

Spray&Rinse

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 23.09.2019 Revision date: 23.09.2019 Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Trade name : Spray&Rinse
DB1043A0; DB1044A0

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

1.2.1. Relevant identified uses

Main use category : Detergents
Industrial/Professional use spec : For professional use only
Use of the substance/mixture : ERC: 8a.
PROC: 10, 11, 13, 8a.
PC: 35.
Use of the substance/mixture : Oven cleaners, Detergent for cooking surfaces

1.2.2. Uses advised against

Restrictions on use : Any use other than those identified.

1.3. Details of the supplier of the safety data sheet

UNOX SpA
VIA MAJORANA ,22
35010 Cadoneghe - Italy
T +39 049 86.57.511 - F +39 049 86.57.555
det.rinse@unox.com

1.4. Emergency telephone number

Emergency number : Verisk-3E
Tel. (+)1 760 476 3961
Tel. (+)0-800-680-0425 (only UK)
Access code: 334577

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 1 H318
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) : Danger
Hazardous ingredients : 2-aminoethanol; alpha-Undecyl-omega-hydroxypoly(oxy-1,2-ethanediyl), branched and linear; Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(hexyloxy)
Hazard statements (CLP) : H315 - Causes skin irritation.
H318 - Causes serious eye damage.
Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Extra phrases : Ingredients (Regulation n 648/2004): < 5% anionic surfactants; 5 -15 % non-ionic surfactants; perfumes, Benzyl Benzoate, Limonene; preservation agents, phenoxyethanol

2.3. Other hazards

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]
(2-methoxymethylethoxy)propanol	(CAS-No.) 34590-94-8 (EC-No.) 252-104-2 (REACH-no) 01-2119450011-60	1 - 10	Not classified
2-aminoethanol; ethanalamine	(CAS-No.) 141-43-5 (EC-No.) 205-483-3 (EC Index-No.) 603-030-00-8 (REACH-no) 01-2119486455-28	1 - 4,5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
alpha-Undecyl-omega-hydroxypoly(oxy-1,2-ethanediyl), branched and linear	(CAS-No.) 127036-24-2 (EC-No.) 603-182-5 (REACH-no) Exempted (Polymer)	1 - 4,5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
N,N-dimethyl-9-Decenamide	(CAS-No.) 1356964-77-6 (EC-No.) 806-919-0 (REACH-no) 01-2120058432-61	1 - 2	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(hexyloxy)	(CAS-No.) 105391-15-9 (EC-No.) 600-651-6 (REACH-no) Exempted (Polymer)	1 - 2	Skin Irrit. 2, H315 Eye Dam. 1, H318

Specific concentration limits:

Name	Product identifier	Specific concentration limits
2-aminoethanol; ethanalamine	(CAS-No.) 141-43-5 (EC-No.) 205-483-3 (EC Index-No.) 603-030-00-8 (REACH-no) 01-2119486455-28	(5 =<C < 100) STOT SE 3, H335

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention immediately.
First-aid measures after skin contact : Immediately rinse with plenty of water (for at least 15 minutes). Remove contaminated clothing immediately and dispose of safely. Wash contaminated clothing before reuse. Obtain medical attention if irritation persists.
First-aid measures after eye contact : In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye. Immediately get medical attention.
First-aid measures after ingestion : Get medical advice/ attention.Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice

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

Symptoms/effects after skin contact : May cause skin dryness or cracking. skin irritation and erythema. Oedema.
Symptoms/effects after eye contact : Causes serious eye damage. This product may cause serious ocular lesions, irreversible eye coloration. Corneal opacity. Iris lesions.
Symptoms/effects after ingestion : May cause irritation to the digestive tract. stomach pain. Nausea. Digestive disorder.

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

Keep under medical supervision for at least 48 hours. Keep the safety data sheet of the preparation or, failing that, the label available for the medical personnel.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : carbon dioxide (CO2), dry chemical powder, foam. Water spray.
Unsuitable extinguishing media : None known.

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5.2. Special hazards arising from the substance or mixture

Fire hazard	: On burning: release of (highly) toxic gases/vapours.
Explosion hazard	: None known.
Hazardous decomposition products in case of fire	: Hazardous combustion products. On combustion forms: carbon oxides (CO and CO ₂).

5.3. Advice for firefighters

Precautionary measures fire	: Evacuate the personnel away from the fumes.
Firefighting instructions	: Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system.
Protective equipment for firefighters	: Extra personal protection: complete protective clothing including self-contained breathing apparatus. Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters. Boots. HO A29 & A30. Container device with compressed air (DIN EN 137).
Other information	: Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: Wear personal protection equipment. Do not attempt to take action without suitable protective equipment. Concerning personal protective equipment to use, see section 8.
Emergency procedures	: Immediately contact emergency personnel. Eliminate all ignition sources if safe to do so. Spilled material may present a slipping hazard. Stop leak if safe to do so.

6.1.2. For emergency responders

Protective equipment	: Wear suitable protective clothing, gloves and eye/face protection. Do not attempt to take action without suitable protective equipment. In presence of product's residue, total impervious protective suits, gloves, and boots must be worn.
Emergency procedures	: Evacuate unnecessary personnel. Eliminate all ignition sources if safe to do so. Spilled material may present a slipping hazard. Avoid inhalation of vapours. Ventilate affected area. Consult an expert.

6.2. Environmental precautions

Avoid release to the environment. Avoid sub-soil penetration. Relevant water authorities should be notified of any large spillage to water course or drain.

