

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

1.1. Product identifier

Product form	: Mixture
Name	: James Stainspray
UFI	: 0YM7-H2T5-ST0J-XFK7
Product code	: 8700.0_76068RT84
Type of product	: Detergent
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, Consumer use
Industrial/Professional use spec	: A.I.S.E. Guidance on Detergents Safe Use Mixture Information (SUMI): https://www.aise.eu/our-activities/regulatory-context/reach/safe-use-information-for-end-users.aspx
Use of the substance/mixture	: The data given here is based on the product properties as mentioned in section 1.1. and is provided on the assumption, that the product will be used in the manner and for the purposes for which the manufacturer indicates.
Use of the substance/mixture	: Cleaner
Function or use category	: Cleaning/washing agents and additives

Title	Use descriptors
Professional uses; (Trigger) spraying	SU22, PC35, PROC11, ERC8a, AISE SPERC 8a.1.a.v2
Transfer of product via a dedicated system (bottle/machine)	SU22, PC35, PROC8b, ERC8a, AISE SPERC 8a.1.a.v2
Consumer use of polishes	SU21, PC31, ERC8a

Full text of use descriptors: see section 16

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

James B.V.
Rudolf Dieselweg 28 a
NL 5928 RA Venlo
Nederland
T +31 (0) 773278000
info@james.eu

1.4. Emergency telephone number

Emergency number : See Section 1.3; Only during office hours

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090 Msida	+356 2545 6508	

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Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2 H225
Serious eye damage/eye irritation, Category 2 H319
Specific target organ toxicity – Single exposure, Category 3, Narcosis H336
Full text of H- and EUH-statements: see section 16

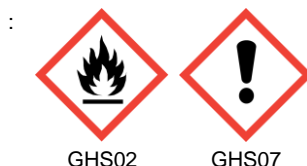
Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Contains

: BUTYL ACETATE; ETHYL ACETATE; METHOXYISOPROPANOL

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.

Precautionary statements (CLP)

: P102 - Keep out of reach of children.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 - Avoid breathing vapours, spray.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear eye protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
EUH-statements : EUH066 - Repeated exposure may cause skin dryness or cracking.

Intended for general public

Child-resistant fastening

: Not applicable

Tactile warning

: Applicable

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

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

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
n-butyl acetate (INCI: BUTYL ACETATE) substance with national workplace exposure limit(s) (BE, BG, DK, DE, FI, FR, GR, HU, IE, HR, LV, NL, PL, PT, RO, SI, SK, ES, CZ, GB, SE)	CAS-No.: 123-86-4 EC-No.: 204-658-1 EC Index-No.: 607-025-00-1 REACH-no: 01-2119485493-29	≥ 30	Flam. Liq. 3, H226 STOT SE 3, H336
ethyl acetate (INCI: ETHYL ACETATE) substance with national workplace exposure limit(s) (BE, BG, DK, DE, EE, FI, FR, GR, HU, IE, HR, LV, LT, NL, AT, PL, PT, RO, SI, SK, ES, CZ, GB, SE); substance with a Community workplace exposure limit	CAS-No.: 141-78-6 EC-No.: 205-500-4 EC Index-No.: 607-022-00-5 REACH-no: 01-2119475103-X	≥ 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
1-methoxy-2-propanol; monopropylene glycol methyl ether (INCI: METHOXYISOPROPANOL) substance with national workplace exposure limit(s) (BE, BG, DK, DE, FI, FR, GR, HU, IE, IT, HR, LV, LT, LU, MT, NL, AT, PL, PT, RO, SI, SK, ES, CZ, GB, SE); substance with a Community workplace exposure limit	CAS-No.: 107-98-2 EC-No.: 203-539-1 EC Index-No.: 603-064-00-3 REACH-no: 01-2119457435-35	10 – 20	Flam. Liq. 3, H226 STOT SE 3, H336
benzyl acetate (INCI: BENZYL ACETATE) substance with national workplace exposure limit(s) (BE, DK, LV, LT, PT, RO, ES)	CAS-No.: 140-11-4 EC-No.: 205-399-7 REACH-no: 01-2119638272-42	< 0,1	Aquatic Chronic 3, H412
Bicyclo[2.2.1]Heptan-2-One, 1,7,7-Trimethyl- (INCI: CAMPHOR) substance with national workplace exposure limit(s) (BE, BG, DK, FI, FR, GR, IE, HR, LT, AT, PL, PT, RO, SI, SK, ES, GB)	CAS-No.: 76-22-2 EC-No.: 200-945-0 REACH-no: 01-2119966156-31	< 0,1	Flam. Sol. 2, H228 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 2, H371 Aquatic Chronic 3, H412
2,6-di-tert-butyl-p-cresol (INCI: BHT) substance with national workplace exposure limit(s) (BE, BG, DK, DE, FI, FR, GR, IE, HR, AT, PT, SI, ES, GB)	CAS-No.: 128-37-0 EC-No.: 204-881-4 REACH-no: 01-2119555270-46	< 0,1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Citral (INCI: CITRAL) substance with national workplace exposure limit(s) (PL, ES)	CAS-No.: 5392-40-5 EC-No.: 226-394-6 EC Index-No.: 605-019-00-3 REACH-no: 01-2119462829-23	< 0,1	Skin Irrit. 2, H315 Skin Sens. 1, H317
Benzaldehyde (INCI: BENZALDEHYDE) substance with national workplace exposure limit(s) (BG, FI, HU, LV, LT, PL)	CAS-No.: 100-52-7 EC-No.: 202-860-4 EC Index-No.: 605-012-00-5 REACH-no: 01-2119455540-44	< 0,1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Eye Irrit. 2, H319 STOT SE 3, H335

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Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
(R)-p-mentha-1,8-diene (D-Limonene) (INCI: D-LIMONENE) substance with national workplace exposure limit(s) (DE, FI, ES)	CAS-No.: 5989-27-5 EC-No.: 227-813-5 EC Index-No.: 601-029-00-7 REACH-no: 01-2119529223-47	< 0,1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. Repeated exposure may cause skin dryness or cracking.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Eye irritant upon direct contact. Blurred vision. Burning sensation. Tears. Redness.
Symptoms/effects after ingestion	: May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Highly flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Concerning personal protective equipment to use, see section 8. Material spilled on hard surface can present a serious slipping/falling hazard.
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6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Provide adequate ventilation to minimize dust and/or vapour concentrations.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling : Normal precautions for the use of chemicals and cleaners should be taken care of. See information supplied by the manufacturer. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Use only non-sparking tools. Avoid breathing vapours.
Hygiene measures : Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.
Storage conditions : Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Keep container tightly closed.
Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

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-butyl acetate (123-86-4)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	n-butyl acetate
Remark	(Ongoing)
Regulatory reference	SCOEL Recommendations
Belgium - Occupational Exposure Limits	
Local name	Acétate de n-butyle # n-Butylacetaat

