

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

Product form : Mixture
Trade name : Neostrip 710
Product group : Blend

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

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Rutpen Ltd
Membury Airfield Industrial Estate Lambourn
RG17 7TJ – Berkshire
T 01488 71926
technical@rutpen.co.uk - www.rutpen.co.uk

1.4. Emergency telephone number

Emergency number : 01488 71926

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
Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 1, Sub-Category 1B	H314
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Reproductive toxicity, Category 1B	H360
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. May damage fertility or the unborn child. Harmful if swallowed. May cause respiratory irritation. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects.

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

<tx:_GHS_PICTOS> (CLP) :



Signal word (CLP) :

Contains :

Danger
N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone, 2-aminoethanol,
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., (R)-p-mentha-1,8-diene; d-limonene

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Hazard statements (CLP)	: H226 - Flammable liquid and vapour. H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation. H360 - May damage fertility or the unborn child. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P201 - Obtain special instructions before use. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.. Immediately call a doctor. 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 doctor. P308+P313 - IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

No additional information available

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]
N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone substance listed as REACH Candidate (1-Methyl-2-pyrrolidone) substance with a Community workplace exposure limit	CAS-No.: 872-50-4 EC-No.: 212-828-1 EC Index-No.: 606-021-00-7	≥ 15 – < 25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 1B, H360D STOT SE 3, H335
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	CAS-No.: 85536-14-7 EC-No.: 287-494-3	≥ 15 – < 25	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411
2-aminoethanol substance with a Community workplace exposure limit	CAS-No.: 141-43-5 EC-No.: 205-483-3 EC Index-No.: 603-030-00-8	≥ 5 – < 15	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
(R)-p-mentha-1,8-diene; d-limonene	CAS-No.: 5989-27-5 EC-No.: 227-813-5 EC Index-No.: 601-029-00-7	≥ 1 – < 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits:

Name	Product identifier	Specific concentration limits
N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone	CAS-No.: 872-50-4 EC-No.: 212-828-1 EC Index-No.: 606-021-00-7	(10 ≤ C ≤ 100) STOT SE 3, H335

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits
2-aminoethanol	CAS-No.: 141-43-5 EC-No.: 205-483-3 EC Index-No.: 603-030-00-8	(5 ≤C ≤ 100) STOT SE 3, H335

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	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

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. Dry powder. Foam. Carbon dioxide.
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5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable liquid and vapour.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapours/spray.
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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".
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6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage.
- Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.
- Hygiene measures : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ground/bond container and receiving equipment.
- Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone (872-50-4)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	n-Methyl-2-pyrrolidone
IOEL TWA	40 mg/m ³
IOEL STEL	80 mg/m ³
IOEL STEL [ppm]	20 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2009/161/EU
EU - Biological Limit Value (BLV)	
Local name	N-Methyl-2-pyrrolidone

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N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone (872-50-4)	
BLV	20 mg/g creatinine Parameter: 2-hydroxy-N-methylsuccinimide - Medium: urine - Sampling time: morning-after-shift ; 18 hours 70 mg/g creatinine Parameter: 5-hydroxy-N-methyl-2-pyrrolidone - Medium: urine - Sampling time: 2-4 hours after the end of exposure/shift
Regulatory reference	SCOEL List of recommended health-based BLVs and BGVs
Albania - Occupational Exposure Limits	
Local name	n-Metil piroolidon-2
OEL TWA	40 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	80 mg/m ³
OEL STEL [ppm]	20 ppm
Remark	Lëkurë (tregon mundësinë e një marrjeje të rëndësishme nëpërmjet lëkurës)
Regulatory reference	VENDIM Nr. 522, datë 6.8.2014 PËR MIRATIMIN E RREGULLORES "PËR MBROJTJEN E SIGURISË DHE SHËNDËTIT TË PUNËMARRËSVE NGA RISQET E LIDHURA ME AGJENTËT KIMIKË NË PUNË"
Austria - Occupational Exposure Limits	
Local name	N-Methyl-2-pyrrolidon
MAK (OEL TWA)	40 mg/m ³
MAK (OEL TWA) [ppm]	10 ppm
MAK (OEL STEL)	80 mg/m ³ (4x 15(Miw) min)
MAK (OEL STEL) [ppm]	20 ppm (4x 15(Miw) min)
Remark	H, Sh. Fortpflanzungsgefährdend: D
Regulatory reference	BGBl. II Nr. 238/2018
Belgium - Occupational Exposure Limits	
Local name	N-méthyl-2-pyrrolidone # N-Methyl-2-pyrrolidon
OEL TWA	40 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	80 mg/m ³
OEL STEL [ppm]	20 ppm
Remark	D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020
Bulgaria - Occupational Exposure Limits	
Local name	n-метил-2-пиролидон
OEL TWA	40 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	80 mg/m ³
OEL STEL [ppm]	20 ppm