6.3. Methods and material for containment and cleaning up

For containment	: Stop leak if safe to do so. Recover small spills with a suitable absorbent, like diatomaceous earth. Recover large spills by pumping (use an explosion proof or hand pump).
Methods for cleaning up	: Ventilate affected area. Wear personal protection equipment. Collect in closed containers for disposal. Consult the appropriate authorities about waste disposal. Wash contaminated area with large amounts of water.
Other information	: Do not allow uncontrolled discharge of product into the environment. Evaluate the compatibility of the container to be used, by checking section 10.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with skin and eyes. Avoid breathing mist or vapor. Keep away from sources of ignition - No smoking. Take any precaution to avoid mixing with incompatible materials. Open and handle container with care. Ensure operatives are trained to minimise exposures. Covers frequency up to: 5 days per week. Duration of use: up to 60 minutes / day. Internal use.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Provide adequate ventilation.
Storage conditions	: Store tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Heat and ignition sources	: Keep away from open flames, hot surfaces and sources of ignition.
Information on mixed storage	: Keep away from food, drink and animal feeding stuffs.
Special rules on packaging	: TRGS 510: Storage of hazardous substances in non-stationary containers. Storage class (LK). 10.

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

(2-methoxymethylethoxy)propanol (34590-94-8)

EU - Occupational Exposure Limits

Local name	(2-Methoxymethylethoxy)-propanol
IOELV TWA (mg/m ³)	308 mg/m ³
IOELV TWA (ppm)	50 ppm
Notes	Possibility of significant uptake through the skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

Austria - Occupational Exposure Limits

Local name	Dipropylenglykolmonomethylether (Isomerenmisch)
MAK (mg/m ³)	307 mg/m ³ (mixed isomers)
MAK (ppm)	50 ppm (mixed isomers)
MAK Short time value (mg/m ³)	614 mg/m ³ (isomers mixtures)
MAK Short time value (ppm)	100 ppm (isomers mixtures)
Remark (AT)	H
OEL chemical category (AT)	Skin notation
Regulatory reference	BGBl. II Nr. 186/2015

Belgium - Occupational Exposure Limits

Local name	Dipropylèneglycolmonométhyléther # Dipropyleenglycolmonomethylether
Limit value (mg/m ³)	308 mg/m ³
Limit value (ppm)	50 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, Skin notation
Regulatory reference	Koninklijk besluit/Arrêté royal 02/09/2018

Bulgaria - Occupational Exposure Limits

Local name	2-(Метоксиметилетокси)-пропанол
OEL TWA (mg/m ³)	308 mg/m ³
OEL TWA (ppm)	50 ppm
Notes	Кожа (възможна е значителна резорбция чрез кожата); • (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.73 от 4 септември 2018 г.)

Croatia - Occupational Exposure Limits

Local name	2-Metoksimetil-etoksiopropanol
GVI (granična vrijednost izloženosti) (mg/m ³)	308 mg/m ³
GVI (granična vrijednost izloženosti) (ppm)	50 ppm
Naznake (HR)	Direktiva: 2000/39/EZ. Napomena: Koža (razvrstana kao tvar koja nadražuje kožu (H315))
OEL chemical category (HR)	Skin notation
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 91/2018)

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(2-methoxymethylethoxy)propanol (34590-94-8)	
Cyprus - Occupational Exposure Limits	
OEL TWA (mg/m³)	308 mg/m³
OEL TWA (ppm)	50 ppm
OEL chemical category (CY)	Skin-potential for cutaneous absorption
Czech Republic - Occupational Exposure Limits	
Local name	(2-Methoxymethylethoxy)-propanol (technická směs isomerů)
Expoziční limity (PEL) (mg/m³)	270 mg/m³
Expoziční limity (NPK-P) (mg/m³)	550 mg/m³
Remark (CZ)	D (při expozici se významně uplatňuje pronikání látky kůží)
OEL chemical category (CZ)	Potential for cutaneous absorption
Regulatory reference	Nariadení vlády č. 361/2007 Sb. (zpracovány změny č. 246/2018 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Dipropylenglycolmethylether (Methoxypropoxypropanol)
Grænseværdie (langvarig) (mg/m³)	309 mg/m³
Grænseværdie (langvarig) (ppm)	50 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
OEL chemical category (DK)	Potential for cutaneous absorption
Regulatory reference	BEK nr 655 af 31/05/2018
Estonia - Occupational Exposure Limits	
Local name	Dipropüleenglükooli monometüüleeter (2-etoksümetüületoksü)-propanool
OEL TWA (mg/m³)	308 mg/m³
OEL TWA (ppm)	50 ppm
Remark (ET)	A (Naha kaudu kergesti absorbeeruvad ained)
OEL chemical category (ET)	Skin notation
Regulatory reference	Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293 (RT I, 30.11.2011, 5)
Finland - Occupational Exposure Limits	
Local name	(2-Metoksümetüületoksi)-propanoli
HTP-arvo (8h) (mg/m³)	310 mg/m³
HTP-arvo (8h) (ppm)	50 ppm
Huomautus (FI)	iho
OEL chemical category (FI)	Potential for cutaneous absorption
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden tutkimuskeskus)
France - Occupational Exposure Limits	
Local name	(2-méthoxyméthyléthoxy)-propanol
VME (mg/m³)	308 mg/m³
VME (ppm)	50 ppm
Note (FR)	Valeurs réglementaires contraignantes; risque de pénétration percutanée
OEL chemical category (FR)	Risk of cutaneous absorption
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	(2-Methoxymethyl-ethoxy)propanol (Isomerengemisch)
TRGS 900 Occupational exposure limit value (mg/m³)	310 mg/m³ (isomer mixture)
TRGS 900 Occupational exposure limit value (ppm)	50 ppm (isomer mixture)
TRGS 900 Limitation of exposure peaks	1(l)