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n-butyl acetate (123-86-4)	
OEL TWA	723 mg/m ³
	150 ppm
OEL STEL	964 mg/m ³
	200 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/03/2002
Bulgaria - Occupational Exposure Limits	
Local name	n-Бутилацетат
OEL TWA	710 mg/m ³
OEL STEL	950 mg/m ³
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа
Croatia - Occupational Exposure Limits	
Local name	n-Butil-acetat
GVI (OEL TWA)	724 mg/m ³
	150 ppm
KGVI (OEL STEL)	966 mg/m ³
	200 ppm
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN, br. 75/13)
Czech Republic - Occupational Exposure Limits	
Local name	Butylacetát
PEL (OEL TWA)	950 mg/m ³
	200,5 ppm
NPK-P (OEL C)	1200 mg/m ³
	253 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zapracovány změny č. 93/2012 Sb., 9/2013 Sb.)
Denmark - Occupational Exposure Limits	
Local name	n-Butylacetat
OEL TWA	710 mg/m ³
	150 ppm
Regulatory reference	BEK nr 986 af 11/10/2012
Finland - Occupational Exposure Limits	
Local name	n-Butyylisetaatti
HTP (OEL TWA)	720 mg/m ³
	150 ppm
HTP (OEL STEL)	960 mg/m ³
	200 ppm
Regulatory reference	HTP-ARVOT 2016 (Sosiaali- ja terveystieteiden ministeriö)

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n-butyl acetate (123-86-4)	
France - Occupational Exposure Limits	
Local name	Acétate de n-butyle
VME (OEL TWA)	710 mg/m ³
	150 ppm
VLE (OEL C/STEL)	940 mg/m ³
	200 ppm
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	n-Butylacetat
AGW (OEL TWA)	300 mg/m ³
	62 ppm
Remark	AGS;Y
Regulatory reference	TRGS900
Greece - Occupational Exposure Limits	
OEL TWA	710 mg/m ³
	150 ppm
OEL STEL	950 mg/m ³
	200 ppm
Hungary - Occupational Exposure Limits	
Local name	n-BUTIL-ACETÁT
AK (OEL TWA)	950 mg/m ³
CK (OEL STEL)	950 mg/m ³
Ireland - Occupational Exposure Limits	
Local name	Butyl acetate
OEL TWA	710 mg/m ³
	150 ppm
OEL STEL	950 mg/m ³
	200 ppm
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016
Latvia - Occupational Exposure Limits	
Local name	Etiķskābesbutilesteris (n-butilacetāts)
OEL TWA	200 mg/m ³
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	150 mg/m ³
Poland - Occupational Exposure Limits	
Local name	Octan butylu (n-butylu octan)

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n-butyl acetate (123-86-4)	
NDS (OEL TWA)	200 mg/m ³
NDSch (OEL STEL)	950 mg/m ³
Regulatory reference	Dz.U. 2014 poz. 817
Portugal - Occupational Exposure Limits	
Local name	Acetato de n-butilo
OEL TWA	150 ppm
OEL STEL	200 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Acetat de butil
OEL TWA	715 mg/m ³
	150 ppm
OEL STEL	950 mg/m ³
	200 ppm
Regulatory reference	Legea 319/2006 privind Securitatea și sănătatea în muncă și HG nr. 1/2012 de modificare și completare a HG 1218/2006
Slovakia - Occupational Exposure Limits	
Local name	n-Butylacetát
NPHV (OEL TWA)	500 mg/m ³
	100 ppm
NPHV (OEL STEL)	700 mg/m ³
	150 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	n-butylacetat
OEL TWA	480 mg/m ³
	100 ppm
OEL STEL	480 mg/m ³
	100 ppm
KTV	1
Regulatory reference	Uradni list RS, št. 102/2010 z dne 17.12.2010
Spain - Occupational Exposure Limits	
Local name	Acetato de n-butilo
VLA-ED (OEL TWA)	724 mg/m ³
	150 ppm
VLA-EC (OEL STEL)	965 mg/m ³
	200 ppm
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2017. INSHT

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n-butyl acetate (123-86-4)	
Sweden - Occupational Exposure Limits	
Local name	n-Butylacetat
NGV (OEL TWA)	500 mg/m ³
	100 ppm
KGV (OEL STEL)	700 mg/m ³
	150 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2015:7)
United Kingdom - Occupational Exposure Limits	
Local name	Butyl acetate
WEL TWA (OEL TWA)	724 mg/m ³
	150 ppm
WEL STEL (OEL STEL)	966 mg/m ³
	200 ppm
Regulatory reference	EH40. HSE
Iceland - Occupational Exposure Limits	
Local name	Bútýlasetat, allir isómerar (ísóbútýlasetat)
OEL TWA	700 mg/m ³
	150 ppm
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Switzerland - Occupational Exposure Limits	
Local name	1-Butylacetat
MAK (OEL TWA)	480 mg/m ³
	480 mg/m ³
	100 ppm 100 ppm
KZGW (OEL STEL)	960 mg/m ³
	960 mg/m ³
	200 ppm 200 ppm
Remark	SS _C - Auge ^{KT HU} & OAW ^{KT HU} - INRS, NIOSH
ethyl acetate (141-78-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethyl acetate
IOEL TWA	734 mg/m ³
	200 ppm
IOEL STEL	1486 mg/m ³
	400 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164

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ethyl acetate (141-78-6)	
Austria - Occupational Exposure Limits	
Local name	Ethylacetat
MAK (OEL TWA)	1050 mg/m ³
	300 ppm
MAK (OEL STEL)	2100 mg/m ³
	600 ppm
Regulatory reference	BGBl. II Nr. 186/2015
Belgium - Occupational Exposure Limits	
Local name	Acétate d'éthyle # Ethylacetaat
OEL TWA	1461 mg/m ³
	400 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/03/2002
Bulgaria - Occupational Exposure Limits	
Local name	Етилацетат
OEL TWA	800 mg/m ³
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа
Croatia - Occupational Exposure Limits	
Local name	Etil-acetat
GVI (OEL TWA)	200 ppm
KGVI (OEL STEL)	400 ppm
Remark	F (lako zapaljivo); Xi (nadražujuće)
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN, br. 75/13)
Czech Republic - Occupational Exposure Limits	
Local name	Ethylacetát
PEL (OEL TWA)	700 mg/m ³
	195 ppm
NPK-P (OEL C)	900 mg/m ³
	250 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zapracovány změny č. 93/2012 Sb., 9/2013 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Ethylacetat (Eddikesyreethylester)
OEL TWA	540 mg/m ³
	150 ppm
Regulatory reference	BEK nr 986 af 11/10/2012
Estonia - Occupational Exposure Limits	
Local name	Etüületsetaat (etüületanaat)
OEL TWA	500 mg/m ³

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ethyl acetate (141-78-6)	
	150 ppm
OEL STEL	1100 mg/m ³
	300 ppm
Regulatory reference	Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293
Finland - Occupational Exposure Limits	
Local name	Etyyliasettaatti
HTP (OEL TWA)	730 mg/m ³
	200 ppm
HTP (OEL STEL)	1470 mg/m ³
	400 ppm
Regulatory reference	HTP-ARVOT 2016 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Acétate d'éthyle
VME (OEL TWA)	1400 mg/m ³
	400 ppm
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Ethylacetat
AGW (OEL TWA)	730 mg/m ³
	200 ppm
Remark	DFG;EU;Y
Regulatory reference	TRGS900
Greece - Occupational Exposure Limits	
OEL TWA	1400 mg/m ³
	400 ppm
Hungary - Occupational Exposure Limits	
Local name	ETIL-ACETÁT
AK (OEL TWA)	1400 mg/m ³
CK (OEL STEL)	1400 mg/m ³
Ireland - Occupational Exposure Limits	
Local name	Ethyl acetate
OEL TWA	200 ppm
OEL STEL	400 ppm
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016
Latvia - Occupational Exposure Limits	
Local name	Etiķskābesetilesteris (etilacetāts)
OEL TWA	200 mg/m ³

