



NETTOYANT CARBURATEUR BARD AHL

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Reference number: 3456
Issue date: 23-01-15 Revision date: 16-05-22 Supersedes version of: 12-12-17 Version: 2.1

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

1.1. Product identifier

Product form : Mixture
Product name : NETTOYANT CARBURATEUR BARD AHL
UFI : CFDR-PXTK-290S-KWG6
Product code : 3456 # 736345R5
Type of product : Detergent,Aerosol
Vaporizer : Aerosol

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

1.2.1. Relevant identified uses

Intended for general public
Main use category : Consumer use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor

SADAPS BARD AHL Additives & Lubricants
ZI TOURNAI OUEST 2 - RUE DU MONT DES CARLIERS, 3
7522 TOURNAI
BELGIQUE
T +32 (0).69.59.03.60 - F +32 (0).69.59.03.61
msds@bardahlfrance.com - www.bardahl.fr

Supplier

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1.4. Emergency telephone number

Emergency number : + 32 (0)70.245.245 / +33 (0)1.45.42.59.59

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 MSD 2090 Msida	+356 2545 6508	
Saudi Arabia	Poison Control Center-Riyadh	General Directorate of Health Affairs Medial Province	+966 112324180 +966 112324189	
United Arab Emirates	Health Authority – Abu Dhabi (HAAD) Poison & Drug Information Center (PDIC)	P.O. Box 5674 Abu Dhabi	+ 800-424	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aerosol, Category 1	H222;H229
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity — Repeated exposure, Category 2	H373
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412

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

Adverse physicochemical, human health and environmental effects

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

: xylene (mixture)

Hazard statements (CLP)

: H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H373 - May cause damage to organs through prolonged or repeated exposure.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P260 - Do not breathe gas, vapours.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, eye protection, face protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER, doctor if you feel unwell.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container to a hazardous or special waste collection point.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C, 122 °F.

Extra phrases

: Use as per instructions and specifically for this purpose.

Child-resistant fastening

: Not applicable

Tactile warning

: Applicable

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2.3. Other hazards

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

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]
xylene (mixture) substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, FR, GB, HU, IE, IT, LV, NL, PL, RO, SE); substance with a Community workplace exposure limit	CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9 REACH-no: 01-2119488216-32	30 - 60	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
propane substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, LV, PL, RO) (Note U)	CAS-No.: 74-98-6 EC-No.: 200-827-9 EC Index-No.: 601-003-00-5 REACH-no: 01-2119486944-21	15 - 30	Flam. Gas 1A, H220 Press. Gas Press. Gas (Comp.), H280
butane (<0.1% (203-450-8)) substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, FR, GB, HU, IE, LV, PL) (Note C)(Note U)	CAS-No.: 106-97-8 EC-No.: 203-448-7 EC Index-No.: 601-004-00-0 REACH-no: 01-2119474691-32	10 - 20	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
Ethylbenzene substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, FR, GB, HU, IE, IT, LV, NL, PL, RO, SE); substance with a Community workplace exposure limit	CAS-No.: 100-41-4 EC-No.: 202-849-4 EC Index-No.: 601-023-00-4 REACH-no: 01-2119489370-35	< 20	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics substance with national workplace exposure limit(s) (FR)	CAS-No.: 64742-49-0 EC-No.: 927-510-4 REACH-no: 01-2119475515-33	5 - 15	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Acetone substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, FR, GB, HU, IE, IT, LV, NL, PL, RO, SE); substance with a Community workplace exposure limit	CAS-No.: 67-64-1 EC-No.: 200-662-2 EC Index-No.: 606-001-00-8	1-10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
(2-methoxymethylethoxy)propanol substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, FR, GB, HU, IE, IT, LV, NL, PL, RO, SE); substance with a Community workplace exposure limit	CAS-No.: 34590-94-8 EC-No.: 252-104-2 REACH-no: 01-2119450011-60	1-10	Not classified

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Toluene substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, FR, GB, HU, IE, IT, LV, NL, PL, RO, SE); substance with a Community workplace exposure limit	CAS-No.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3 REACH-no: 01-2119471310-51	< 0.5	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note U (Table 3): When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case.

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 medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Remove contaminated clothes. Wash skin with plenty of water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.

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	: Halons. AFFF foam. Water fog. Water spray. Foam. ABC-powder. BC-powder. Carbon dioxide.
Unsuitable extinguishing media	: Water.