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(2-methoxymethylethoxy)propanol (34590-94-8)	
TRGS 900 Remark	DFG;EU;11
TRGS 900 Regulatory reference	TRGS900
Gibraltar - Occupational Exposure Limits	
Name of agent	(2-Methoxymethylethoxy)-propanol
Eight hours mg/m3	308 mg/m³
Eight hours ppm	50 ppm
Notation	Skin
OEL chemical category (GI)	Skin notation
Regulatory reference	Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181)
Greece - Occupational Exposure Limits	
Local name	Μεθοξυμεθυλ-αιθοξυ-προπανόλη, 2-
OEL TWA (mg/m³)	600 mg/m³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m³)	900 mg/m³
OEL STEL (ppm)	150 ppm
OEL chemical category (GR)	skin - potential for cutaneous absorption
Regulatory reference	Π.Δ. 90/1999
Hungary - Occupational Exposure Limits	
Local name	(2-METOXIMETILETOXI)-PROPANOL (Dipropilēnglikol-monometil-éter)
AK-érték	308 mg/m³
Megjegyzések (HU)	EU1 (2000/39/EK irányelvben közölt érték)
Regulatory reference	25/2000. (IX. 30.) EüM–SZCSM együttes rendelet a munkahelyek kémiai biztonságáról
Ireland - Occupational Exposure Limits	
Local name	(2-Methoxymethylethoxy)-I-propanol
OEL (8 hours ref) (mg/m³)	308 mg/m³
OEL (8 hours ref) (ppm)	50 ppm
Notes (IE)	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)
OEL chemical category (IE)	Potential for cutaneous absorption
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018
Italy - Occupational Exposure Limits	
Local name	(2-metossimetiletossi)-propanolo
OEL TWA (mg/m³)	308 mg/m³
OEL TWA (ppm)	50 ppm
Notes	pelle
OEL chemical category (IT)	skin - potential for cutaneous absorption
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	Metoksipropoksi propanols (dipropilēnglikola monometilēteris, DPM)
OEL TWA (mg/m³)	308 mg/m³
OEL TWA (ppm)	50 ppm
OEL chemical category (LV)	skin - potential for cutaneous exposure
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325 (Grozījumi Ministru kabineta 2011.gada 1.februārī noteikumiem Nr.92)

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(2-methoxymethylethoxy)propanol (34590-94-8)	
Lithuania - Occupational Exposure Limits	
Local name	2-(2-metoksipropoksi)-propanolis ((2-etoksimetiletoksi)-propanolis, dipropilenglikolio monometileteris)
IPRV (mg/m³)	308 mg/m³
IPRV (ppm)	50 ppm
TPRV (mg/m³)	450 mg/m³
TPRV (ppm)	75 ppm
Remark (LT)	O (medžiaga į organizmą gali prasiskverbti pro nepažeistą odą)
OEL chemical category (LT)	Skin notation
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Luxembourg - Occupational Exposure Limits	
Local name	(2-Méthoxyméthyléthoxy)-propanol
OEL TWA (mg/m³)	308 mg/m³
OEL TWA (ppm)	50 ppm
OEL chemical category (LU)	Possibility of significant uptake through the skin
Regulatory reference	Mémorial A N° 684 de 2018
Malta - Occupational Exposure Limits	
Local name	(2-Methoxymethylethoxy)-propanol
OEL TWA (mg/m³)	308 mg/m³
OEL TWA (ppm)	50 ppm
OEL chemical category (MT)	Possibility of significant uptake through the skin
Regulatory reference	S.L.424.24 (L.N.57 of 2018)
Netherlands - Occupational Exposure Limits	
Local name	Dipropylenglycolmethylether
Grenswaarde TGG 8H (mg/m³)	300 mg/m³
Regulatory reference	Arbeidsomstandighedenregeling 2018
Poland - Occupational Exposure Limits	
Local name	(2-Metoksymetyloetoksy)propanol - mieszanina izomerów: 1-(2-metoksy-1-metyloetoksy)propan-2-ol, 1-(2-metoksy-2-metyloetoksy)propan-2-ol, 2-(2-metoksy-1-metyloetoksy)propan-1-ol
NDS (mg/m³)	240 mg/m³ (mixture of isomers: 1-(2-Methoxy-1-methylethoxy)propan-2-ol, 1-(2-Methoxy-2-methylethoxy)propan-2-ol and 2-(2-Methoxy-1-methylethoxy)propan-1-ol)
NDSch (mg/m³)	480 mg/m³ (mixture of isomers: 1-(2-Methoxy-1-methylethoxy)propan-2-ol, 1-(2-Methoxy-2-methylethoxy)propan-2-ol, 2-(2-Methoxy-1-methylethoxy)propan-1-ol)
Remark (PL)	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	2-Metoximetiletoksiopropanol (DPGME)
OEL TWA (ppm)	100 ppm
OEL STEL (ppm)	150 ppm
OEL chemical category (PT)	skin - potential for cutaneous exposure indicative limit value
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	(2-metoximetiletoksi)-propanol/Dipropilenglicol monometileter/Eter metilic al dipropilenglicolului
OEL TWA (mg/m³)	308 mg/m³

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(2-methoxymethylethoxy)propanol (34590-94-8)	
OEL TWA (ppm)	50 ppm
OEL chemical category (RO)	Skin notation
Regulatory reference	Hotărârea nr. 584/2018
Slovakia - Occupational Exposure Limits	
Local name	2-Metoxymetyl-etoxypropanol (dipropylén glykol mono-metyléter)
NPHV (priemerná) (mg/m³)	308 mg/m³
NPHV (priemerná) (ppm)	50 ppm
Upozornenie (SK)	K - znamená, že faktor môže byť ľahko absorbovaný kožou
OEL chemical category (SK)	Potential for cutaneous absorption
Regulatory reference	Nariadenie vlády č. 33/2018 Z.z.
Slovenia - Occupational Exposure Limits	
Local name	(2-metoksimetiletoksi)propanol (mešanica izomer)
OEL TWA (mg/m³)	308 mg/m³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m³)	308 mg/m³
OEL STEL (ppm)	50 ppm
Remark (SI)	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), EU
OEL chemical category (SL)	Potential for cutaneous absorption
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
Spain - Occupational Exposure Limits	
Local name	Éter metílico de dipropilenglicol
VLA-ED (mg/m³)	308 mg/m³ (indicative limit value)
VLA-ED (ppm)	50 ppm (indicative limit value)
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), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
OEL chemical category (ES)	skin - potential for cutaneous absorption
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Dipropylenglykolmonometyleter
nivågränsvärde (NVG) (mg/m³)	300 mg/m³
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m³)	450 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 (Vägledande 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-methoxymethylethoxy) propanol
WEL TWA (mg/m³)	308 mg/m³
WEL TWA (ppm)	50 ppm