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ethyl acetate (141-78-6)	
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325
Lithuania - Occupational Exposure Limits	
Local name	Etilo acetatas
IPRV (OEL TWA)	500 mg/m ³
	150 ppm
NRV (OEL C)	1100 mg/m ³
	300 ppm
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	550 mg/m ³
TGG-15min (OEL STEL)	1100 mg/m ³
Poland - Occupational Exposure Limits	
Local name	Octan etylu
NDS (OEL TWA)	200 mg/m ³
NDSch (OEL STEL)	600 mg/m ³
Regulatory reference	Dz.U. 2014 poz. 817
Portugal - Occupational Exposure Limits	
Local name	Acetato de etilo
OEL TWA	400 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Acetat de etil
OEL TWA	400 mg/m ³
	111 ppm
OEL STEL	500 mg/m ³
	139 ppm
Regulatory reference	Legea 319/2006 privind Securitatea și sănătatea în muncă și HG nr. 1/2012 de modificare și completare a HG 1218/2006
Slovakia - Occupational Exposure Limits	
Local name	Etylacetát (octan etylový)
NPHV (OEL TWA)	500 mg/m ³
	150 ppm
NPHV (OEL STEL)	1100 mg/m ³
	300 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	etilacetat
OEL TWA	1400 mg/m ³
	400 ppm

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ethyl acetate (141-78-6)	
OEL STEL	1400 mg/m ³
	400 ppm
KTV	1
Regulatory reference	Uradni list RS, št. 102/2010 z dne 17.12.2010
Spain - Occupational Exposure Limits	
Local name	Acetato de etilo
VLA-ED (OEL TWA)	1460 mg/m ³
	400 ppm
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2017. INSHT
Sweden - Occupational Exposure Limits	
Local name	Etylacetat
NGV (OEL TWA)	550 mg/m ³
	150 ppm
KGV (OEL STEL)	1100 mg/m ³
	300 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2015:7)
United Kingdom - Occupational Exposure Limits	
Local name	Ethyl acetate
WEL TWA (OEL TWA)	200 ppm
WEL STEL (OEL STEL)	400 ppm
Regulatory reference	EH40. HSE
Iceland - Occupational Exposure Limits	
Local name	Etýlasetat (edíksúruetýlester)
OEL TWA	540 mg/m ³
	150 ppm
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Norway - Occupational Exposure Limits	
Local name	Etylacetat
Grenseverdi (OEL TWA)	550 mg/m ³
	150 ppm
Regulatory reference	Arbeidstilsynet. Forskrift, best.nr. 704
Switzerland - Occupational Exposure Limits	
Local name	Essigsäureethylester (s. Ethylacetat)
MAK (OEL TWA)	1400 mg/m ³
	1400 mg/m ³
	400 ppm
	400 ppm
KZGW (OEL STEL)	2800 mg/m ³
	2800 mg/m ³

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ethyl acetate (141-78-6)	
	800 ppm 800 ppm
Remark	SS _c - OAW ^{KT HU} & Auge ^{KT HU} - INRS, NIOSH
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	1-Methoxypropanol-2
IOEL TWA	375 mg/m ³
	100 ppm
IOEL STEL	568 mg/m ³
	150 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Austria - Occupational Exposure Limits	
Local name	1-Methoxypropanol-2
MAK (OEL TWA)	187 mg/m ³
	50 ppm
MAK (OEL STEL)	187 mg/m ³
	50 ppm
Remark	H
Regulatory reference	BGBl. II Nr. 186/2015
Belgium - Occupational Exposure Limits	
Local name	1-Méthoxy-2-propanol # 1-Methoxy-2-propanol
OEL TWA	375 mg/m ³
	100 ppm
OEL STEL	568 mg/m ³
	150 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 11/03/2002
Bulgaria - Occupational Exposure Limits	
Local name	1-Метоксипропан-2-ол
OEL TWA	375 mg/m ³
	100 ppm
OEL STEL	568 mg/m ³
	150 ppm

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1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
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
Croatia - Occupational Exposure Limits	
Local name	1-Metoksi-2-propanol; (monopropilen-glikol metil-eter)
GVI (OEL TWA)	375 mg/m ³
	100 ppm
KGVII (OEL STEL)	568 mg/m ³
	150 ppm
Remark	K (Skin): (naznaka da tvar može štetno djelovati kroz kožu); EU* (naznaka da se radi o tvarima za koje su utvrđene indikativne granične vrijednosti izloženosti prema Direktivi 2000/39/ EC (prva lista))
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN, br. 75/13)
Czech Republic - Occupational Exposure Limits	
Local name	1-Methoxy-2-propanol
PEL (OEL TWA)	270 mg/m ³
	73,2 ppm
NPK-P (OEL C)	550 mg/m ³
	149,1 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zpracovány změny č. 93/2012 Sb., 9/2013 Sb.)
Denmark - Occupational Exposure Limits	
Local name	1-Methoxy-2-propanol (Propylenglycolmonomethylether)
OEL TWA	185 mg/m ³
	50 ppm
Regulatory reference	BEK nr 986 af 11/10/2012
Finland - Occupational Exposure Limits	
Local name	1-Metoksi-2-propanoli
HTP (OEL TWA)	370 mg/m ³
	100 ppm
HTP (OEL STEL)	560 mg/m ³
	150 ppm
Regulatory reference	HTP-ARVOT 2016 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	1-Méthoxy-2-propanol (Ether méthylique du propylène-glycol)
VME (OEL TWA)	188 mg/m ³
	50 ppm
VLE (OEL C/STEL)	375 mg/m ³

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1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
	100 ppm
Remark	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)	
Local name	1-Methoxy-2-propanol
AGW (OEL TWA)	370 mg/m ³ 100 ppm
Remark	DFG;EU;Y
Regulatory reference	TRGS900
Greece - Occupational Exposure Limits	
OEL TWA	360 mg/m ³ 100 ppm
OEL STEL	1080 mg/m ³ 300 ppm
Hungary - Occupational Exposure Limits	
Local name	1-METOXIPROPÁN-2-OL
AK (OEL TWA)	375 mg/m ³
CK (OEL STEL)	568 mg/m ³
Ireland - Occupational Exposure Limits	
Local name	Propylene glycol monomethyl ether
OEL TWA	375 mg/m ³ 100 ppm
OEL STEL	568 mg/m ³ 150 ppm
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016
Italy - Occupational Exposure Limits	
Local name	Metossipropanolo-2,1-
OEL TWA	375 mg/m ³ 100 ppm
OEL STEL	568 mg/m ³ 150 ppm
Remark	pelle
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	1-Metoksi-2-propanols (propilēnglikola monometilēteris, monopropilēnglikolmetilēteris)
OEL TWA	375 mg/m ³ 100 ppm
OEL STEL	568 mg/m ³