5.2. Special hazards arising from the substance or mixture

Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Hazardous decomposition products in case of fire	: Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

5.3. Advice for firefighters

Firefighting instructions	: Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

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Other information : Prevent liquid from entering sewers, watercourses, underground or low areas.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Eliminate every possible source of ignition. Ensure adequate ventilation, especially in confined areas. Keep public away from danger area. Equip cleanup crew with proper protection.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Dike for recovery or absorb with appropriate material. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Recover the product with absorbent material.
Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not eat, drink or smoke when using this product. Provide good ventilation in process area to prevent formation of vapour. For further information refer to section 8: "Exposure controls/personal protection". Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.
Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation.
Storage conditions : Keep out of frost.
Maximum storage period : 36 months
Heat and ignition sources : Keep away from naked flames/heat. Keep away from ignition sources. Do not expose to temperatures exceeding 50 °C/ 122 °F.
Information on mixed storage : Keep away from food, drink and animal feeding stuffs.
Storage area : Store in a well-ventilated place. Store in a dry place.
Special rules on packaging : Store in original container.

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

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xylene (mixture) (1330-20-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Xylene, mixed isomers, pure
IOEL TWA	221 mg/m ³
IOEL TWA [ppm]	50 ppm
IOEL STEL	442 mg/m ³
IOEL STEL [ppm]	100 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	221 mg/m ³
MAK (OEL TWA) [ppm]	50 ppm
MAK (OEL STEL)	442 mg/m ³
MAK (OEL STEL) [ppm]	100 ppm
Belgium - Occupational Exposure Limits	
Local name	Xylène, isomères mixtes, purs # Xyleen, mengsel van isomeren, zuiver
OEL TWA	221 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	442 mg/m ³
OEL STEL [ppm]	100 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 21/01/2020
Denmark - Occupational Exposure Limits	
OEL TWA [1]	109 mg/m ³
OEL TWA [2]	25 ppm
OEL STEL	218 mg/m ³
OEL STEL [ppm]	50 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	220 mg/m ³
HTP (OEL TWA) [2]	50 ppm
HTP (OEL STEL)	440 mg/m ³
HTP (OEL STEL) [ppm]	100 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	221 mg/m ³
VME (OEL TWA) [ppm]	50 ppm
VLE (OEL C/STEL)	442 mg/m ³
VLE (OEL C/STEL) [ppm]	100 ppm

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xylylene (mixture) (1330-20-7)	
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	440 mg/m ³
AGW (OEL TWA) [2]	100 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	221 mg/m ³
CK (OEL STEL)	442 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	221 mg/m ³
OEL TWA [2]	50 ppm
OEL STEL	442 mg/m ³
OEL STEL [ppm]	100 ppm
Italy - Occupational Exposure Limits	
OEL TWA	221 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	442 mg/m ³
OEL STEL [ppm]	100 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	221 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	442 mg/m ³
OEL STEL [ppm]	100 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	210 mg/m ³
TGG-15min (OEL STEL)	442 mg/m ³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	100 mg/m ³
NDSch (OEL STEL)	200 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA	221 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	442 mg/m ³
OEL STEL [ppm]	100 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	221 mg/m ³
VLA-ED (OEL TWA) [2]	50 ppm
VLA-EC (OEL STEL)	442 mg/m ³
VLA-EC (OEL STEL) [ppm]	100 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	221 mg/m ³

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xylene (mixture) (1330-20-7)	
NGV (OEL TWA) [ppm]	50 ppm
KTV (OEL STEL)	442 mg/m ³
KTV (OEL STEL) [ppm]	100 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	220 mg/m ³
WEL TWA (OEL TWA) [2]	50 ppm
WEL STEL (OEL STEL)	441 mg/m ³
WEL STEL (OEL STEL) [ppm]	100 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	435 mg/m ³
MAK (OEL TWA) [2]	100 ppm
KZGW (OEL STEL)	870 mg/m ³
KZGW (OEL STEL) [ppm]	200 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	435 mg/m ³
ACGIH OEL TWA [ppm]	100 ppm
Ethylbenzene (100-41-4)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethylbenzene
IOEL TWA	442 mg/m ³
IOEL TWA [ppm]	100 ppm
IOEL STEL	884 mg/m ³
IOEL STEL [ppm]	200 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	440 mg/m ³
MAK (OEL TWA) [ppm]	100 ppm
MAK (OEL STEL)	880 mg/m ³
MAK (OEL STEL) [ppm]	200 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	87 mg/m ³
OEL TWA [ppm]	20 ppm
OEL STEL	551 mg/m ³
OEL STEL [ppm]	125 ppm
Denmark - Occupational Exposure Limits	
OEL TWA [1]	217 mg/m ³
OEL TWA [2]	50 ppm
OEL STEL	434 mg/m ³

