követően jelentkezik)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m³)	10 mg/m³
OEL (8 hours ref) (ppm)	5 ppm
Italy - Occupational Exposure Limits	
Local name	Ossido di etilene
OEL TWA	1.8 mg/m³
	1 ppm
Remark	Cute
Regulatory reference	Allegato XLIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.

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Ethylene oxide (75-21-8)	
Latvia - Occupational Exposure Limits	
Local name	Etilēnoksīds (oksirāns)
OEL TWA	1 mg/m³
OEL TWA (ppm)	0.55 ppm
Remark	Āda. Carc. 1B; Muta. 1B; Repr. 1B
Regulatory reference	Ministru kabineta 2008. gada 29. septembra noteikumi Nr. 803 (Grozījumi Ministru kabineta 2024. gada 26. martā noteikumiem Nr. 190).
Lithuania - Occupational Exposure Limits	
IPRV (mg/m³)	2 mg/m³
IPRV (OEL TWA)	1 ppm
TPRV (mg/m³)	9 mg/m³
TPRV (ppm)	5 ppm
Netherlands - Occupational Exposure Limits	
Local name	Ethyleenoxide
Grenswaarde TGG 8H (mg/m³)	0.84 mg/m³
TGG-8u (OEL TWA)	0.46 ppm
Remark	Kankerverwekkende stof. H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een H-aanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.
Regulatory reference	Arbeidsomstandighedenregeling 2024
Poland - Occupational Exposure Limits	
Local name	Epoksyetan
NDS (mg/m³)	1 mg/m³
Remark	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286 wraz z późn. zm.
Portugal - Occupational Exposure Limits	
Local name	Óxido de etileno
OEL TWA	1 ppm
Remark	A2 (Agente carcinogénico confirmado nos animais de laboratório con relevância desconhecida no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Etylénoxid (oxirán)
NPHV (priemerná) (mg/m³)	1.8 mg/m³ (TSH)
NPHV (priemerná) (ppm)	1 ppm (TSH)
Remark	Kategória karcinogénov 1B – Pravdepodobný karcinogén; Kategória mutagénov 1B – Mutagén cicavčích zárodočných buniek; K – prienik cez kožu: Niektoré látky môžu prenikat' ľahko cez kožu a spôsobovať smrteľné otravy často bez varovných príznakov (napríklad anilín, nitrobenzén, nitroglykol, fenoly a podobne).

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Ethylene oxide (75-21-8)	
Regulatory reference	Nariadenie vlády č. 356/2006 Z. z. (121/2024 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	etilen oksid (oksiran)
OEL TWA	1.8 mg/m³ 1 ppm
OEL STEL	8 mg/m³ 4 ppm
Remark	Rakotvorne snovi – kategorija 1B, Mutagene snovi za zarodne celice – kategorija 1B. EU, K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), BAT (Biološka mejna vrednost), EKA (Zveza med koncentracijo rakotvornih snovi v zraku na delovnem mestu in količino snovi in/ali njenih metabolitov v organizmu)
Regulatory reference	Uradni list RS, št. 29/2024 z dne 4.4.2024 - Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti rakotvornim ali mutagenim snovem
Slovenia - Biological limit values	
Local name	etilen oksid
BLV	3900 pmol/g Globin Parameter: N-(2-hidroksietil)valin - Biološki vzorec: eritrocitna frakcija celotne krvi - Čas vzorčenja: po najmanj 3 mesečni izpostavljenosti
Remark	BAT vrednosti za rakotvorne ali mutagene snovi
Regulatory reference	Uradni list RS, št. 29/2024 z dne 4.4.2024 - Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti rakotvornim ali mutagenim snovem
Spain - Occupational Exposure Limits	
Local name	Óxido de etileno
VLA-ED (mg/m³)	1.8 mg/m³
VLA-ED (ppm)	1 ppm
Notes	C1B (Supuesto carcinógeno para el hombre), M1B (Sustancias de las que se considera que inducen mutaciones hereditarias en las células germinales humanas), r (Esta sustancia tiene establecidas restricciones a la fabricación, la comercialización o el uso en los términos especificados en el "Reglamento (CE) nº 1907/2006 sobre Registro, Evaluación, Autorización y Restricción de sustancias y preparados químicos" (REACH) de 18 de diciembre de 2006 (DOUE L 369 de 30 de diciembre de 2006). Las restricciones de una sustancia pueden aplicarse a todos los usos o sólo a usos concretos. El anexo XVII del Reglamento REACH contiene la lista de todas las sustancias restringidas y especifica los usos que se han restringido).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2024. INSHT
Sweden - Occupational Exposure Limits	
Local name	Etylenoxid
Nivågränsvärde (NVG) (mg/m³)	1.8 mg/m³
Nivågränsvärde (NVG) (ppm)	1 ppm
Kortidsvärde (KTV) (mg/m³)	9 mg/m³
Kortidsvärde (KTV) (ppm)	5 ppm
Remark	C (Ämnet är cancerframkallande. Risk för cancer finns även vid annan exponering än via inandning. För vissa cancerframkallande ämnen som inte har gränsvärden gäller förbud eller tillståndskrav enligt föreskrifterna om kemiska arbetsmiljörisker); 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)