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1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
	150 ppm
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325
Lithuania - Occupational Exposure Limits	
Local name	1-metoksipropanolis-2 (propilenglikolio monometileteris, PGME)
IPRV (OEL TWA)	190 mg/m ³
	50 ppm
TPRV (OEL STEL)	300 mg/m ³
	75 ppm
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011
Luxembourg - Occupational Exposure Limits	
Local name	1-Méthoxypropane-2-ol
OEL TWA	375 mg/m ³
	100 ppm
OEL STEL	568 mg/m ³
	150 ppm
Regulatory reference	Mémorial A N° 235
Malta - Occupational Exposure Limits	
Local name	1-Methoxypropanol-2
OEL TWA	375 mg/m ³
	100 ppm
OEL STEL	568 mg/m ³
	150 ppm
Regulatory reference	S.L.424.24
Netherlands - Occupational Exposure Limits	
Local name	1-Methoxy-2-propanol
TGG-8u (OEL TWA)	375 mg/m ³
TGG-15min (OEL STEL)	563 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 Haanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.
Regulatory reference	Arbeidsomstandighedenregeling 2017
Poland - Occupational Exposure Limits	
Local name	1-Metoksypropan-2-ol
NDS (OEL TWA)	180 mg/m ³
NDSch (OEL STEL)	360 mg/m ³
Regulatory reference	Dz.U. 2014 poz. 817
Portugal - Occupational Exposure Limits	
Local name	1-Metoxi-2-propanol (PGME)

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1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
OEL TWA	50 ppm
OEL STEL	100 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	I-Metoxipropan 2-ol
OEL TWA	375 mg/m ³ 100 ppm
OEL STEL	568 mg/m ³ 150 ppm
Regulatory reference	Legea 319/2006 privind Securitatea și sănătatea în muncă și HG nr. 1/2012 de modificare și completare a HG 1218/2006
Slovakia - Occupational Exposure Limits	
Local name	1-Metoxipropan-2-ol (propylénglykolmonometyléter)
NPHV (OEL TWA)	375 mg/m ³ 100 ppm
NPHV (OEL STEL)	568 mg/m ³ 150 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	1-metoksi-2-propanol (propilenglikolmonometil eter)
OEL TWA	375 mg/m ³ 100 ppm
OEL STEL	562,5 mg/m ³ 150 ppm
KTV	1,5
Regulatory reference	Uradni list RS, št. 102/2010 z dne 17.12.2010
Spain - Occupational Exposure Limits	
Local name	1-Metoxipropan-2-ol (Éter 1-metilico de propilenglicol)
VLA-ED (OEL TWA)	375 mg/m ³ 100 ppm
VLA-EC (OEL STEL)	568 mg/m ³ 150 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 2017. INSHT
Sweden - Occupational Exposure Limits	
Local name	1-Metoxi-2-propanol

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1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
NGV (OEL TWA)	190 mg/m ³
	50 ppm
KGV (OEL STEL)	568 mg/m ³
	150 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2015:7)
United Kingdom - Occupational Exposure Limits	
Local name	1-Methoxypropan-2-ol
WEL TWA (OEL TWA)	375 mg/m ³
	100 ppm
WEL STEL (OEL STEL)	560 mg/m ³
	150 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. HSE
Norway - Occupational Exposure Limits	
Local name	1-metoksy-2-propanol (Propylenglykolmonometyleter)
Grenseverdi (OEL TWA)	180 mg/m ³
	50 ppm
Regulatory reference	Arbeidstilsynet. Forskrift, best.nr. 704
Switzerland - Occupational Exposure Limits	
Local name	1-Methoxypropanol-2 (PGME)
MAK (OEL TWA)	360 mg/m ³
	360 mg/m ³
	360 mg/m ³
	100 ppm
	100 ppm
	100 ppm
KZGW (OEL STEL)	720 mg/m ³
	720 mg/m ³
	720 mg/m ³
	200 ppm
	200 ppm
	200 ppm
Remark	B SS _c - ZNS, Auge ^{KT HU}
benzyl acetate (140-11-4)	
Belgium - Occupational Exposure Limits	
Local name	Acétate de benzyle # Benzylacetaat
OEL TWA	62 mg/m ³
	10 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/03/2002

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benzyl acetate (140-11-4)	
Denmark - Occupational Exposure Limits	
Local name	Benzylacetat
OEL TWA	61 mg/m ³
	10 ppm
Regulatory reference	BEK nr 986 af 11/10/2012
Latvia - Occupational Exposure Limits	
Local name	Benzilacetāts (etiķskābesbenzilesteris)
OEL TWA	5 mg/m ³
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325
Lithuania - Occupational Exposure Limits	
Local name	Acetacto rūgšties metilbenzilo esteris
IPRV (OEL TWA)	5 mg/m ³
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011
Portugal - Occupational Exposure Limits	
Local name	Acetato de benzilo
OEL TWA	10 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Acetat de benzil
OEL TWA	50 mg/m ³
	8 ppm
OEL STEL	80 mg/m ³
	13 ppm
Regulatory reference	Legea 319/2006 privind Securitatea și sănătatea în muncă și HG nr. 1/2012 de modificare și completare a HG 1218/2006
Spain - Occupational Exposure Limits	
Local name	Acetato de bencilo
VLA-ED (OEL TWA)	62 mg/m ³
	10 ppm
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2017. INSHT
Bicyclo[2.2.1]Heptan-2-One, 1,7,7-Trimethyl- (76-22-2)	
Austria - Occupational Exposure Limits	
Local name	Kampfer
MAK (OEL TWA)	13 mg/m ³
	2 ppm
Regulatory reference	BGBl. II Nr. 186/2015
Belgium - Occupational Exposure Limits	
Local name	Camphre (synthétique) # Kamfer (synthetisch)
OEL TWA	12 mg/m ³

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Bicyclo[2.2.1]Heptan-2-One, 1,7,7-Trimethyl- (76-22-2)	
	2 ppm
OEL STEL	19 mg/m ³
	3 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/03/2002
Bulgaria - Occupational Exposure Limits	
Local name	Камфор
OEL TWA	12 mg/m ³
OEL STEL	18 mg/m ³
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа
Croatia - Occupational Exposure Limits	
Local name	Bornan-2-on
GVI (OEL TWA)	13 mg/m ³
	2 ppm
KGVI (OEL STEL)	19 mg/m ³
	3 ppm
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN, br. 75/13)
Denmark - Occupational Exposure Limits	
Local name	Campher, syntetisk
OEL TWA	12 mg/m ³
	2 ppm
Regulatory reference	BEK nr 986 af 11/10/2012
Finland - Occupational Exposure Limits	
Local name	Kamferi
HTP (OEL TWA)	1,9 mg/m ³
	0,3 ppm
HTP (OEL STEL)	5,7 mg/m ³
	0,9 ppm
Regulatory reference	HTP-ARVOT 2016 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Camphre
VME (OEL TWA)	12 mg/m ³
	2 ppm
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Greece - Occupational Exposure Limits	
OEL TWA	12 mg/m ³
OEL STEL	18 mg/m ³

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Bicyclo[2.2.1]Heptan-2-One, 1,7,7-Trimethyl- (76-22-2)	
Ireland - Occupational Exposure Limits	
Local name	Bornan-2-one
OEL TWA	12 mg/m ³
	2 ppm
OEL STEL	18 mg/m ³
	3 ppm
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016
Lithuania - Occupational Exposure Limits	
Local name	Kamparas
IPRV (OEL TWA)	3 mg/m ³
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011
Poland - Occupational Exposure Limits	
Local name	Kamfora syntetyczna bornan-2-on
NDS (OEL TWA)	12 mg/m ³
NDSch (OEL STEL)	18 mg/m ³
Regulatory reference	Dz.U. 2014 poz. 817
Portugal - Occupational Exposure Limits	
Local name	Cânfora (sintética)
OEL TWA	2 ppm
OEL STEL	3 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Camfor
OEL TWA	1 mg/m ³
	6 ppm
OEL STEL	3 mg/m ³
	18 ppm
Regulatory reference	Legea 319/2006 privind Securitatea și sănătatea în muncă și HG nr. 1/2012 de modificare și completare a HG 1218/2006
Slovakia - Occupational Exposure Limits	
Local name	Gáfor (bornán-2-ón)
NPHV (OEL TWA)	13 mg/m ³
	2 ppm
NPHV (OEL STEL)	26 mg/m ³
	4 ppm
Regulatory reference	Nariadenie vlády č. 471/2011 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	kafra
OEL TWA	13 mg/m ³