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N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone (872-50-4)	
Remark	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.5 от 17 Януари 2020 г.)
Croatia - Occupational Exposure Limits	
Local name	N-metil-2-pirolidon; 1-metil-2-pirolidon
GVI (OEL TWA) [1]	40 mg/m ³
GVI (OEL TWA) [2]	10 ppm
KGVI (OEL STEL)	80 mg/m ³
KGVI (OEL STEL) [ppm]	20 ppm
Remark	Direktiva: 2009/161/EU. Napomena: Koža (razvrstana kao tvar koja nadražuje kožu (H315)), Repr 1B
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 91/2018)
Croatia - Biological limit values	
Local name	N-metil-2-pirolidon
BLV	20 mg/g creatinine Karakteristični pokazatelj: 2-hidroksi-N-metilsukcinimid - Biološki uzorak: mokraća - Vrijeme uzorkovanja: Oko 16 sati nakon završetka radne smjene 70 mg/g creatinine Karakteristični pokazatelj: 5-hidroksi-N-metil-2-pirolidon - Biološki uzorak: mokraća - Vrijeme uzorkovanja: (2-4 nakon radne smjene/prekida
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 91/2018)
Denmark - Occupational Exposure Limits	
Local name	N-Methyl-2-pyrrolidon
OEL TWA [1]	20 mg/m ³
OEL TWA [2]	5 ppm
Regulatory reference	BEK nr 290 af 13/02/2021
Estonia - Occupational Exposure Limits	
Local name	N-metüül-2-pürrolidoon
OEL TWA	40 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	80 mg/m ³
OEL STEL [ppm]	20 ppm
Remark	A (Naha kaudu kergesti imenduv aine)
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	N-Metyylipyrrolidoni
HTP (OEL TWA) [1]	14 mg/m ³
HTP (OEL TWA) [2]	3.5 ppm
HTP (OEL STEL)	80 mg/m ³

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HTP (OEL STEL) [ppm]	20 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	N-Méthyl-2-pyrrolidone
VME (OEL TWA)	40 mg/m ³
VME (OEL TWA) [ppm]	10 ppm
VLE (OEL Ceiling/STEL)	80 mg/m ³
VLE (OEL Ceiling/STEL) [ppm]	20 ppm
Remark	Valeurs réglementaires indicatives; risque de pénétration percutanée; substance classée toxique pour la reproduction de catégorie 1B
Regulatory reference	Arrêté du 30 juin 2004 modifié (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	N-Methyl-2-pyrrolidon (Dampf)
AGW (OEL TWA) [1]	82 mg/m ³
AGW (OEL TWA) [2]	20 ppm
Peak exposure limitation factor	2(l)
Remark	EU;DFG;AGS;H;Y;11;19;32
Regulatory reference	TRGS900
Germany - Biological limit values (TRGS 903)	
Local name	N-Methyl-2-pyrrolidon
Biological limit value	150 mg/l Parameter: 5-Hydroxy- N-methyl-2-pyrrolidon - Untersuchungsmaterial: U = Urin - Probenahmezeitpunkt: b) Expositionsende, bzw. Schichtende - Festlegung/Begründung: 05/2013 DFG
Regulatory reference	TRGS 903
Gibraltar - Occupational Exposure Limits	
Local name	n-Methyl-2-pyrrolidone
OEL TWA	40 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	80 mg/m ³
OEL STEL [ppm]	20 ppm
Remark	Skin
Regulatory reference	Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181)
Greece - Occupational Exposure Limits	
Local name	Μεθυλ-2-πιρολιδόνη, N-
OEL TWA	40 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	80 mg/m ³
OEL STEL [ppm]	20 ppm
Remark	Η ένδειξη «δέρμα» στις οριακές τιμές επαγγελματικής έκθεσης επισημαίνει το ενδεχόμενο σημαντικής διείσδυσης μέσω του δέρματος.