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Ethylene oxide (75-21-8)	
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m³)	9.2 mg/m³
WEL TWA (ppm)	5 ppm
WEL STEL (OEL STEL)*	27.6 mg/m³
	15 ppm
Remark	(Carc)
Norway - Occupational Exposure Limits	
Local name	Etylenoksid
Grenseverdier (AN) (mg/m³)	1.8 mg/m³
Grenseverdier (AN) (ppm)	1 ppm
Remark	H: Kjemikalier som kan tas opp gjennom huden; K: Kjemikalier som skal betraktes som kreftfremkallende; G: EU har fastsatt en bindende grenseverdi og/eller anmerkning for stoffet.
Regulatory reference	FOR-2023-12-18-2278
Switzerland - Occupational Exposure Limits	
VME [mg/m³]	2 mg/m³
MAK (ppm)	1 ppm
USA - ACGIH® - Threshold Limit Values	
Local name	Ethylene oxide
ACGIH TWA (mg/m³)	1.8 mg/m³
ACGIH® TLV® TWA	1 ppm
Remark (ACGIH®)	TLV® Basis: Cancer; CNS impair. Notations: A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2023
USA - ACGIH® - Biological Exposure Indices	
Local name	ETHYLENE OXIDE
BEI	5000 pmol/g Globin Parameter: N-(2-hydroxyethyl)valine (HEV) - Medium: hemoglobin adducts - Sampling time: Not critical - Notations: Ns 5 µg/g creatinine Parameter: S-(2-hydroxyethyl)mercapturic acid (HEMA) - Medium: urine - Sampling time: End of shift - Notations: Pop, Ns
Remark	The value of HEV hemoglobin adducts applies to workers having representative Ethylene oxide exposure during the previous 120 days
Regulatory reference	ACGIH 2023

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.

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:
Industrial and professional. Perform risk assessment prior to use. Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:
Wear recommended personal protective equipment. Avoid all unnecessary exposure.

8.2.2.1. Eye and face protection

Eye protection:
Splash goggles. face shield. EN 166.

8.2.2.2. Skin protection

Skin and body protection:
Long sleeved protective clothing.

Hand protection:
Wear suitable gloves resistant to chemical penetration. VITON gloves. Nitrile rubber gloves. EN 374.

8.2.2.3. Respiratory protection

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. Use an approved respirator equipped with oil/mist cartridges. EN 136/140.

8.2.2.4. Thermal hazards
No additional information available.

8.2.3. Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment.

Other information:
Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless
Appearance	: Liquid
Odour	: Citrus
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Flammable liquid and vapour
Explosive properties	: Product is not explosive
Oxidising properties	: No oxidizing properties
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: 48 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 7.5 – 9
Viscosity, kinematic	: Not available
Solubility	: Insoluble in water
Log Kow	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 0.833

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Relative vapour density at 20°C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 94 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition. Sparks. Direct sunlight.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

May release flammable gases. Fumes. Carbon monoxide. Carbon dioxide.