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Ethylbenzene (100-41-4)	
OEL STEL [ppm]	100 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	220 mg/m ³
HTP (OEL TWA) [2]	50 ppm
HTP (OEL STEL)	880 mg/m ³
HTP (OEL STEL) [ppm]	200 ppm
France - Occupational Exposure Limits	
Local name	Ethylbenzène
VME (OEL TWA)	88,4 mg/m ³
VME (OEL TWA) [ppm]	20 ppm
VLE (OEL C/STEL)	442 mg/m ³
VLE (OEL C/STEL) [ppm]	100 ppm
Remark	Valeurs réglementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	88 mg/m ³
AGW (OEL TWA) [2]	20 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	442 mg/m ³
CK (OEL STEL)	884 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	442 mg/m ³
OEL TWA [2]	100 ppm
OEL STEL	884 mg/m ³
OEL STEL [ppm]	200 ppm
Italy - Occupational Exposure Limits	
OEL TWA	442 mg/m ³
OEL TWA [ppm]	100 ppm
OEL STEL	884 mg/m ³
OEL STEL [ppm]	200 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	442 mg/m ³
OEL TWA [ppm]	100 ppm
OEL STEL	884 mg/m ³
OEL STEL [ppm]	200 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	215 mg/m ³
TGG-15min (OEL STEL)	430 mg/m ³

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Ethylbenzene (100-41-4)	
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	200 mg/m ³
NDSP (OEL C)	400 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA	442 mg/m ³
OEL TWA [ppm]	100 ppm
OEL STEL	884 mg/m ³
OEL STEL [ppm]	200 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	441 mg/m ³
VLA-ED (OEL TWA) [2]	100 ppm
VLA-EC (OEL STEL)	884 mg/m ³
VLA-EC (OEL STEL) [ppm]	200 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	220 mg/m ³
NGV (OEL TWA) [ppm]	50 ppm
KTV (OEL STEL)	884 mg/m ³
KTV (OEL STEL) [ppm]	200 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	441 mg/m ³
WEL TWA (OEL TWA) [2]	100 ppm
WEL STEL (OEL STEL)	552 mg/m ³
WEL STEL (OEL STEL) [ppm]	125 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	435 mg/m ³
MAK (OEL TWA) [2]	100 ppm
KZGW (OEL STEL)	435 mg/m ³
KZGW (OEL STEL) [ppm]	100 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	435 mg/m ³
ACGIH OEL TWA [ppm]	100 ppm
Toluene (108-88-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Toluene
IOEL TWA	192 mg/m ³
IOEL TWA [ppm]	50 ppm
IOEL STEL	384 mg/m ³
IOEL STEL [ppm]	100 ppm
Remark	Skin

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Toluene (108-88-3)	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	190 mg/m ³
MAK (OEL TWA) [ppm]	50 ppm
MAK (OEL STEL)	380
MAK (OEL STEL) [ppm]	100 ppm
Belgium - Occupational Exposure Limits	
Local name	Toluène # Tolueen
OEL TWA	77 mg/m ³
OEL TWA [ppm]	20 ppm
OEL STEL	384 mg/m ³
OEL STEL [ppm]	100 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 21/01/2020
Denmark - Occupational Exposure Limits	
OEL TWA [1]	94 mg/m ³
OEL TWA [2]	25 ppm
OEL STEL	188 mg/m ³
OEL STEL [ppm]	50 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	81 mg/m ³
HTP (OEL TWA) [2]	25 ppm
HTP (OEL STEL)	380 mg/m ³
HTP (OEL STEL) [ppm]	100 ppm
France - Occupational Exposure Limits	
Local name	Toluène
VME (OEL TWA)	76,8 mg/m ³
VME (OEL TWA) [ppm]	20 ppm
VLE (OEL C/STEL)	384 mg/m ³
VLE (OEL C/STEL) [ppm]	100 ppm
Remark	Valeurs réglementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	190 mg/m ³
AGW (OEL TWA) [2]	50 ppm