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N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone (872-50-4)	
Regulatory reference	Π.Δ. 12/2012 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
Hungary - Occupational Exposure Limits	
Local name	N-METIL-2-PIRROLIDON
AK (OEL TWA)	40 mg/m ³
CK (OEL STEL)	80 mg/m ³
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
Local name	n-Methyl-2-pyrrolidone
OEL TWA [1]	40 mg/m ³
OEL TWA [2]	10 ppm
OEL STEL	80 mg/m ³
OEL STEL [ppm]	20 ppm
Regulatory reference	Chemical Agents Code of Practice 2020
Italy - Occupational Exposure Limits	
Local name	n-Metil-2-pirrolidone
OEL TWA	40 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	80 mg/m ³
OEL STEL [ppm]	20 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	1-metil-2-pirolidīnons (N-metil-2-pirolidons)
OEL TWA	40 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	80 mg/m ³
OEL STEL [ppm]	20 ppm
Remark	Āda
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
Local name	n-metil-2-pirolidonas
IPRV (OEL TWA)	40 mg/m ³
IPRV (OEL TWA) [ppm]	10 ppm
TPRV (OEL STEL)	80 mg/m ³
TPRV (OEL STEL) [ppm]	20 ppm
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)

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N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone (872-50-4)	
Malta - Occupational Exposure Limits	
Local name	n-Methyl-2-pyrrolidone
OEL TWA	40 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	80 mg/m ³
OEL STEL [ppm]	20 ppm
Remark	Skin # Ġilda
Regulatory reference	S.L.424.24 - Chemical Agents at Work Regulations (L.N.57 of 2018)
Netherlands - Occupational Exposure Limits	
Local name	N-Methyl-2-pyrrolidon
MAC-TGG (OEL TWA)	40 mg/m ³
MAC-15 (OEL STEL)	80 mg/m ³
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 2021
Poland - Occupational Exposure Limits	
Local name	1-Metylo-2-pirolidon
NDS (OEL TWA)	40 mg/m ³
NDSch (OEL STEL)	80 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Biological Exposure Indices	
Local name	N-Metil-2-pirrolidona
BEI	100 mg/l Parâmetro: 5-Hidroxi-N-metil-2-pirrolidona - Meio: urina - Momento da amostragem: Fim do turno
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	n-metil-2-pirolidonă
OEL TWA	40 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	80 mg/m ³
OEL STEL [ppm]	20 ppm
Remark	P - posibilitatea unei penetrări cutanate importante; R1B - poate dăuna fătului; poate dăuna fertilității
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
Serbia - Occupational Exposure Limits	
Local name	Н-метил-2-пиролидин
OEL TWA	40 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	80 mg/m ³

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N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone (872-50-4)	
OEL STEL [ppm]	20 ppm
Remark	K – напомена да хемијска материја може штетно деловати на кожу
Regulatory reference	ПРАВИЛНИК о превентивним мерама за безбедан и здрав рад при излагању хемијским материјама („Службени гласник РС”, бр. 106/09 и 117/17)
Slovakia - Occupational Exposure Limits	
Local name	N-Metyl-2-pyrolidon
NPHV (OEL TWA) [1]	40 mg/m ³
NPHV (OEL TWA) [2]	10 ppm
NPHV (OEL STEL)	80 mg/m ³
NPHV (OEL STEL) [ppm]	20 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	N-metil-2-pirolidon (pare)
OEL TWA	40 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	80 mg/m ³
OEL STEL [ppm]	20 ppm
Remark	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), BAT (Biološka mejna vrednost), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Slovenia - Biological limit values	
Local name	N-metilpirolidin
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
Spain - Occupational Exposure Limits	
Local name	N-Metil-2-pirrolidona
VLA-ED (OEL TWA) [1]	40 mg/m ³
VLA-ED (OEL TWA) [2]	10 ppm
VLA-EC (OEL STEL)	80 mg/m ³
VLA-EC (OEL STEL) [ppm]	20 ppm
Remark	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo), VLB® (Agente químico que tiene Valor Límite Biológico), TR1B (Cuando las pruebas utilizadas para la clasificación procedan principalmente de datos en animales), r (Esta sustancia tiene establecidas restricciones a la fabricación, la comercialización o el uso en los términos especificados en el “Reglamento (CE) n° 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 2019. INSHT