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(2-methoxymethylethoxy)propanol (34590-94-8)	
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
WEL chemical category	Potential for cutaneous absorption
Regulatory reference	EH40/2005 (Third edition, 2018). HSE
Iceland - Occupational Exposure Limits	
Local name	Díprópylenglýkólmetýleter (2-metoxýmetylétoxy)
OEL (8 hours ref) (mg/m³)	300 mg/m³
OEL (8 hours 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-metoksymetyletoksy)-propanol (Dipropylenglykolmetyleter)
Grenseverdier (AN) (mg/m³)	300 mg/m³
Grenseverdier (AN) (ppm)	50 ppm
Merknader (NO)	H (Kjemikalier som kan tas opp gjennom huden); E (EU har en veiledende grenseverdi for stoffet)
OEL chemical category (NO)	Skin notation
Regulatory reference	FOR-2018-08-21-1255
Switzerland - Occupational Exposure Limits	
Local name	Oxyde de dipropylèneglycolméthyle (mélange d'isomères) / Dipropylenglykolmethylether (Isomerenmischung) [Bis-2-methoxypropylether]
MAK (mg/m³)	300 mg/m³ (aerosol, vapour)
MAK (ppm)	50 ppm (aerosol, vapour)
KZGW (mg/m³)	300 mg/m³ (aerosol, vapour)
KZGW (ppm)	50 ppm (aerosol, vapour)
Critical toxicity	VR, Yeux, Nez / AW, Auge, Nase
Remark	NIOSH
Regulatory reference	www.suva.ch, 01.07.2019
Turkey - Occupational Exposure Limits	
Local name	(2-Metoksimetiletoksi)-propanol
OEL TWA (mg/m³)	308 mg/m³
OEL TWA (ppm)	50 ppm
Comments	Deri
OEL chemical category (TR)	Skin notation
Regulatory reference	12 Ağustos 2013 Tarihi ve 28733 Sayılı Resmî Gazete

(2-methoxymethylethoxy)propanol (34590-94-8)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	65 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	310 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	37,2 mg/m³
Long-term - systemic effects, dermal	15 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	19 mg/l

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PNEC aqua (marine water)	1,9 mg/l
PNEC aqua (intermittent, freshwater)	190 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	70,2 mg/kg dwt
PNEC sediment (marine water)	7,02 mg/kg dwt
PNEC (Soil)	
PNEC soil	2,74 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	4168 mg/l
2-aminoethanol; ethanolamine (141-43-5)	
EU - Occupational Exposure Limits	
Local name	2-Aminoethanol
IOELV TWA (mg/m³)	2,5 mg/m³
IOELV TWA (ppm)	1 ppm
IOELV STEL (mg/m³)	7,6 mg/m³
IOELV STEL (ppm)	3 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
Austria - Occupational Exposure Limits	
Local name	2-Aminoethanol
MAK (mg/m³)	2,5 mg/m³
MAK (ppm)	1 ppm
MAK Short time value (mg/m³)	7,6 mg/m³
MAK Short time value (ppm)	3 ppm
Remark (AT)	max. 4x15 min./Schicht
Regulatory reference	BGBI. II Nr. 186/2015
Belgium - Occupational Exposure Limits	
Local name	Ethanolamine # Ethanolamine
Limit value (mg/m³)	2,5 mg/m³
Limit value (ppm)	1 ppm
Short time value (mg/m³)	7,6 mg/m³
Short time value (ppm)	3 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.
Regulatory reference	Koninklijk besluit/Arrêté royal 02/09/2018
Bulgaria - Occupational Exposure Limits	
Local name	Етаноламин (2-Аминоетанол)
OEL TWA (mg/m³)	2,5 mg/m³
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m³)	7,6 mg/m³
OEL STEL (ppm)	3 ppm
Notes	Кожа (възможна е значителна резорбция чрез кожата); • (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност)

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2-aminoethanol; ethanolamine (141-43-5)	
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.73 от 4 септември 2018 г.)
Croatia - Occupational Exposure Limits	
Local name	2-aminoetanol; etanolamin
GVI (granična vrijednost izloženosti) (mg/m ³)	2,5 mg/m ³
GVI (granična vrijednost izloženosti) (ppm)	1 ppm
KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	7,6 mg/m ³
KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	3 ppm
Naznake (HR)	Direktiva: 2006/15/EZ. Napomena: Koža (razvrstana kao tvar koja nadražuje kožu (H315))
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	2-Aminoethan-1-ol (Ethanolamin)
Expoziční limity (PEL) (mg/m ³)	2,5 mg/m ³
Expoziční limity (NPK-P) (mg/m ³)	7,5 mg/m ³
Remark (CZ)	I (dráždí sliznice (oči, dýchací cesty) resp. kůži)
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zpracovaný změny č. 246/2018 Sb.)
Denmark - Occupational Exposure Limits	
Local name	2-Aminoethanol (Ethanolamin)
Grænseværdie (langvarig) (mg/m ³)	2,5 mg/m ³
Grænseværdie (langvarig) (ppm)	1 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 655 af 31/05/2018
Estonia - Occupational Exposure Limits	
Local name	2-aminoetanol
OEL TWA (mg/m ³)	2,5 mg/m ³
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m ³)	7,6 mg/m ³
OEL STEL (ppm)	3 ppm
Remark (ET)	A (Naha kaudu kergesti absorbeeruvad ained)
Regulatory reference	Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293 (RT I, 30.11.2011, 5)
Finland - Occupational Exposure Limits	
Local name	2-Aminoetanoli
HTP-arvo (8h) (mg/m ³)	2,5 mg/m ³
HTP-arvo (8h) (ppm)	1 ppm
HTP-arvo (15 min)	7,6 mg/m ³
HTP-arvo (15 min) (ppm)	3 ppm
Huomautus (FI)	iho
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Ethanolamine (2-Aminoéthanol)
VME (mg/m ³)	2,5 mg/m ³
VME (ppm)	1 ppm