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Bicyclo[2.2.1]Heptan-2-One, 1,7,7-Trimethyl- (76-22-2)	
	2 ppm
Regulatory reference	Uradni list RS, št. 102/2010 z dne 17.12.2010
Spain - Occupational Exposure Limits	
Local name	Alcanfor sintético
VLA-ED (OEL TWA)	13 mg/m ³ 2 ppm
VLA-EC (OEL STEL)	19 mg/m ³ 3 ppm
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2017. INSHT
United Kingdom - Occupational Exposure Limits	
Local name	Bornan-2-one
WEL TWA (OEL TWA)	13 mg/m ³ 2 ppm
WEL STEL (OEL STEL)	19 mg/m ³ 3 ppm
Regulatory reference	EH40. HSE
Iceland - Occupational Exposure Limits	
Local name	Kamfóra
OEL TWA	12 mg/m ³ 2 ppm
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Norway - Occupational Exposure Limits	
Local name	Kamfer (syntetisk)
Grenseverdi (OEL TWA)	12 mg/m ³ 2 ppm
Regulatory reference	Arbeidstilsynet. Forskrift, best.nr. 704
Switzerland - Occupational Exposure Limits	
Local name	Campher (s. Kampfer)
MAK (OEL TWA)	13 mg/m ³ 13 mg/m ³ 2 ppm 2 ppm
Remark	Auge & OAW - NIOSH
2,6-di-tert-butyl-p-cresol (128-37-0)	
Austria - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-kresol
MAK (OEL TWA)	10 mg/m ³
Regulatory reference	BGBl. II Nr. 186/2015

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2,6-di-tert-butyl-p-cresol (128-37-0)	
Belgium - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-crésol (vapeur et aérosol) # Di-tert-butyl-4-méthylfenol (damp en aérosol)
OEL TWA	2 mg/m ³
Regulatory reference	Koninklijk besluit/Arrêté royal 11/03/2002
Bulgaria - Occupational Exposure Limits	
Local name	Дибутилпаракрезол
OEL TWA	10 mg/m ³
OEL STEL	50 mg/m ³
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа
Croatia - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-krezol
GVI (OEL TWA)	10 mg/m ³
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN, br. 75/13)
Denmark - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-cresol (Butylhydroxytoluen)
OEL TWA	10 mg/m ³
Regulatory reference	BEK nr 986 af 11/10/2012
Finland - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyli-p-kresoli
HTP (OEL TWA)	10 mg/m ³
HTP (OEL STEL)	20 mg/m ³
Regulatory reference	HTP-ARVOT 2016 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-crésol
VME (OEL TWA)	10 mg/m ³
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	2,6-Di-tert-butyl-p-kresol
AGW (OEL TWA)	10 mg/m ³ (E)
Remark	DFG;Y;11
Regulatory reference	TRGS900
Greece - Occupational Exposure Limits	
OEL TWA	10 mg/m ³
Ireland - Occupational Exposure Limits	
Local name	2,6-Ditertiary-butyl-para- cresol

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2,6-di-tert-butyl-p-cresol (128-37-0)	
OEL TWA	10 mg/m ³
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016
Portugal - Occupational Exposure Limits	
Local name	Hidroxitoluenobutilado (2,6-Di-terc-butil-p-cresol) (BHT)
OEL TWA	2 mg/m ³ FIV (Fração inalável e vapor)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovenia - Occupational Exposure Limits	
Local name	2,6-di-terc-butil-p-krezol
OEL TWA	10 mg/m ³
Regulatory reference	Uradni list RS, št. 102/2010 z dne 17.12.2010
Spain - Occupational Exposure Limits	
Local name	2,6-Diterc-butil-p-cresol
VLA-ED (OEL TWA)	10 mg/m ³
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2017. INSHT
United Kingdom - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-cresol
WEL TWA (OEL TWA)	10 mg/m ³
Regulatory reference	EH40. HSE
Iceland - Occupational Exposure Limits	
Local name	2,6-Dí-terc-bútýl-p -kresól (bútýlhýdroxýtólúen)
OEL TWA	10 mg/m ³
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Switzerland - Occupational Exposure Limits	
Local name	Butylhydroxytoluol (BHT)
MAK (OEL TWA)	10 mg/m ³ 10 mg/m ³
KZGW (OEL STEL)	40 mg/m ³ 40 mg/m ³
Remark	e(mg/m ³) - C1 _B * SS _C - Leber - *Kein erhöhtes Krebsrisiko bei Einhalten des MAK-Werts ^s . 1.3.2.3
Citral (5392-40-5)	
Poland - Occupational Exposure Limits	
Local name	3,7-Dimetylookta-2,6-dienal (cytral)
NDS (OEL TWA)	27 mg/m ³
NDSch (OEL STEL)	54 mg/m ³
Regulatory reference	Dz.U. 2014 poz. 817
Spain - Occupational Exposure Limits	
Local name	Citral
VLA-ED (OEL TWA)	5 ppm

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Citral (5392-40-5)	
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), Sen (Sensibilizante), FIV (Fracción inhalable y vapor. La notación FIV señala a aquellos agentes químicos que se pueden presentar en el ambiente de trabajo, tanto en forma de materia particulada como vapor, por lo que las dos fases pueden coexistir, contribuyendo ambas a la exposición. Esta situación se puede dar, principalmente, en los siguientes casos: • Cuando el agente en cuestión tiene un valor "intermedio" de presión de vapor (en estos casos se tiene en cuenta la relación entre su concentración en el aire saturado de vapor y el valor del VLA-ED® y la nota se asigna, generalmente, cuando el cociente entre ambas cantidades se encuentra entre 0.1 y 10). • Por razón de la forma de uso del agente químico (por ejemplo, pulverización). • En los procesos que conlleven cambios importantes de temperatura que puedan afectar al estado físico del agente químico. • En los procesos en los que una fracción significativa del vapor puede disolverse o adsorberse en las partículas de otra sustancia, a semejanza de lo que ocurre con los agentes solubles en agua en ambientes con humedad elevada).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2017. INSHT
benzaldehyde (100-52-7)	
Bulgaria - Occupational Exposure Limits	
Local name	Бензалдехид
OEL TWA	5 mg/m ³
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа
Finland - Occupational Exposure Limits	
Local name	Bentsaldehydi
HTP (OEL TWA)	4,4 mg/m ³ 1 ppm
HTP (OEL STEL)	17,4 mg/m ³ kattoarvo 4 ppm kattoarvo
Regulatory reference	HTP-ARVOT 2016 (Sosiaali- ja terveystieteiden ministeriö)
Hungary - Occupational Exposure Limits	
Local name	BENZALDEHID
AK (OEL TWA)	5 mg/m ³
CK (OEL STEL)	10 mg/m ³
Latvia - Occupational Exposure Limits	
Local name	Benzaldehyds
OEL TWA	5 mg/m ³
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325
Lithuania - Occupational Exposure Limits	
Local name	Benzaldehidas
IPRV (OEL TWA)	5 mg/m ³
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011