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Toluene (108-88-3)	
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	190 mg/m ³
CK (OEL STEL)	380 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	192 mg/m ³
OEL TWA [2]	50 ppm
OEL STEL	384 mg/m ³
OEL STEL [ppm]	100 ppm
Italy - Occupational Exposure Limits	
OEL TWA	192 mg/m ³
OEL TWA [ppm]	50 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	50 mg/m ³
OEL TWA [ppm]	14 ppm
OEL STEL	150 mg/m ³
OEL STEL [ppm]	40 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	150 mg/m ³
TGG-15min (OEL STEL)	384 mg/m ³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	100 mg/m ³
NDSch (OEL STEL)	200 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA	192 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	384 mg/m ³
OEL STEL [ppm]	100 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	192 mg/m ³
VLA-ED (OEL TWA) [2]	50 ppm
VLA-EC (OEL STEL)	384 mg/m ³
VLA-EC (OEL STEL) [ppm]	100 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	192 mg/m ³
NGV (OEL TWA) [ppm]	50 ppm
KTV (OEL STEL)	384 mg/m ³
KTV (OEL STEL) [ppm]	100 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	191 mg/m ³

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Toluene (108-88-3)	
WEL TWA (OEL TWA) [2]	50 ppm
WEL STEL (OEL STEL)	384 mg/m ³
WEL STEL (OEL STEL) [ppm]	100 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	190 mg/m ³
MAK (OEL TWA) [2]	50 ppm
KZGW (OEL STEL)	760 mg/m ³
KZGW (OEL STEL) [ppm]	200 ppm
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	
France - Occupational Exposure Limits	
VME (OEL TWA)	1600 mg/m ³
VME (OEL TWA) [ppm]	395 ppm
VLE (OEL C/STEL)	903 mg/m ³
butane (<0.1% (203-450-8)) (106-97-8)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	1600 mg/m ³
MAK (OEL TWA) [ppm]	800 ppm
MAK (OEL STEL)	3800 mg/m ³
MAK (OEL STEL) [ppm]	1600 ppm
Belgium - Occupational Exposure Limits	
OEL STEL	2370 mg/m ³
OEL STEL [ppm]	980 ppm
Denmark - Occupational Exposure Limits	
OEL TWA [1]	1200 mg/m ³
OEL TWA [2]	500 ppm
OEL STEL	2400 mg/m ³
OEL STEL [ppm]	1000 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	1900 mg/m ³
HTP (OEL TWA) [2]	800 ppm
HTP (OEL STEL)	2400 mg/m ³
HTP (OEL STEL) [ppm]	1000 ppm
France - Occupational Exposure Limits	
Local name	n-Butane
VME (OEL TWA)	1900 mg/m ³
VME (OEL TWA) [ppm]	800 ppm
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)

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butane (<0.1% (203-450-8)) (106-97-8)	
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	2400 mg/m ³
AGW (OEL TWA) [2]	1000 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	2350 mg/m ³
CK (OEL STEL)	9400 mg/m ³
Ireland - Occupational Exposure Limits	
OEL STEL [ppm]	1000 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	300 mg/m ³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	1900 mg/m ³
NDSch (OEL STEL)	3000 mg/m ³
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	1935 mg/m ³
VLA-ED (OEL TWA) [2]	800 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	1450 mg/m ³
WEL TWA (OEL TWA) [2]	600 ppm
WEL STEL (OEL STEL)	1810 mg/m ³
WEL STEL (OEL STEL) [ppm]	750 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	1900 mg/m ³
MAK (OEL TWA) [2]	800 ppm
KZGW (OEL STEL)	7600 mg/m ³
KZGW (OEL STEL) [ppm]	3200 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1900 mg/m ³
ACGIH OEL TWA [ppm]	800 ppm
propane (74-98-6)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	1800 mg/m ³
MAK (OEL TWA) [ppm]	1000 ppm
MAK (OEL STEL)	3600 mg/m ³
MAK (OEL STEL) [ppm]	2000 ppm
Belgium - Occupational Exposure Limits	
OEL TWA [ppm]	1000 ppm
Denmark - Occupational Exposure Limits	
OEL TWA [1]	1800 mg/m ³