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2-aminoethanol; ethanolamine (141-43-5)	
VLE (mg/m ³)	7,6 mg/m ³
VLE (ppm)	3 ppm
Note (FR)	Valeurs réglementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	2-Amino-ethanol
TRGS 900 Occupational exposure limit value (mg/m ³)	0,5 mg/m ³
TRGS 900 Occupational exposure limit value (ppm)	0,2 ppm
TRGS 900 Limitation of exposure peaks	1(l)
TRGS 900 Remark	DFG;EU;Y;Sh;H;11
TRGS 900 Regulatory reference	TRGS900
Gibraltar - Occupational Exposure Limits	
Name of agent	2-Aminoethanol
Eight hours mg/m ³	2,5 mg/m ³
Eight hours ppm	1 ppm
Short-term mg/m ³	7,6 mg/m ³
Short-term ppm	3 ppm
Notation	Skin
Regulatory reference	Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181)
Greece - Occupational Exposure Limits	
Local name	Αιθανολαμίνη (2-αμινοαιθανόλη)
OEL TWA (mg/m ³)	2,5 mg/m ³
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m ³)	7,6 mg/m ³
OEL STEL (ppm)	3 ppm
Regulatory reference	Π.Δ. 162/2007
Hungary - Occupational Exposure Limits	
Local name	2-AMINOETANOL
AK-érték	2,5 mg/m ³
CK-érték	7,6 mg/m ³
Megjegyzések (HU)	b (Bőrön át is felszívódik); EU2 (2006/15/EK irányelvben közzölt érték)
Regulatory reference	25/2000. (IX. 30.) EüM–SZCSM együttes rendelet a munkahelyek kémiai biztonságáról
Ireland - Occupational Exposure Limits	
Local name	2-Aminoethanol
OEL (8 hours ref) (mg/m ³)	2,5 mg/m ³
OEL (8 hours ref) (ppm)	1 ppm
OEL (15 min ref) (mg/m ³)	7,6 mg/m ³
OEL (15 min ref) (ppm)	3 ppm
Notes (IE)	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018
Italy - Occupational Exposure Limits	
Local name	2-Amminoetanolo
OEL TWA (mg/m ³)	2,5 mg/m ³

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2-aminoethanol; ethanolamine (141-43-5)	
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m ³)	7,6 mg/m ³
OEL STEL (ppm)	3 ppm
Notes	pelle
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	2-Aminoetanols (monoetanolamīns)
OEL TWA (mg/m ³)	0,5 mg/m ³
OEL TWA (ppm)	0,2 ppm
OEL STEL (mg/m ³)	7,6 mg/m ³
OEL STEL (ppm)	3 ppm
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325
Lithuania - Occupational Exposure Limits	
Local name	2-aminoetanolis (etanolaminas)
IPRV (mg/m ³)	2,5 mg/m ³
IPRV (ppm)	1 ppm
TPRV (mg/m ³)	7,6 mg/m ³
TPRV (ppm)	3 ppm
Remark (LT)	O (medžiaga į organizmą gali prasiskverbti pro nepažeistą odą)
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Luxembourg - Occupational Exposure Limits	
Local name	2-aminoéthanol
OEL TWA (mg/m ³)	2,5 mg/m ³
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m ³)	7,6 mg/m ³
OEL STEL (ppm)	3 ppm
Regulatory reference	Mémorial A N° 684 de 2018
Malta - Occupational Exposure Limits	
Local name	2-Aminoethanol
OEL TWA (mg/m ³)	2,5 mg/m ³
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m ³)	7,6 mg/m ³
OEL STEL (ppm)	3 ppm
Regulatory reference	S.L.424.24 (L.N.57 of 2018)
Netherlands - Occupational Exposure Limits	
Local name	2-Aminoethanol
Grenswaarde TGG 8H (mg/m ³)	2,5 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	7,6 mg/m ³
Remark (MAC)	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 2018
Poland - Occupational Exposure Limits	
Local name	2-Aminoethanol