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)

1-propoxypropan-2-ol (1569-01-3)	
LD50 Oral rat	2490 mg/kg female; 4330 mg/kg male
LD50 Dermal rabbit	3775 mg/kg male; 4330 mg/kg female
Alcohols, C9-11, Ethoxylated (68439-46-3)	
LD50 Oral rat	1378 mg/kg
LD50 Dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 Dermal rabbit	> 2 g/kg
LC50 Inhalation rat	> 1.6 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
Distillates (petroleum), hydrotreated light (64742-47-8)	
LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rabbit	> 2000 mg/kg
LC50 Inhalation rat (dust/mist)	> 5.28 mg/l/4h

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(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
LD50 Oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 Oral	> 2000 mg/kg
LD50 Dermal rabbit	> 5000 mg/kg
LC50 Inhalation rat	> 5.43 mg/l
Glycerol (glycerin, glycerine) (56-81-5)	
LD50 Oral rat	27200 mg/kg bodyweight Animal: rat, Animal sex: female
LD50 Oral	18300 mg/kg rat
LD50 Dermal rabbit	> 10000 mg/kg
LC50 Inhalation rat	5.85 mg/l air Animal: rat
LC50 Inhalation rat (vapours)	> 2.75 mg/l Source: ECHA
Diethanolamine (111-42-2)	
LD50 Oral rat	1600 mg/kg Source: ECHA
Methanol (67-56-1)	
LD50 Oral rat	100 mg/kg Source: National Institute of Environmental Research NCIS
LD50 Dermal rabbit	300 mg/kg Source: ECHA
LC50 Inhalation rat	43.68 mg/l 6 h
Acetaldehyde; ethanal (75-07-0)	
LD50 Oral rat	661 mg/kg
LD50 Oral	1930 mg/kg rat
LD50 Dermal rat	3540 mg/kg
LD50 Dermal rabbit	3540 mg/kg Source: ECHA
LC50 Inhalation rat [ppm]	13300 ppm/4h
Ethylene oxide (75-21-8)	
LD50 Oral rat	330 mg/kg bodyweight
LD50 Oral	270 mg/kg bodyweight Animal: guinea pig, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 190 - 380
LC50 Inhalation rat [ppm]	1741 ppm/4h
Skin corrosion/irritation	: Causes skin irritation. pH: 7.5 – 9
Additional information	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage. pH: 7.5 – 9
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
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)
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
IARC group	3 - Not classifiable
Diethanolamine (111-42-2)	
IARC group	2B - Possibly carcinogenic to humans

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Acetaldehyde; ethanal (75-07-0)	
IARC group	2B - Possibly carcinogenic to humans,1 - Carcinogenic to humans
Ethylene oxide (75-21-8)	
IARC group	1 - Carcinogenic to humans
Diethanolamine (111-42-2)	
NOAEL (chronic, oral, animal/male, 2 years)	64 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 451 (Carcinogenicity Studies), Remarks on results: other:
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
LOAEL (animal/male, F0/P)	500 – 600 mg/kg
LOAEL (animal/female, F0/P)	500 – 600 mg/kg
NOAEL (animal/female, F0/P)	600 mg/kg bodyweight Animal: rat, Animal sex: female
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
Methanol (67-56-1)	
STOT-single exposure	Causes damage to organs.
Acetaldehyde; ethanal (75-07-0)	
STOT-single exposure	May cause respiratory irritation.
Ethylene oxide (75-21-8)	
STOT-single exposure	May cause respiratory irritation. May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Alcohols, C9-11, Ethoxylated (68439-46-3)	
NOAEL (oral, rat, 90 days)	≥ 500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
NOAEL (subacute, oral, animal/male, 28 days)	825 mg/kg bodyweight
NOAEL (subacute, oral, animal/female, 28 days)	1650 mg/kg bodyweight
NOAEL (subchronic, oral, animal/male, 90 days)	100 – 600 mg/kg bodyweight
NOAEL (subchronic, oral, animal/female, 90 days)	100 – 600 mg/kg bodyweight
Diethanolamine (111-42-2)	
LOAEL (oral, rat, 90 days)	14 mg/kg bodyweight/day 14 mg/kg female; 25 mg/kg male
LOAEL (dermal, rat/rabbit, 90 days)	32 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.003 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Methanol (67-56-1)	
LOAEL, Oral, monkey	2340 mg/kg bw/day (3 days)
Ethylene oxide (75-21-8)	
NOAEC (inhalation, rat, gas, 90 days)	50 ppm
Affected organs	nervous system

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Aspiration hazard	: May be fatal if swallowed and enters airways.
11.2. Information on other hazards	
11.2.1. Endocrine disrupting properties	
Adverse health effects caused by endocrine disrupting properties	: 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 substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.
11.2.2. Other information	
Other information	: No additional information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

1-propoxypropan-2-ol (1569-01-3)	
LC50 fish	> 100 mg/l
EC50 crustacea	> 100 mg/l
EC50 96h algae	1273.164 mg/l Source: ECOSAR