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N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone (872-50-4)	
Spain - Biological limit values	
Local name	N-Metil-2-pirrolidona
BLV	20 mg/g creatinine Parámetro: 2-hidroxi-N-metilsuccinimida - Medio: orina - Momento de muestreo: Antes de la jornada laboral 70 mg/g creatinine Parámetro: 5-hidroxi-N-metil-2-pirrolidona - Medio: orina - Momento de muestreo: Entre 2 y 4 horas después del final la exposición
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	N-Metyl-2-pyrrolidon (NMP)
NGV (OEL TWA)	14.4 mg/m ³ 40 mg/m ³
NGV (OEL TWA) [ppm]	3.6 ppm 10 ppm
KTV (OEL STEL)	80 mg/m ³
KTV (OEL STEL) [ppm]	20 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2020:6)
United Kingdom - Occupational Exposure Limits	
Local name	n-Methyl-2-pyrrolidone
WEL TWA [1]	40 mg/m ³
WEL TWA [2]	10 ppm
WEL STEL	80 mg/m ³
WEL STEL [ppm]	20 ppm
Remark	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 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	n-metýl-2-pýrrólídón
OEL TWA	40 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	80 mg/m ³
OEL STEL [ppm]	20 ppm
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 1296/2012)
Norway - Occupational Exposure Limits	
Local name	N-metyl-2-pyrrolidon
Grenseverdi (OEL TWA) [1]	20 mg/m ³
Grenseverdi (OEL TWA) [2]	5 ppm
Korttidsverdi (OEL STEL)	80 mg/m ³
Korttidsverdi (OEL STEL) [ppm]	20 ppm
Regulatory reference	FOR-2020-04-06-695

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N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone (872-50-4)	
Switzerland - Occupational Exposure Limits	
Local name	N-Méthyl-2-pyrrolidone / N-Methyl-2-pyrrolidon
MAK (OEL TWA) [1]	80 mg/m ³
MAK (OEL TWA) [2]	20 ppm
KZGW (OEL STEL)	160 mg/m ³
KZGW (OEL STEL) [ppm]	40 ppm
Notation	R, SS _C / H, SS _C
Remark	INRS
Regulatory reference	www.suva.ch, 01.01.2021
2-aminoethanol (141-43-5)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-Aminoethanol
IOEL TWA	2.5 mg/m ³
IOEL STEL	7.6 mg/m ³
IOEL STEL [ppm]	3 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
Austria - Occupational Exposure Limits	
Local name	2-Aminoethanol
MAK (OEL TWA)	2.5 mg/m ³
MAK (OEL TWA) [ppm]	1 ppm
MAK (OEL STEL)	7.6 mg/m ³ (4x 15(Miw) min)
MAK (OEL STEL) [ppm]	3 ppm (4x 15(Miw) min)
Remark	Sh
Regulatory reference	BGBI. II Nr. 238/2018
Belgium - Occupational Exposure Limits	
Local name	Ethanolamine # Ethanolamine
OEL TWA	2.5 mg/m ³
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m ³
OEL STEL [ppm]	3 ppm
Remark	D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020
Bulgaria - Occupational Exposure Limits	
Local name	Етаноламин (2-Аминоетанол)