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2-aminoethanol; ethanolamine (141-43-5)	
NDS (mg/m ³)	2,5 mg/m ³
NDSCh (mg/m ³)	7,5 mg/m ³
Remark (PL)	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	Etanolamina (2-Aminoetanol)
OEL TWA (ppm)	3 ppm
OEL STEL (ppm)	6 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	2-aminoetanol/Etanolamină
OEL TWA (mg/m ³)	2,5 mg/m ³
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m ³)	7,6 mg/m ³
OEL STEL (ppm)	3 ppm
Regulatory reference	Hotărârea nr. 584/2018
Slovakia - Occupational Exposure Limits	
Local name	2-Aminoetanol
NPHV (priemerná) (mg/m ³)	2,5 mg/m ³
NPHV (priemerná) (ppm)	1 ppm
OEL STEL (mg/m ³)	7,6 mg/m ³
OEL STEL (ppm)	3 ppm
Upozornenie (SK)	K - znamená, že faktor môže byť ľahko absorbovaný kožou
Regulatory reference	Nariadenie vlády č. 33/2018 Z.z.
Slovenia - Occupational Exposure Limits	
Local name	2-aminoetanol (etanolamin)
OEL TWA (mg/m ³)	2,5 mg/m ³
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m ³)	7,6 mg/m ³
OEL STEL (ppm)	3 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), EU
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
Spain - Occupational Exposure Limits	
Local name	2-Aminoetanol (Etanolamina)
VLA-ED (mg/m ³)	2,5 mg/m ³
VLA-ED (ppm)	1 ppm
VLA-EC (mg/m ³)	7,5 mg/m ³
VLA-EC (ppm)	3 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), 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

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2-aminoethanol; ethanolamine (141-43-5)	
Sweden - Occupational Exposure Limits	
Local name	Etanolamin
nivågränsvärde (NVG) (mg/m ³)	2,5 mg/m ³
nivågränsvärde (NVG) (ppm)	1 ppm
kortidsvärde (KTV) (mg/m ³)	7,5 mg/m ³
kortidsvärde (KTV) (ppm)	3 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)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
Local name	2-Aminoethanol
WEL TWA (mg/m ³)	2,5 mg/m ³
WEL TWA (ppm)	1 ppm
WEL STEL (mg/m ³)	7,6 mg/m ³
WEL STEL (ppm)	3 ppm
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Third edition, 2018). HSE
Iceland - Occupational Exposure Limits	
Local name	Etanolámín (2-aminóetanól)
OEL (8 hours ref) (mg/m ³)	2,5 mg/m ³
OEL (8 hours ref) (ppm)	1 ppm
OEL (15 min ref) (mg/m ³)	7,6 mg/m ³
OEL (15 min ref) (ppm)	3 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-aminoetanol (Etanolamin)
Grenseverdier (AN) (mg/m ³)	2,5 mg/m ³
Grenseverdier (AN) (ppm)	1 ppm
Merknader (NO)	H (Kjemikalier som kan tas opp gjennom huden); E (EU har en veiledende grenseverdi for stoffet)
Regulatory reference	FOR-2018-08-21-1255
Switzerland - Occupational Exposure Limits	
Local name	2-Aminoéthanol / 2-Aminoethanol [Ethanolamin]
MAK (mg/m ³)	5 mg/m ³
MAK (ppm)	2 ppm
KZGW (mg/m ³)	10 mg/m ³
KZGW (ppm)	4 ppm
Critical toxicity	Peau, Fatigue, Yeux / Haut, Fatigue, Auge
Notation	S / S
Remark	NIOSH
Regulatory reference	www.suva.ch, 01.07.2019
Turkey - Occupational Exposure Limits	
Local name	2-Aminoetanol

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2-aminoethanol; ethanolamine (141-43-5)	
OEL TWA (mg/m ³)	2,5 mg/m ³
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m ³)	7,6 mg/m ³
OEL STEL (ppm)	3 ppm
Comments	Deri
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	1 mg/kg bw/day
Long-term - local effects, inhalation	3.3 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	3.75 mg/kg bw/day
Long-term - systemic effects, dermal	0.24 mg/kg bw/day
Long-term - local effects, inhalation	2 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.085 mg/l
PNEC aqua (marine water)	0.0085 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.425 mg/kg ss
PNEC sediment (marine water)	0.0425 mg/kg ss
PNEC (Soil)	
PNEC soil	0.035 mg/kg dwt mg/kg ss
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l
N,N-dimethyl-9-Decenamide (1356964-77-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	5,71 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	40 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	2,857 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	10 mg/m ³
Long-term - systemic effects, dermal	2,857 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,028 mg/l
PNEC aqua (marine water)	0,0028 mg/l
PNEC aqua (intermittent, freshwater)	0,028 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1,541 mg/kg dwt
PNEC sediment (marine water)	0,1541 mg/kg dwt
PNEC (Soil)	
PNEC soil	5,3 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	2,12 mg/l

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8.2. Exposure controls

Appropriate engineering controls:

The use of appropriate technical measures should always take priority over personal protection equipment. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. The individual protection devices must bear the CE marking that certifies their compliance with the regulations in force. A washing facility/water for eye and skin cleaning purposes should be present.

Personal protective equipment:

Safety glasses. Gloves. Protective clothing. An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits.

Hand protection:

Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Category 3. For definitive choice of gloves material consider: compatibility, degradation, breakthrough time and permeation. Work gloves wear time depends upon duration and type of wear. Wear suitable gloves (protection factor 6, permeation time > 480 minutes), material Layer thickness : Nitrile rubber. 0,35 mm. Butyl rubber. 0,55 mm. Polyvinylchloride (PVC). 0,5 mm. (protection factor 6, permeation time > 480 minutes), material

Eye protection:

Wear eye glasses with side protection according to EN 166. Do not wear contact lenses.

Skin and body protection:

Wear work clothes with long sleeves. Wear safety footwear. Category 2. The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374. EN ISO 20344. IF ON SKIN: Wash with plenty of soap and water.

Respiratory protection:

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited. If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

Personal protective equipment symbol(s):



Environmental exposure controls:

Assure that emissions are compliant with all applicable air pollution control regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless, straw yellow.
Odour	: characteristic.
Odour threshold	: No data available
pH	: 10,5 - 11
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: 95 °C Method:ASTM D93
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapour pressure	: 0,037 kPa @ 20 °C DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS 34590-94-8)
Relative vapour density at 20 °C	: No data available
Relative density	: 0,985 g/cm³ @ 20°C
Solubility	: Water: Soluble
Log Pow	: No data available
Viscosity, kinematic	: No data available

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Viscosity, dynamic	: No data available
Explosive properties	: Not explosive as none of the components is classified as explosive or oxidizing.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

VOC content	: 9,82 %;96,70 g/L
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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong oxidizing agents. Acids. Steel. Copper and its alloys.