Alcohols, C9-11, Ethoxylated (68439-46-3)	
LC50 fish	5 – 7 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 crustacea	2.5 mg/l Test organisms (species): Daphnia magna
EC50 96h algae	1.4 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)

Distillates (petroleum), hydrotreated light (64742-47-8)	
LC50 fish	2.4 mg/l Source: ECOTOX

(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
LC50 fish	0.702 mg/l
LC50 fish	702 µg/l Test organisms (species): Pimephales promelas
EC50 crustacea	0.421 mg/l
EC50 crustacea	0.51 mg/l Test organisms (species): Daphnia magna
EC50 72h algae	0.32 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h algae	0.214 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
NOEC chronic fish	0.37 mg/l
NOEC chronic crustacea	0.153 mg/l
NOEC chronic algae	0.174 mg/l

Glycerol (glycerin, glycerine) (56-81-5)	
LC50 fish	54000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)

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Glycerol (glycerin, glycerine) (56-81-5)	
LC50 fish	51000 mg/l Test organisms (species): Oncorhynchus mykiss (Rainbow trout)
Diethanolamine (111-42-2)	
LC50 fish	460 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 crustacea	30.1 mg/l Source: ECHA
EC50 crustacea	89.9 mg/l Test organisms (species): Ceriodaphnia dubia
EC50 72h algae	9.5 mg/l Source: ECHA
ErC50 algae	2.2 mg/l 96 h
LOEC (chronic)	1.56 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.78 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 1 mg/l
Methanol (67-56-1)	
LC50 fish	15400 mg/l Source: ECHA
EC50 crustacea	18260 mg/l 96 h
EC50 96h algae	22000 mg/l Source: ECHA
LOEC (chronic)	11850 mg/l 200 h Oryzias latipes
Acetaldehyde; ethanal (75-07-0)	
LC50 fish	30.8 mg/l 96 h
EC50 crustacea	48.3 mg/l 48 h
Ethylene oxide (75-21-8)	
LC50 fish	84 mg/l Test organisms (species): Pimephales promelas
EC50 crustacea	137 – 300 mg/l
EC50 96h algae	240 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
ErC50 algae	240 mg/l

12.2. Persistence and degradability

Rapid Remover Adhesive Remover	
Persistence and degradability	May cause long-term adverse effects in the environment.
1-propoxypropan-2-ol (1569-01-3)	
Persistence and degradability	Readily biodegradable.
Biodegradation	91.5 % 28 d
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
Persistence and degradability	Readily biodegradable.
Glycerol (glycerin, glycerine) (56-81-5)	
Persistence and degradability	Readily biodegradable.
Diethanolamine (111-42-2)	
Persistence and degradability	Readily biodegradable.

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Methanol (67-56-1)	
Persistence and degradability	Readily biodegradable.
Biodegradation	69 – 97 %
Acetaldehyde; ethanal (75-07-0)	
Persistence and degradability	Readily biodegradable. Not established.
Biodegradation	80 % 14 d
Ethylene oxide (75-21-8)	
Persistence and degradability	Readily biodegradable.
12.3. Bioaccumulative potential	
Rapid Remover Adhesive Remover	
Bioaccumulative potential	Not established.
1-propoxypropan-2-ol (1569-01-3)	
BCF fish	> 100 mg/l 48 h
Log Pow	0.621
Distillates (petroleum), hydrotreated light (64742-47-8)	
Log Pow	3.3 – 6 Source: IUCLID
Bioaccumulative potential	Bioaccumulative potential.
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
Bioconcentration factor (BCF REACH)	1022 estimated
Log Pow	4.38 Source: ECHA Registered substances
Log Kow	4.57
Bioaccumulative potential	Bioaccumulative potential.
Glycerol (glycerin, glycerine) (56-81-5)	
Log Pow	-1.75 Source: ECHA
Diethanolamine (111-42-2)	
Log Pow	-1.43 Source: ICSC
Bioaccumulative potential	Not expected to bioaccumulate.
Methanol (67-56-1)	
Log Pow	-0.77 Source: HSDB,CHemIDplus
Acetaldehyde; ethanal (75-07-0)	
Log Pow	-0.34 Source: ChemIDPlus
Log Kow	0.43
Bioaccumulative potential	Not established.
Ethylene oxide (75-21-8)	
Log Pow	-0.3
12.4. Mobility in soil	
1-propoxypropan-2-ol (1569-01-3)	
Mobility in soil	3