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benzaldehyde (100-52-7)	
Poland - Occupational Exposure Limits	
Local name	Benzaldehyd (benzoesowy aldehyd)
NDS (OEL TWA)	10 mg/m ³
NDSch (OEL STEL)	40 mg/m ³
Regulatory reference	Dz.U. 2014 poz. 817
(R)-p-mentha-1,8-diene (D-Limonene) (5989-27-5)	
Finland - Occupational Exposure Limits	
Local name	D-Limoneeni
HTP (OEL TWA)	140 mg/m ³
	25 ppm
HTP (OEL STEL)	280 mg/m ³
	50 ppm
Regulatory reference	HTP-ARVOT 2016 (Sosiaali- ja terveystieteiden ministeriö)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	(R)-p-Mentha-1,8-dien (D-Limonen)
AGW (OEL TWA)	28 mg/m ³
	5 ppm
Remark	DFG;H;Sh;Y
Regulatory reference	TRGS900
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	168 mg/m ³ d-Limoneno
	30 ppm d-Limoneno
Remark	Entrada en vigor en 2018. Sen (Sensibilizante. Véase Apartado 6), 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. Para más información véase el Apartado 5 de este documento).
Norway - Occupational Exposure Limits	
Local name	d-limonen (Limonen)
Grenseverdi (OEL TWA)	140 mg/m ³
	25 ppm
Regulatory reference	Arbeidstilsynet. Forskrift, best.nr. 704
Switzerland - Occupational Exposure Limits	
Local name	D-Limonen
MAK (OEL TWA)	40 mg/m ³
	7 ppm
KZGW (OEL STEL)	80 mg/m ³
	14 ppm
Remark	S SS _c - Leber ^{KT AN}

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(R)-p-mentha-1,8-diene (D-Limonene) (5989-27-5)

Regulatory reference	SUVA - Grenzwerte am Arbeitsplatz 2016
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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 (additional information)

See http	//www.dguv.de/ifa/de/gestis/limit_values/index.jsp: Information on ingredients.
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n-butyl acetate (123-86-4)

DNEL/DMEL (Workers)

Acute - systemic effects, inhalation	960 (≥ 600) mg/m ³
Acute - local effects, inhalation	960 (≥ 600) mg/m ³
Long-term - systemic effects, dermal	11 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	480 (≥ 300) mg/m ³
Long-term - local effects, inhalation	480 (≥ 300) mg/m ³

DNEL/DMEL (General population)

Acute - systemic effects, dermal	6 mg/kg bw/day
Acute - systemic effects, inhalation	859,7 (≥ 300) mg/m ³
Acute - systemic effects, oral	2 mg/kg bodyweight
Acute - local effects, inhalation	859,7 (≥ 300) mg/m ³
Long-term - systemic effects, oral	2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	102,34 (≥ 35,7) mg/m ³
Long-term - systemic effects, dermal	6 mg/kg bodyweight/day
Long-term - local effects, inhalation	102,34 (≥ 35,7) mg/m ³

PNEC (Water)

PNEC aqua (freshwater)	0,18 mg/l
PNEC aqua (marine water)	0,018 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	0,981 mg/kg dwt
PNEC sediment (marine water)	0,0981 mg/kg dwt

PNEC (Soil)

PNEC soil	0,0903 mg/kg dwt
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PNEC (STP)

PNEC sewage treatment plant	0,36 mg/l
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ethyl acetate (141-78-6)

DNEL/DMEL (Workers)

Acute - systemic effects, inhalation	1468 mg/m ³
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ethyl acetate (141-78-6)	
Acute - local effects, inhalation	1468 mg/m ³
Long-term - systemic effects, dermal	63 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	734 mg/m ³
Long-term - local effects, inhalation	734 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	734
Acute - local effects, inhalation	734 mg/m ³
Long-term - systemic effects, oral	4,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	367 mg/m ³
Long-term - systemic effects, dermal	37 mg/kg bodyweight/day
Long-term - local effects, inhalation	367 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0,24 – 0,26 mg/l
PNEC aqua (marine water)	0,024 – 0,026 mg/l
PNEC aqua (intermittent, freshwater)	1,65 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,34 – 1,15 mg/kg dwt
PNEC sediment (marine water)	0,034 – 0,115 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,148 – 0,22 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	200 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	650 mg/l
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	553,5 mg/m ³
Long-term - systemic effects, dermal	50,6 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	369 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	3,3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	43,9 mg/m ³
Long-term - systemic effects, dermal	18,1 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	10 mg/l
PNEC aqua (marine water)	1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	41,6 mg/kg dwt

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1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)

PNEC sediment (marine water)	4,17 mg/kg dwt
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PNEC (Soil)

PNEC soil	2,47 mg/kg dwt
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PNEC (STP)

PNEC sewage treatment plant	100 mg/l
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8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid contact with skin, eyes and clothing. Avoid all unnecessary exposure. Eye protection. eye protection.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Wear eye/face protection. Chemical goggles or safety glasses. Standard. ISO 16321-1. Eye protection should only be necessary where liquid could be splashed or sprayed

8.2.2.2. Skin protection

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use. If repeated skin contact or contamination of clothing is likely, protective clothing should be worn

Hand protection:

In case of repeated or prolonged contact wear gloves. protective gloves. Chemical resistant gloves (according to European standard NF ISO 374-1 or equivalent). Time of penetration is to be checked with the glove producer

Hand protection

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves / Reusable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	2 (> 30 minutes)	> 0.1 mm		EN 374-3

8.2.2.3. Respiratory protection

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. No special protection required where adequate ventilation is maintained

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke when using this product. The information in this section applies to the undiluted product.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: > 36 °C
Flammability	: Highly flammable liquid and vapour.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 10,5 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: < 11,148 mm ² /s
Viscosity, dynamic	: < 10 mPa·s (20°C)
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 0,897 g/cm ³
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture. The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Not established.

10.6. Hazardous decomposition products

Thermal decomposition generates : fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

n-butyl acetate (123-86-4)

LD50 oral rat	10760 mg/kg
LD50 oral	10700 mg/kg bodyweight
LD50 dermal rabbit	> 14000 mg/kg
LD50 dermal	> 14100 mg/kg bodyweight
LC50 Inhalation - Rat	> 20 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	> 21100 mg/l/4h

ethyl acetate (141-78-6)

LD50 oral	4934 mg/kg (rabbit, OECD 401)
LD50 dermal rabbit	> 5000 mg/kg (> 20000 mg/kg)
LD50 dermal	> 18000 mg/kg bodyweight
LC50 Inhalation - Rat	22,5 mg/l (6h)
LC50 Inhalation - Rat (Dust/Mist)	57700 mg/l/4h

1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)

LD50 oral rat	4016 – 5000 mg/kg
LD50 oral	3739 mg/kg bodyweight
LD50 dermal rabbit	13500 mg/kg
LD50 dermal	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	6 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	> 26315 mg/l/4h

benzyl acetate (140-11-4)

LD50 oral rat	2490 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

Bicyclo[2.2.1]Heptan-2-One, 1,7,7-Trimethyl- (76-22-2)

LD50 oral	1310 mg/kg
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2,6-di-tert-butyl-p-cresol (128-37-0)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg

Citral (5392-40-5)