10.6. Hazardous decomposition products

On combustion or on thermal decomposition (pyrolysis) releases : Carbon oxides (CO, CO2). Nitrous gasses. Nitric oxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l/4h

(2-methoxymethylethoxy)propanol (34590-94-8)

LD50 oral rat	5660 mg/kg
LD50 dermal rabbit	9500 mg/kg

2-aminoethanol; ethanolamine (141-43-5)

LD50 oral rat	> 2100 mg/kg
LD50 dermal rabbit	> 1000 mg/kg
LC50 inhalation rat (mg/l)	> 1,3 mg/l/6 h

alpha-Undecyl-omega-hydroxypoly(oxy-1,2-ethanediyl), branched and linear (127036-24-2)

LD50 oral rat	> 300 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

N,N-dimethyl-9-Decenamide (1356964-77-6)

LD50 oral rat	550 mg/kg
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Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(hexyloxy) (105391-15-9)

LD50 oral rat	> 2000 mg/kg
Skin corrosion/irritation	: Causes skin irritation. pH: 10,5 - 11

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Additional information	: (2-methoxymethylethoxy)propanol (CAS 34590-94-8): Not irritating (rabbit,OECD 404 method). 2-aminoethanol; ethanolamine (CAS 141-43-5): Causes serious skin corrosion. alpha-Undecyl-omega-hydroxypoly(oxy-1,2-ethanediyl), branched and linear (CAS127036-24-2) : Not irritating, rabbit (Supplier information). POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-(CARBOXYMETHYL)-.OMEGA.-(HEXYLOXY) (CAS 105391-15-9):Causes serious skin corrosion (Supplier information). N,N-DIMETHYL 9-DECENAMIDE (CAS 1356964-77-6): Irritating to the skin and mucous membranes (Supplier information)
Serious eye damage/irritation	: Causes serious eye damage. pH: 10,5 - 11
Additional information	: (2-methoxymethylethoxy)propanol (CAS 34590-94-8): Not irritating (J. Toxicol. Cutan. Ocul. Toxicol.2:229-242, 1984). 2-aminoethanol; ethanolamine (CAS 141-43-5): Causes serious eye damage alpha-Undecyl-omega-hydroxypoly(oxy-1,2-ethanediyl), branched and linear (CAS127036-24-2):Irreversible effects to eyes, rabbit (Supplier information). POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-(CARBOXYMETHYL)-.OMEGA.-(HEXYLOXY) (CAS 105391-15-9): Causes serious eye damage (Supplier information) N,N-DIMETHYL 9-DECENAMIDE (CAS 1356964-77-6):Irritating to eyes (Supplier information)
Respiratory or skin sensitisation	: Not classified
Additional information	: (2-methoxymethylethoxy)propanol (CAS 34590-94-8) :No sensitisation responses were observed. alpha-Undecyl-omega-hydroxypoly(oxy-1,2-ethanediyl), branched and linear (CAS127036-24-2):Skin sensitisation (Guinea Pig Maximization Test): not sensitising (Supplier information). POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-(CARBOXYMETHYL)-.OMEGA.-(HEXYLOXY) (CAS 105391-15-9): Not sensitizing (Supplier information). N,N-DIMETHYL 9-DECENAMIDE (CAS 1356964-77-6): Not sensitizing (Supplier information).
Germ cell mutagenicity	: Not classified
Additional information	: (2-methoxymethylethoxy)propanol (CAS 34590-94-8): Not mutagenic,(OECD 476 method) 2-aminoethanol; ethanolamine (CAS 141-43-5):The classification criteria are not met (Supplier information). alpha-Undecyl-omega-hydroxypoly(oxy-1,2-ethanediyl), branched and linear (CAS127036-24-2): In vitro tests did not showed any evidence of mutagenic effect (Supplier information) POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-(CARBOXYMETHYL)-.OMEGA.-(HEXYLOXY) (CAS 105391-15-9): In vivo experiments (bacteria): negative. (Supplier information) No mutagenic effect (Read-across). (Supplier information)
Carcinogenicity	: Not classified

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Additional information	: (2-methoxymethylethoxy)propanol (CAS 34590-94-8): No carcinogenic effect (OECD 453) 2-aminoethanol; ethanolamine (CAS 141-43-5): The classification criteria are not met (Supplier information). alpha-Undecyl-omega-hydroxypoly(oxy-1,2-ethanediyl), branched and linear (CAS127036-24-2): The substance is not genotoxic, no carcinogenic potential expected (supplier Supplier information) POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-(CARBOXYMETHYL)-.OMEGA.-(HEXYLOXY) (CAS 105391-15-9):No carcinogenic effect known (Supplier information) N,N-DIMETHYL 9-DECENAMIDE (CAS 1356964-77-6): Not classified as carcinogenic (supplier data).
Reproductive toxicity	: Not classified
Additional information	: (2-methoxymethylethoxy)propanol (CAS 34590-94-8): Two generation reproduction toxicity test (OECD 416 method): NOAEL F1 = 300 ppm (Inhalation) NOEL F2 = 1000 ppm 2-aminoethanol; ethanolamine (CAS 141-43-5): The substance did not cause malformations in animal experiments (Supplier information) alpha-Undecyl-omega-hydroxypoly(oxy-1,2-ethanediyl), branched and linear (CAS127036-24-2): Tests on animals did not showed any effect on fertility.No teratogenic effects on animals. (Supplier information) POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-(CARBOXYMETHYL)-.OMEGA.-(HEXYLOXY) (CAS 105391-15-9): No toxic effect for reproduction known (Supplier information)
STOT-single exposure	: Not classified
Additional information	: (2-methoxymethylethoxy)propanol (CAS 34590-94-8):On the basis of available data classification criteria are not met. 2-aminoethanol; ethanolamine (CAS 141-43-5):May cause irritation to the respiratory tract alpha-Undecyl-omega-hydroxypoly(oxy-1,2-ethanediyl), branched and linear (CAS127036-24-2): The substance is not toxic to a target organ, single exposure.
STOT-repeated exposure	: Not classified
Additional information	: (2-methoxymethylethoxy)propanol (CAS 34590-94-8): On the basis of available data classification criteria are not met. alpha-Undecyl-omega-hydroxypoly(oxy-1,2-ethanediyl), branched and linear (CAS127036-24-2):The substance is not toxic to a target organ, repeated exposure.
Aspiration hazard	: Not classified
Additional information	: (2-methoxymethylethoxy)propanol (CAS 34590-94-8): On the basis of available data classification criteria are not met. alpha-Undecyl-omega-hydroxypoly(oxy-1,2-ethanediyl), branched and linear (CAS127036-24-2):Not applicable.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