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Diethanolamine (111-42-2)	
Mobility in soil	1 – 10 Source: ECHA
Methanol (67-56-1)	
Mobility in soil	2.75 Source: HSDB

12.5. Results of PBT and vPvB assessment

Component	
1-propoxypropan-2-ol (1569-01-3)	This substance does not meet the PBT criteria of REACH regulation, annex XIII This substance does not meet the vPvB criteria of REACH regulation, annex XIII
Alcohols, C9-11, Ethoxylated (68439-46-3)	This substance does not meet the PBT criteria of REACH regulation, annex XIII This substance does not meet the vPvB criteria of REACH regulation, annex XIII
Distillates (petroleum), hydrotreated light (64742-47-8)	This substance does not meet the PBT criteria of REACH regulation, annex XIII This substance does not meet the vPvB criteria of REACH regulation, annex XIII
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	This substance does not meet the PBT criteria of REACH regulation, annex XIII This substance does not meet the vPvB criteria of REACH regulation, annex XIII
Glycerol (glycerin, glycerine) (56-81-5)	This substance does not meet the PBT criteria of REACH regulation, annex XIII This substance does not meet the vPvB criteria of REACH regulation, annex XIII
Diethanolamine (111-42-2)	This substance does not meet the PBT criteria of REACH regulation, annex XIII This substance does not meet the vPvB criteria of REACH regulation, annex XIII
Methanol (67-56-1)	This substance does not meet the PBT criteria of REACH regulation, annex XIII This substance does not meet the vPvB criteria of REACH regulation, annex XIII
Acetaldehyde; ethanal (75-07-0)	This substance does not meet the PBT criteria of REACH regulation, annex XIII This substance does not meet the vPvB criteria of REACH regulation, annex XIII
Ethylene oxide (75-21-8)	This substance does not meet the PBT criteria of REACH regulation, annex XIII This substance does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties	: 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 substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.
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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.
Waste disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Additional information	: Flammable vapours may accumulate in the container. Do not re-use empty containers. Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

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

14.1. UN number or ID number

UN-No. (ADR)	: UN 1993
UN-No. (IMDG)	: UN 1993
UN-No. (IATA)	: UN 1993
UN-No. (ADN)	: UN 1993
UN-No. (RID)	: UN 1993

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14.2. UN proper shipping name

Proper Shipping Name (ADR)	: FLAMMABLE LIQUID, N.O.S. ((R)-p-mentha-1,8-diene; d-limonene ; 1-propoxypropan-2-ol)
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S. ((R)-p-mentha-1,8-diene; d-limonene ; 1-propoxypropan-2-ol)
Proper Shipping Name (IATA)	: FLAMMABLE LIQUID, N.O.S. ((R)-p-mentha-1,8-diene; d-limonene ; 1-propoxypropan-2-ol)
Proper Shipping Name (ADN)	: FLAMMABLE LIQUID, N.O.S. ((R)-p-mentha-1,8-diene; d-limonene ; 1-propoxypropan-2-ol)
Proper Shipping Name (RID)	: FLAMMABLE LIQUID, N.O.S. ((R)-p-mentha-1,8-diene; d-limonene ; 1-propoxypropan-2-ol)
Transport document description (ADR)	: UN 1993 FLAMMABLE LIQUID, N.O.S. ((R)-p-mentha-1,8-diene; d-limonene ; 1-propoxypropan-2-ol), 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 1993 FLAMMABLE LIQUID, N.O.S. ((R)-p-mentha-1,8-diene; d-limonene ; 1-propoxypropan-2-ol), 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 1993 FLAMMABLE LIQUID, N.O.S. ((R)-p-mentha-1,8-diene; d-limonene ; 1-propoxypropan-2-ol), 3, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 1993 FLAMMABLE LIQUID, N.O.S. ((R)-p-mentha-1,8-diene; d-limonene ; 1-propoxypropan-2-ol), 3, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 1993 FLAMMABLE LIQUID, N.O.S. ((R)-p-mentha-1,8-diene; d-limonene ; 1-propoxypropan-2-ol), 3, III, ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3
	:

IMDG

Transport hazard class(es) (IMDG)	: 3
Danger labels (IMDG)	: 3
	:

IATA

Transport hazard class(es) (IATA)	: 3
Danger labels (IATA)	: 3
	:

ADN

Transport hazard class(es) (ADN)	: 3
Danger labels (ADN)	: 3
	:

RID

Transport hazard class(es) (RID)	: 3
Danger labels (RID)	: 3
	:

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14.4. Packing group

Packing group (ADR)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III
Packing group (ADN)	: III
Packing group (RID)	: III

14.5. Environmental hazards

Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: F1
Special provisions (ADR)	: 274, 601
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 30
Orange plates	:



Tunnel restriction code (ADR)	: D/E
EAC code	: •3Y

Transport by sea

Special provisions (IMDG)	: 223, 274, 955
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: A

Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3L

Inland waterway transport

Classification code (ADN)	: F1
Special provisions (ADN)	: 274, 601

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Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 0

Rail transport

Classification code (RID)	: F1
Special provisions (RID)	: 274, 601
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE4
Hazard identification number (RID)	: 30

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 substance(s) listed on REACH Annex XVII (Restriction Conditions).
Contains no substance(s) listed on the REACH Candidate List.
Contains no substance(s) listed on REACH Annex XIV (Authorisation List).
Contains substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals): Ethylene oxide (75-21-8).
Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants).
Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors).
VOC content : 94 %

15.1.2. National regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

France	
Occupational diseases	
Code	Description
RG 49	Skin disorders caused by aliphatic, alicyclic amines or ethanolamines
RG 49 BIS	Respiratory disorders caused by aliphatic amines, ethanolamines or isophoronediamine
RG 66	Occupational rhinitis and asthma
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)

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Twelfth Ordinance on the Implementation of the Federal Immission Control Act (12. BImSchV)	: Is not subject to the Major Accidents Ordinance (12. BImSchV)
Netherlands	
ABM category	: Z(2) - biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/reprotoxicity/bioaccumulative potential or toxicity)
SZW List of Carcinogenic Substances	: Amides, C8-18 and C18-unsaturated, N,N-bis(hydroxyethyl),Distillates (petroleum), hydrotreated light,Acetaldehyde; ethanal,Ethylene oxide are listed
SZW List of Mutagenic Substances	: Amides, C8-18 and C18-unsaturated, N,N-bis(hydroxyethyl),Distillates (petroleum), hydrotreated light,Ethylene oxide are listed
SZW List of Reprotoxic Substances – Breastfeeding	: None of the components are listed
SZW List of Reprotoxic Substances – Fertility	: Ethylene oxide is listed
SZW List of Reprotoxic Substances – Development	: Methanol,Ethylene oxide are listed
Denmark	
Class for fire hazard	: Class II-1
Store unit	: 5 liter
Classification remarks	: R10 <H226;H304;H315;H317;H318;H410>; Emergency management guidelines for the storage of flammable liquids must be followed
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 it. If an employee is pregnant or breastfeeding and the person in question uses or is exposed to this product at work, the employer must always carry out a risk assessment of the work. The assessment must both deal with the dangerousness of the impact and its strength and duration. The employer's decision that a pregnant or lactating woman can perform a specific work task must therefore be made in the context of her specific working conditions. See also WEA-Guideline A.1.8-7 on the working environment of pregnant and breastfeeding workers.
Switzerland	
Storage class (LK)	: LK 3 - Flammable liquids

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
CSA	Chemical safety assessment
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard

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Abbreviations and acronyms:	
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
PPE	Personal protection equipment
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TF	Technical function
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	Unique Formula Identifier

Data sources : Information from published literature and internal company data.
Other information : None.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3

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Full text of H- and EUH-statements:	
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1B	Carcinogenicity, Category 1B
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1	Flammable gases, Category 1
Flam. Liq. 1	Flammable liquids, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Muta. 1B	Germ cell mutagenicity, Category 1B
Muta. 2	Germ cell mutagenicity, Category 2
Press. Gas	Gases under pressure
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT SE 1	Specific target organ toxicity – single exposure, Category 1
STOT SE 2	Specific target organ toxicity – Single exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H220	Extremely flammable gas.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H341	Suspected of causing genetic defects.
H350	May cause cancer.

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Full text of H- and EUH-statements:		
H360Fd	May damage fertility. Suspected of damaging the unborn child.	
H370	Causes damage to organs.	
H371	May cause damage to organs.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H412	Harmful to aquatic life with long lasting effects.	
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Flam. Liq. 3	H226	On basis of test data
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Asp. Tox. 1	H304	Expert judgement
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 3	H412	Calculation method

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.