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2-aminoethanol (141-43-5)	
OEL TWA	2.5 mg/m ³
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m ³
OEL STEL [ppm]	3 ppm
Remark	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.5 от 17 Януари 2020 г.)
Croatia - Occupational Exposure Limits	
Local name	2-aminoetanol; etanolamin
GVI (OEL TWA) [1]	2.5 mg/m ³
GVI (OEL TWA) [2]	1 ppm
KGVI (OEL STEL)	7.6 mg/m ³
KGVI (OEL STEL) [ppm]	3 ppm
Remark	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)
Denmark - Occupational Exposure Limits	
Local name	2-Aminoethanol (Ethanolamin)
OEL TWA [1]	2.5 mg/m ³
OEL TWA [2]	1 ppm
Regulatory reference	BEK nr 290 af 13/02/2021
Estonia - Occupational Exposure Limits	
Local name	2-aminoetanool
OEL TWA	2.5 mg/m ³
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m ³
OEL STEL [ppm]	3 ppm
Remark	A (Naha kaudu kergesti imenduv aine)
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	2-Aminoetanoli
HTP (OEL TWA) [1]	2.5 mg/m ³
HTP (OEL TWA) [2]	1 ppm
HTP (OEL STEL)	7.6 mg/m ³
HTP (OEL STEL) [ppm]	3 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Ethanolamine (2-Aminoéthanol)

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2-aminoethanol (141-43-5)	
VME (OEL TWA)	2.5 mg/m ³
VME (OEL TWA) [ppm]	1 ppm
VLE (OEL Ceiling/STEL)	7.6 mg/m ³
VLE (OEL Ceiling/STEL) [ppm]	3 ppm
Remark	Valeurs règlementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	2-Amino-ethanol
AGW (OEL TWA) [1]	0.5 mg/m ³
AGW (OEL TWA) [2]	0.2 ppm
Peak exposure limitation factor	1(I)
Remark	DFG;EU;Y;Sh;H;11
Regulatory reference	TRGS900
Gibraltar - Occupational Exposure Limits	
Local name	2-Aminoethanol
OEL TWA	2.5 mg/m ³
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m ³
OEL STEL [ppm]	3 ppm
Remark	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	2.5 mg/m ³
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m ³
OEL STEL [ppm]	3 ppm
Remark	Η ένδειξη «δέρμα» στις οριακές τιμές επαγγελματικής έκθεσης επισημαίνει το ενδεχόμενο σημαντικής διείσδυσης μέσω του δέρματος.
Regulatory reference	Π.Δ. 162/2007 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
Hungary - Occupational Exposure Limits	
Local name	2-AMINOETANOL
AK (OEL TWA)	2.5 mg/m ³
CK (OEL STEL)	7.6 mg/m ³
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Italy - Occupational Exposure Limits	
Local name	2-Amminoetanolo
OEL TWA	2.5 mg/m ³

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2-aminoethanol (141-43-5)	
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m ³
OEL STEL [ppm]	3 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	2-Aminoetanols (monoetanolamīns)
OEL TWA	0.5 mg/m ³
OEL TWA [ppm]	0.2 ppm
OEL STEL	7.6 mg/m ³
OEL STEL [ppm]	3 ppm
Remark	Āda
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
Lithuania - Occupational Exposure Limits	
Local name	2-aminoetanolis (etanolaminas)
IPRV (OEL TWA)	2.5 mg/m ³
IPRV (OEL TWA) [ppm]	1 ppm
TPRV (OEL STEL)	7.6 mg/m ³
TPRV (OEL STEL) [ppm]	3 ppm
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	2.5 mg/m ³
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m ³
OEL STEL [ppm]	3 ppm
Remark	Peau
Regulatory reference	Mémorial A N° 684 de 2018 concernant la protection de la sécurité et de la santé des salariés contre les risques liés à des agents chimiques sur le lieu de travail
Malta - Occupational Exposure Limits	
Local name	2-Aminoethanol
OEL TWA	2.5 mg/m ³
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m ³
OEL STEL [ppm]	3 ppm
Remark	Skin # Ġilda
Regulatory reference	S.L.424.24 - Chemical Agents at Work Regulations (L.N.57 of 2018)
Netherlands - Occupational Exposure Limits	
Local name	2-Aminoethanol