LD50 oral rat	3450 – 4960 mg/kg
LD50 dermal rat	> 2000 mg/kg
LD50 dermal rabbit	2250 mg/kg

benzaldehyde (100-52-7)

LD50 oral rat	1300 mg/kg
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benzaldehyde (100-52-7)	
LD50 dermal rabbit	1250 mg/kg
(R)-p-mentha-1,8-diene (D-Limonene) (5989-27-5)	
LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	5000 mg/kg
Skin corrosion/irritation	: Not classified
Additional information	: Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: May cause drowsiness or dizziness.
n-butyl acetate (123-86-4)	
STOT-single exposure	May cause drowsiness or dizziness.
ethyl acetate (141-78-6)	
STOT-single exposure	May cause drowsiness or dizziness.
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
NOAEL (oral, rat)	919 mg/kg bodyweight
NOAEL (dermal, rat/rabbit)	> 1000 mg/kg bodyweight
NOAEC (inhalation, rat, vapour)	3,7 mg/l
STOT-single exposure	May cause drowsiness or dizziness.
Bicyclo[2.2.1]Heptan-2-One, 1,7,7-Trimethyl- (76-22-2)	
STOT-single exposure	May cause damage to organs.
benzaldehyde (100-52-7)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
ethyl acetate (141-78-6)	
LOAEL (oral, rat, 90 days)	3600 mg/kg bodyweight/day (90-92d)
NOAEL (oral, rat, 90 days)	900 mg/kg bodyweight/day (90-92d)
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
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Viscosity, kinematic	< 11,148 mm ² /s
n-butyl acetate (123-86-4)	
Viscosity, kinematic	0,84 mm ² /s
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
Viscosity, kinematic	2 mm ² /s

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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : See Section 2.3.

11.2.2. Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met, With the product as such no toxicological tests have been done. According to the criteria of art. 3 from (EC) Nr. 1272/2008 [CLP] this product is classified as mentioned in section 2. Components that are toxic are mentioned in section 3.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : With the product as such no ecological tests have been done. According to the criteria of art. 3 from (EC) Nr. 1272/2008 [CLP] this product is classified concerning the environment as mentioned in section 2. Components that are dangerous to the environment are mentioned in section 3.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

n-butyl acetate (123-86-4)

LC50 - Fish [1]	18 (96h, Pimephales promelas)
EC50 - Crustacea [1]	44 (48h)
EC50 - Other aquatic organisms [1]	647,7
EC50 - Other aquatic organisms [2]	648 mg/l IC50 algea (72 h) mg/l

ethyl acetate (141-78-6)

LC50 - Fish [1]	> 230 mg/l (96h, Pimephales Promelas)
EC50 - Crustacea [1]	> 164 mg/l (24h, Daphnia magna)
EC50 - Crustacea [2]	610 mg/l
EC50 - Other aquatic organisms [1]	717 mg/l EC50 waterflea (48 h)
EC50 72h - Algae [1]	3300 mg/l IC50 algea (72 h) mg/l
EC50 72h - Algae [2]	5600 mg/l (48h, Desmodesmus subspicatus, DIN 38412)
EC50 96h - Algae [1]	2500 mg/l (96h)
NOEC chronic fish	> 9,65 mg/l (32d, Pimephales promelas)
NOEC chronic crustacea	> 100 mg/l (72h, Daphnia magna) (2,4 mg/l; 21d, Daphnia magna, OECD 211)
NOEC chronic algae	> 100 mg/l (72h, Desmodesmus subspicatus, OECD 201)

1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)

LC50 - Fish [1]	> 4000 (4000 – 10000) mg/l (96h, Leuciscus idus)
LC50 - Fish [2]	20800 mg/l (96h, Pimephales promelas)
EC50 - Crustacea [1]	23300 mg/l (48h)
EC50 - Crustacea [2]	> 500 mg/l (48h)
EC50 - Other aquatic organisms [1]	23300 mg/l EC50 waterflea (48 h)
EC50 - Other aquatic organisms [2]	> 500 mg/l IC50 algea (72 h) mg/l

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1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
EC50 72h - Algae [1]	> 1000 mg/l (72h, Pseudokirchneriella subcapitata)
benzyl acetate (140-11-4)	
LC50 - Fish [1]	4 mg/l (96h, Oryzias latipes)
EC50 - Crustacea [1]	17 mg/l (48h)
EC50 - Other aquatic organisms [1]	855 mg/l (3h, Microorganism)
EC50 72h - Algae [1]	114 mg/l (72h)
NOEC chronic algae	52 mg/l (72h)
Bicyclo[2.2.1]Heptan-2-One, 1,7,7-Trimethyl- (76-22-2)	
LC50 - Fish [1]	17 mg/l (96h)
2,6-di-tert-butyl-p-cresol (128-37-0)	
EC50 - Crustacea [1]	0,61 mg/l (48h)
EC50 - Other aquatic organisms [1]	> 10000 mg/l (3h, bacteriaceae)
Citral (5392-40-5)	
LC50 - Fish [1]	4,6 – 10 mg/l (96h)
EC50 - Crustacea [1]	7 mg/l (48h)
EC50 - Other aquatic organisms [1]	103,8 (72h, hydrophytes)
(R)-p-mentha-1,8-diene (D-Limonene) (5989-27-5)	
LC50 - Fish [1]	0,7 mg/l (96h, Pimephales promelas)
LC50 - Fish [2]	< 1 mg/l (96h)
LC50 - Other aquatic organisms [1]	0,67 mg/l (48h, Daphnia magna, OECD 202)
EC50 - Crustacea [1]	0,4 mg/l (48h)
EC50 - Crustacea [2]	< 1 mg/l (48h)
EC50 72h - Algae [1]	< 1 mg/l (72h, IC50)
EC50 72h - Algae [2]	150 mg/l (72h, Desmodesmus subspicatus, OECD 201)
12.2. Persistence and degradability	
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Persistence and degradability	Not established.
ethyl acetate (141-78-6)	
Biodegradation	79 % (20d, OECD 301D)
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
Persistence and degradability	Readily biodegradable.
Biodegradation	> 70 % (OECD 301 E) (96 %: 28 days)
benzyl acetate (140-11-4)	
Biodegradation	92 %
Bicyclo[2.2.1]Heptan-2-One, 1,7,7-Trimethyl- (76-22-2)	
Biodegradation	77 % (28d, OECD 301F)

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(R)-p-mentha-1,8-diene (D-Limonene) (5989-27-5)

Biodegradation	72 – 83,4 % (OECD 301 B)
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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n-butyl acetate (123-86-4)

Partition coefficient n-octanol/water (Log Pow)	2,3
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Partition coefficient n-octanol/water (Log Kow)	1,85
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ethyl acetate (141-78-6)

Bioconcentration factor (BCF REACH)	30 (3d)
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Partition coefficient n-octanol/water (Log Pow)	0,68
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Partition coefficient n-octanol/water (Log Kow)	0,86
---	------

1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)

Partition coefficient n-octanol/water (Log Pow)	-0,437
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Partition coefficient n-octanol/water (Log Kow)	-0,49
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benzyl acetate (140-11-4)

Bioconcentration factor (BCF REACH)	8
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Partition coefficient n-octanol/water (Log Pow)	1,49
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Partition coefficient n-octanol/water (Log Kow)	1,96
---	------

Bicyclo[2.2.1]Heptan-2-One, 1,7,7-Trimethyl- (76-22-2)

Partition coefficient n-octanol/water (Log Pow)	2,38
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Partition coefficient n-octanol/water (Log Kow)	3,04
---	------

2,6-di-tert-butyl-p-cresol (128-37-0)

Partition coefficient n-octanol/water (Log Pow)	4,17
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Partition coefficient n-octanol/water (Log Kow)	5,1
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Citral (5392-40-5)

Partition coefficient n-octanol/water (Log Kow)	3,45
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benzaldehyde (100-52-7)

Partition coefficient n-octanol/water (Log Kow)	1,48
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(R)-p-mentha-1,8-diene (D-Limonene) (5989-27-5)

Partition coefficient n-octanol/water (Log Kow)	4,38
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

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12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : See Section 2.3.