(2-methoxymethylethoxy)propanol (34590-94-8)

LC50 fish 1	> 10000 mg/l
EC50 Daphnia 1	1919 mg/l Daphnia Magna
EC50 72h algae (1)	> 969 mg/l

2-aminoethanol; ethanolamine (141-43-5)

LC50 fish 1	> 349 mg/l
EC50 Daphnia 1	> 27,04 mg/l Daphnia magna (OECD 201, part 1 static)
EC50 72h algae (1)	2,8 mg/l Selenastrum capricornutum (OECD 201).

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NOEC chronic fish	1,2 mg/l Oryzias latipes (OECD 210).
NOEC chronic crustacea	0,85 mg/l Daphnia magna (OECD 211).
NOEC chronic algae	> 2,5 mg/l

alpha-Undecyl-omega-hydroxypoly(oxy-1,2-ethanediyl), branched and linear (127036-24-2)

LC50 fish 1	> 10 mg/l Cyprinus carpio (OECD TG 203)
EC50 Daphnia 1	> 10 mg/l Daphnia magna (OECD TG 202)
EC50 72h algae (1)	> 1 mg/l (OECD TG 201)
NOEC chronic fish	> 1 mg/l
NOEC chronic crustacea	> 1 mg/l Daphnia magna

N,N-dimethyl-9-Decenamide (1356964-77-6)

LC50 fish 1	> 7,5 mg/l
EC50 Daphnia 1	2,8 Daphnia magna
NOEC chronic crustacea	0,28 mg/l Daphnia Magna
NOEC chronic algae	1,1 mg/l

Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(hexyloxy) (105391-15-9)

LC50 fish 1	> 100 OECD 203
EC50 Daphnia 1	> 100 OECD 202, Daphnia sp. Acute Immobilization Test and Reproduction Test.
EC50 72h algae (1)	> 100 mg/l OECD 201, Alga, Growth Inhibition Test

12.2. Persistence and degradability

(2-methoxymethylethoxy)propanol (34590-94-8)

Persistence and degradability	Readily biodegradable.
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2-aminoethanol; ethanolamine (141-43-5)

Persistence and degradability	Readily biodegradable.
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alpha-Undecyl-omega-hydroxypoly(oxy-1,2-ethanediyl), branched and linear (127036-24-2)

Persistence and degradability	Readily biodegradable.
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N,N-dimethyl-9-Decenamide (1356964-77-6)

Persistence and degradability	Readily biodegradable.
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Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(hexyloxy) (105391-15-9)

Persistence and degradability	Readily biodegradable in water.
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12.3. Bioaccumulative potential

2-aminoethanol; ethanolamine (141-43-5)

Log Pow	-2,3
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alpha-Undecyl-omega-hydroxypoly(oxy-1,2-ethanediyl), branched and linear (127036-24-2)

Log Pow	> 3,6 QSAR
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N,N-dimethyl-9-Decenamide (1356964-77-6)

Log Pow	3,17
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12.4. Mobility in soil

No additional information available

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12.5. Results of PBT and vPvB assessment Spray&Rinse	
Results of PBT assessment	The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Reuse or recycle following decontamination. External recovery and recycling of waste should comply with applicable local and/or national regulations. Recycling is preferred to disposal or incineration.

Sewage disposal recommendations : Land transport (ADR/RID).

Product/Packaging disposal recommendations : Dispose of this material and its container at hazardous or special waste collection point.

European List of Waste (LoW) code : 15 01 10* - packaging containing residues of or contaminated by dangerous substances
20 01 29* - detergents containing dangerous substances

HP Code : HP4 - "Irritant — skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

No supplementary information available

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

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

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

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

VOC content : 9,82 % 96,70 g/L

Directive 2012/18/EU (SEVESO III)

Seveso Additional information : None

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water (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 : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Class for fire hazard : Class III-1

Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; 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 the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

N,N-DIMETHYL 9-DECENAMIDE (CAS 1356964-77-6)

2-aminoethan-1-ol; ethanolamin (CAS 141-43-5)

Comments: This safety data sheet contains one or more Exposure Scenarios in an integrated form. Contents have been included in sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.

SECTION 16: Other information

Abbreviations and acronyms:	
SDS	Safety Data Sheet
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
vPvB	Very Persistent and Very Bioaccumulative
PBT	Persistent Bioaccumulative Toxic
CAS	CAS (Chemical Abstracts Service) number
CSR	CSR - Chemical Safety Report

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Other information : 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. It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product.

Full text of H- and EUH-statements:		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
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]:		
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method

SDS EU (REACH Annex II)

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.