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2-aminoethanol (141-43-5)	
MAC-TGG (OEL TWA)	2.5 mg/m ³
MAC-15 (OEL STEL)	7.6 mg/m ³
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 2021
Poland - Occupational Exposure Limits	
Local name	2-Aminoetanol
NDS (OEL TWA)	2.5 mg/m ³
NDSch (OEL STEL)	7.5 mg/m ³
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	2.5 mg/m ³
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m ³
OEL STEL [ppm]	3 ppm
Remark	P - posibilitatea unei penetrări cutanate importante
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
Serbia - Occupational Exposure Limits	
Local name	2-аминоетанол; етаноламин
OEL TWA	3 mg/m ³
OEL TWA [ppm]	1 ppm
OEL STEL	8 mg/m ³
OEL STEL [ppm]	3 ppm
Remark	EU** – напомена да се ради о хемијским материјама за које су утврђене индикативне граничне вредности изложености према Директиви 2006/15/ЕЗ (друга листа); К – напомена да хемијска материја може штетно деловати на кожу
Regulatory reference	ПРАВИЛНИК о превентивним мерама за безбедан и здрав рад при излагању хемијским материјама („Службени гласник РС”, бр. 106/09 и 117/17)
Slovakia - Occupational Exposure Limits	
Local name	2-Aminoetanol
NPHV (OEL TWA) [1]	2.5 mg/m ³
NPHV (OEL TWA) [2]	1 ppm
NPHV (OEL STEL)	7.6 mg/m ³

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2-aminoethanol (141-43-5)	
NPHV (OEL STEL) [ppm]	3 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	2-aminoetanol (etanolamin)
OEL TWA	2.5 mg/m ³
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m ³
OEL STEL [ppm]	3 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), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	2-Aminoetanol (Etanolamina)
VLA-ED (OEL TWA) [1]	2.5 mg/m ³
VLA-ED (OEL TWA) [2]	1 ppm
VLA-EC (OEL STEL)	7.5 mg/m ³
VLA-EC (OEL STEL) [ppm]	3 ppm
Remark	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Etanolamin
NGV (OEL TWA)	2.5 mg/m ³
NGV (OEL TWA) [ppm]	1 ppm
KTV (OEL STEL)	7.5 mg/m ³
KTV (OEL STEL) [ppm]	3 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
Local name	2-Aminoethanol
WEL TWA [1]	2.5 mg/m ³
WEL TWA [2]	1 ppm
WEL STEL	7.6 mg/m ³
WEL STEL [ppm]	3 ppm
Remark	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 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	Etanólamín (2-amínóetanól)

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2-aminoethanol (141-43-5)	
OEL TWA	2.5 mg/m ³
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m ³
OEL STEL [ppm]	3 ppm
Remark	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)
Grenseverdi (OEL TWA) [1]	2.5 mg/m ³
Grenseverdi (OEL TWA) [2]	1 ppm
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
Local name	2-Aminoéthanol / 2-Aminoethanol [Ethanolamin]
MAK (OEL TWA) [1]	5 mg/m ³
MAK (OEL TWA) [2]	2 ppm
KZGW (OEL STEL)	10 mg/m ³
KZGW (OEL STEL) [ppm]	4 ppm
Critical toxicity	Peau, Fatigue, Yeux / Haut, Fatigue, Auge
Notation	S / S
Remark	NIOSH
Regulatory reference	www.suva.ch, 01.01.2021
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
Finland - Occupational Exposure Limits	
Local name	D-Limoneeni
HTP (OEL TWA) [1]	140 mg/m ³
HTP (OEL TWA) [2]	25 ppm
HTP (OEL STEL)	280 mg/m ³
HTP (OEL STEL) [ppm]	50 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	(R)-p-Mentha-1,8-dien (D-Limonen)
AGW (OEL TWA) [1]	28 mg/m ³
AGW (OEL TWA) [2]	5 ppm
Peak exposure limitation factor	4(II)
Remark	DFG;H;Sh;Y
Regulatory reference	TRGS900
Slovenia - Occupational Exposure Limits	
Local name	(R)-p-menta-1,8-dien (D-limonen)