12.7. Other adverse effects

Additional information : Avoid release to the environment.






SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : This material and its container must be disposed of in a safe way, and as per local legislation. Product as it is : Chemical refuse, Dispose as hazardous waste. Empty containers can be dumped after cleaning according to local legislation. Recycling is preferred to disposal or incineration. Empty the packaging completely prior to disposal. Wash away remainder with plenty of water.
Additional information : Handle empty containers with care because residual vapours are flammable.
Ecological information : Avoid release to the environment.
European List of Waste (LoW, EC 2000/532) : 20 01 29* - detergents containing dangerous substances

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 1993	UN 1993	UN 1993	UN 1993	UN 1993
14.2. UN proper shipping name				
FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	Flammable liquid, n.o.s.	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.
Transport document description				
UN 1993 FLAMMABLE LIQUID, N.O.S. (ethyl acetate ; n-butyl acetate ; 1-methoxy-2-propanol; monopropylene glycol methyl ether), 3, II, (D/E)	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethyl acetate ; n-butyl acetate ; beta-caryophyllene ; 1-methoxy-2-propanol; monopropylene glycol methyl ether), 3, II	UN 1993 Flammable liquid, n.o.s. (ethyl acetate ; n-butyl acetate ; 1-methoxy-2-propanol; monopropylene glycol methyl ether), 3, II	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethyl acetate ; n-butyl acetate ; 1-methoxy-2-propanol; monopropylene glycol methyl ether), 3, II	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethyl acetate ; n-butyl acetate ; 1-methoxy-2-propanol; monopropylene glycol methyl ether), 3, II
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No

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ADR	IMDG	IATA	ADN	RID
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: F1
Special provisions (ADR)	: 274, 601, 640D
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP1, TP8, TP28
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2, S20
Hazard identification number (Kemler No.)	: 33
Orange plates	: 
Tunnel restriction code (ADR)	: D/E
EAC code	: •3YE

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)	: T7
Tank special provisions (IMDG)	: TP1, TP28, TP8
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: B

Air transport

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3H

Inland waterway transport

Classification code (ADN)	: F1
Special provisions (ADN)	: 274, 601, 640D
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1

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Rail transport

Classification code (RID)	: F1
Special provisions (RID)	: 274, 601, 640D
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP1, TP8, TP28
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Detergent Regulation (648/2004)

Allergenic fragrances > 0.01 %:

HEXYL CINNAMAL

LINALOOL

Labelling of contents	
Component	%
non-ionic surfactants	<5%
perfumes	
HEXYL CINNAMAL	
LINALOOL	

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

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Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

France

Occupational diseases	
Code	Description
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

ABM category : B(3) - hazardous for aquatic organisms
SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : 2-methoxypropanol is listed

Denmark

Class for fire hazard : Class I-1
Store unit : 1 liter
Classification remarks : F <Flam. Liq. 2>; 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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

Raw materials information section 3.

See <http://esis.jrc.ec.europa.eu/index.php?PGM=dat> : Information on ingredients.

Health hazards

See Section 2 & 3 & 11.

Physical hazards

See Section 2 & 10.

Environmental hazards

See Section 2 & 3 & 12.

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Issue date	Modified	
	Revision date	Modified	
	Supersedes	Modified	
	Version	Modified	Major

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Indication of changes			
Section	Changed item	Change	Comments
	Labelling according to Regulation (EC) No. 1272/2008 [CLP]	Modified	

Abbreviations and acronyms:	
	ABM: Algemene Beoordelings Methodiek (NL) / ADR: Accord Européen relatif au transport international des marchandises dangereuses par route) / ALG: Allergen / AQTX: Aquatic Toxicity / Atm: Atmosphere (unit of pressure) / bw: bodyweight / C: Ceiling / CAR: Carcinogenic Effects / CAS No: Chemical Abstracts Service Number (see ACS – American Chemical Society) / CMRs: Carcinogenic, Mutagenic or toxic to Reproduction (substances) / CSR: Chemical Safety Report / Cc (cm3): Cubic Centimeter / DNEL: Derived No-Effect Level / EC50: half maximal effective concentration / ED50: Effective Dose 50 / ET50: Exposure Time 50 / I.V.: Intravenous / Kg: Kilogram / LC: Lethal Concentration / LC50: Median Lethal Concentration / LCLO: Lowest Lethal Airborne Concentration Tested (see also LC50, LD50) / LD: Lethal Dose / LD50: Median Lethal Dose LDLO: Lowest Lethal Dose Tested (see also LC50, LD50) / MAC: Maximum Allowable Concentration / MAK: Maximale Arbeitsplatz-Konzentration (Germany, Maximum Workplace Concentration, see OEL) / MSDS: Material Safety Data Sheet / NOAEL: No Observed Adverse Effect Level / NOEL: No Observable Effect Level / OEL: Occupational Exposure Limits / PBTs: Persistent, Bioaccumulative and Toxic substances / PEC: Predicted Environmental Concentration / PNEC: Predicted No-Effect Concentration / REACH: Registration, Evaluation, Authorisation and Restriction of Chemical substances / STEL: Short-Term Exposure Limit / STEV: Short-Term Exposure Value / STP: Sewage Treatment Plant TLM: Threshold Limit, Median / TLV-C: Threshold Limit Value-Ceiling / TLV®: Threshold Limit Value / TWA: Time-Weighted Average / WGK: Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act) / g/gms: Grams / kJ/mol: Kilojoules per mole / kPa: KiloPascal (unit of pressure) / m3: Cubic Meter / mg: Milligram / ml: Milliliter / ml Hg: Milliliters of Mercury / n.o.s.: Not Otherwise Specified / nm: nanometer / ppb: Parts Per Billion / pph: parts per hundred (= percent) / ppm: Parts Per Million / ppt: parts per trillion / vPvBs: Very Persistent and Very Bioaccumulative substances
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
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
EC50	Median effective concentration
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
PBT	Persistent Bioaccumulative Toxic

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Abbreviations and acronyms:

PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
TLM	Median Tolerance Limit
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Data sources : Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Regulation (EC) No. 648/2004 of 31 March 2004 on detergents.

Other information : None. DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) 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 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Sol. 2	Flammable solids, Category 2
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.

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Full text of H- and EUH-statements:	
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
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.
H336	May cause drowsiness or dizziness.
H371	May cause damage to organs.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 2	Specific target organ toxicity – Single exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

Full text of use descriptors	
AISE SPERC 8a.1.a.v2	Wide Dispersive Use in 'Down the Drain' cleaning and maintenance products (Consumers and Professionals)
ERC8a	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
PC31	Polishes and wax blends
PC35	Washing and cleaning products
PROC11	Non industrial spraying
PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
SU21	Consumer uses: Private households (= general public = consumers)
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

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.