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(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
OEL TWA	28 mg/m ³
OEL TWA [ppm]	5 ppm
OEL STEL	112 mg/m ³
OEL STEL [ppm]	20 ppm
Remark	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	d-Limoneno
VLA-ED (OEL TWA) [1]	168 mg/m ³
VLA-ED (OEL TWA) [2]	30 ppm
Remark	Sen (Sensibilizante), vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Norway - Occupational Exposure Limits	
Local name	d-limonen (Limonen)
Grænseverdi (OEL TWA) [1]	140 mg/m ³
Grænseverdi (OEL TWA) [2]	25 ppm
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
Local name	D-Limonène / D-Limonen
MAK (OEL TWA) [1]	40 mg/m ³
MAK (OEL TWA) [2]	7 ppm
KZGW (OEL STEL)	80 mg/m ³
KZGW (OEL STEL) [ppm]	14 ppm
Critical toxicity	Foie / Leber
Notation	S, SS _C / S, SS _C
Regulatory reference	www.suva.ch, 01.01.2021

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

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DNEL/DMEL (Workers)	
Long-term - local effects, dermal	4.8 mg/m ³
Long-term - local effects, inhalation	14.4 mg/m ³

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DNEL/DMEL (General population)	
Long-term - local effects, inhalation	5 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.018 mg/l
PNEC aqua (marine water)	0.0018 mg/l
PNEC aqua (intermittent, freshwater)	0.18 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.16 mg/kg dwt
PNEC sediment (marine water)	0.016 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.09 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Beige.
Odour	: characteristic.
Odour threshold	: No data available
pH	: 8.8 (8.7 – 8.9)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: > 53
Flash point	: > 93 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

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. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified

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Acute toxicity (inhalation) : Not classified

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LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 11 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone (872-50-4)

LD50 oral rat	4150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 3100 - 5560
LD50 dermal rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5.1 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (85536-14-7)

LD50 oral rat	≈ 1470 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1361 - 1588
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

(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)
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Skin corrosion/irritation	: Causes severe skin burns. pH: 8.8 (8.7 – 8.9)
Serious eye damage/irritation	: Causes serious eye damage. pH: 8.8 (8.7 – 8.9)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone (872-50-4)

NOAEL (chronic, oral, animal/male, 2 years)	≈ 89 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 451 (Carcinogenicity Studies), Guideline: EU Method B.32 (Carcinogenicity Test), Guideline: EPA OTS 798.3300 (Carcinogenicity), Remarks on results: other:Effect type: toxicity (migrated information)
NOAEL (chronic, oral, animal/female, 2 years)	≈ 221 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 451 (Carcinogenicity Studies), Guideline: EU Method B.32 (Carcinogenicity Test), Guideline: EPA OTS 798.3300 (Carcinogenicity), Remarks on results: other:Effect type: toxicity (migrated information)

Reproductive toxicity	: May damage fertility or the unborn child.
STOT-single exposure	: May cause respiratory irritation.

N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone (872-50-4)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure	: Not classified
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N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone (872-50-4)

LOAEC (inhalation, rat,dust/mist/fume, 90 days)	1 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
NOAEL (dermal, rat/rabbit, 90 days)	826 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)

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N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone (872-50-4)	
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.5 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
2-aminoethanol (141-43-5)	
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: other:OECD Guideline 416 (Two-generation reproduction toxicity study)
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.
Not rapidly degradable	

N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone (872-50-4)	
LC50 - Fish [1]	> 500 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>)
EC50 72h - Algae [1]	600.5 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i>)
EC50 72h - Algae [2]	> 500 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i>)
LOEC (chronic)	25 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'
NOEC (chronic)	12.5 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'

2-aminoethanol (141-43-5)	
LC50 - Fish [1]	349 mg/l Test organisms (species): <i>Cyprinus carpio</i>
EC50 - Crustacea [1]	65 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	2.8 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
EC50 72h - Algae [2]	2.1 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
NOEC (chronic)	0.85 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'
NOEC chronic fish	1.24 mg/l Test organisms (species): <i>Oryzias latipes</i> Duration: '41 d'

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (85536-14-7)

LC50 - Fish [1]	1.67 mg/l Test organisms (species): <i>Lepomis macrochirus</i>
EC50 - Crustacea [1]	2.9 mg/l Test organisms (species): <i>Daphnia magna</i>
NOEC (chronic)	1.18 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'

(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)

LC50 - Fish [1]	720 µg/l Test organisms (species): <i>Pimephales promelas</i>
EC50 - Crustacea [1]	0.36 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	≈ 8 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i>)

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(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)

NOEC (chronic)

0.115 mg/l Test organisms (species): other:For freshwater invertebrates, species frequently include Daphnia magna or Daphnia pulex. Duration: '16 d'

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component

N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone (872-50-4)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods
Additional information

: Dispose of contents/container in accordance with licensed collector's sorting instructions.
: Flammable vapours may accumulate in the container.

SECTION 14: Transport information






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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 3267	UN 3267	UN 3267	UN 3267	UN 3267
14.2. UN proper shipping name				
CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone ; (R)-p-mentha-1,8-diene; d-limonene)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone ; (R)-p-mentha-1,8-diene; d-limonene)	Corrosive liquid, basic, organic, n.o.s. (N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone ; (R)-p-mentha-1,8-diene; d-limonene)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone ; (R)-p-mentha-1,8-diene; d-limonene)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone ; (R)-p-mentha-1,8-diene; d-limonene)
Transport document description				
UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone ; (R)-p-mentha-1,8-diene; d-limonene), 8, II, (E), ENVIRONMENTALLY HAZARDOUS	UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone ; (R)-p-mentha-1,8-diene; d-limonene), 8, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 3267 Corrosive liquid, basic, organic, n.o.s. (N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone ; (R)-p-mentha-1,8-diene; d-limonene), 8, II, ENVIRONMENTALLY HAZARDOUS	UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone ; (R)-p-mentha-1,8-diene; d-limonene), 8, II, ENVIRONMENTALLY HAZARDOUS	UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone ; (R)-p-mentha-1,8-diene; d-limonene), 8, II, ENVIRONMENTALLY HAZARDOUS

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ADR	IMDG	IATA	ADN	RID
14.3. Transport hazard class(es)				
8	8	8	8	8
				
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: C7
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T11
Portable tank and bulk container special provisions (ADR)	: TP2, TP27
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Hazard identification number (Kemler No.)	: 80
Orange plates	: 
Tunnel restriction code (ADR)	: E
EAC code	: 2X
APP code	: B

Transport by sea

Special provisions (IMDG)	: 274
Limited quantities (IMDG)	: 1 L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T11
Tank special provisions (IMDG)	: TP2, TP27
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: B
Stowage and handling (IMDG)	: SW2
Segregation (IMDG)	: SG35
Properties and observations (IMDG)	: Reacts violently with acids. Causes burns to skin, eyes and mucous membranes.

Air transport

PCA Excepted quantities (IATA)	: E2
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PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8L

Inland waterway transport

Classification code (ADN)	: C7
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0

Rail transport

Classification code (RID)	: C7
Special provisions (RID)	: 274
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02
Mixed packing provisions (RID)	: MP15
Portable tank and bulk container instructions (RID)	: T11
Portable tank and bulk container special provisions (RID)	: TP2, TP27
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE6
Hazard identification number (RID)	: 80

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

EU restriction list (REACH Annex XVII)

Reference code	Applicable on
3(a)	(R)-p-mentha-1,8-diene; d-limonene
3(b)	Neostrip 710 ; N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone ; 2-aminoethanol ; (R)-p-mentha-1,8-diene; d-limonene ; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.
3(c)	Neostrip 710 ; (R)-p-mentha-1,8-diene; d-limonene ; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.
30.	N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone
40.	(R)-p-mentha-1,8-diene; d-limonene
71.	Neostrip 710 ; N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone
72.	N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone

Contains a substance on the REACH candidate list in concentration $\geq 0.1\%$ or with a lower specific limit: 1-Methyl-2-pyrrolidone (EC 212-828-1, CAS 872-50-4)

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

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

15.1.2. National regulations

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 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

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

List of sensitizing substances (TRGS 907) : Contains sensitizing substances according TRGS 907

Netherlands

SZW-lijst van kankerverwekkende stoffen : Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. is listed

SZW-lijst van mutagene stoffen : Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. is 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 : N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone is listed

Denmark

Classification remarks : 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

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:	
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)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level

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Abbreviations and acronyms:	
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
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
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

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 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.

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Full text of H- and EUH-statements:	
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful 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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child.
H360D	May damage the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

Safety Data Sheet (SDS), EU

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.