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propane (74-98-6)	
OEL TWA [2]	1000 ppm
OEL STEL	7200 mg/m ³
OEL STEL [ppm]	4000 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	1500 mg/m ³
HTP (OEL TWA) [2]	800 ppm
HTP (OEL STEL)	2000 mg/m ³
HTP (OEL STEL) [ppm]	1100 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	1800 mg/m ³
AGW (OEL TWA) [2]	1000 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	1800 mg/m ³
OEL TWA [ppm]	1000 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	1800 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA	1400 mg/m ³
OEL TWA [ppm]	778 ppm
OEL STEL	1800 mg/m ³
OEL STEL [ppm]	1000 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [2]	1000 ppm
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA) [1]	900 mg/m ³
Grenseverdi (OEL TWA) [2]	500 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	1800 mg/m ³
MAK (OEL TWA) [2]	1000 ppm
KZGW (OEL STEL)	7200 mg/m ³
KZGW (OEL STEL) [ppm]	4000 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1800 mg/m ³
ACGIH OEL TWA [ppm]	1000 ppm
(2-methoxymethylethoxy)propanol (34590-94-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	(2-Methoxymethylethoxy)-propanol
IOEL TWA	308
IOEL TWA [ppm]	50 ppm

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(2-methoxymethylethoxy)propanol (34590-94-8)	
Remark	Skin
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	307 mg/m ³
MAK (OEL TWA) [ppm]	50 ppm
MAK (OEL STEL)	614 mg/m ³
MAK (OEL STEL) [ppm]	100 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	308 mg/m ³
OEL TWA [ppm]	50 ppm
Denmark - Occupational Exposure Limits	
OEL TWA [1]	309 mg/m ³
OEL TWA [2]	50 ppm
OEL STEL	618 mg/m ³
OEL STEL [ppm]	100 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	310 mg/m ³
HTP (OEL TWA) [2]	50 ppm
France - Occupational Exposure Limits	
Local name	(2-méthoxyméthyléthoxy)-propanol
VME (OEL TWA)	308 mg/m ³
VME (OEL TWA) [ppm]	50 ppm
Remark	Valeurs réglementaires contraignantes; risque de pénétration percutanée
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	310 mg/m ³
AGW (OEL TWA) [2]	50 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	308 mg/m ³
CK (OEL STEL)	308 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	308 mg/m ³
OEL TWA [2]	50 ppm
Italy - Occupational Exposure Limits	
OEL TWA	308 mg/m ³
OEL TWA [ppm]	50 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	308 mg/m ³
OEL TWA [ppm]	50 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	300 mg/m ³

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(2-methoxymethylethoxy)propanol (34590-94-8)	
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	240 mg/m ³
NDSch (OEL STEL)	280 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA	308 mg/m ³
OEL TWA [ppm]	50 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	308 mg/m ³
VLA-ED (OEL TWA) [2]	50 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	300 mg/m ³
NGV (OEL TWA) [ppm]	50 ppm
KTV (OEL STEL)	450 mg/m ³
KTV (OEL STEL) [ppm]	75 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	308 mg/m ³
WEL TWA (OEL TWA) [2]	50 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	300 mg/m ³
MAK (OEL TWA) [2]	50 ppm
KZGW (OEL STEL)	300 mg/m ³
KZGW (OEL STEL) [ppm]	50 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	600 mg/m ³
ACGIH OEL TWA [ppm]	100 ppm
ACGIH OEL STEL	900 mg/m ³
ACGIH OEL STEL [ppm]	150 ppm
Acetone (67-64-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Acetone
IOEL TWA	1210 mg/m ³
IOEL TWA [ppm]	500 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	1200 mg/m ³
MAK (OEL TWA) [ppm]	500 ppm
MAK (OEL STEL)	4800 mg/m ³
MAK (OEL STEL) [ppm]	2000 ppm

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Acetone (67-64-1)	
Belgium - Occupational Exposure Limits	
Local name	Acétone # Aceton
OEL TWA	1210 mg/m ³
OEL TWA [ppm]	500 ppm
OEL STEL	2420 mg/m ³
OEL STEL [ppm]	1000 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 21/01/2020
Denmark - Occupational Exposure Limits	
OEL TWA [1]	600 mg/m ³
OEL TWA [2]	250 ppm
OEL STEL	1200 mg/m ³
OEL STEL [ppm]	500 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	1200 mg/m ³
HTP (OEL TWA) [2]	500 ppm
HTP (OEL STEL)	1500 mg/m ³
HTP (OEL STEL) [ppm]	630 ppm
France - Occupational Exposure Limits	
Local name	Acétone
VME (OEL TWA)	1210 mg/m ³
VME (OEL TWA) [ppm]	500 ppm
VLE (OEL C/STEL)	2420 mg/m ³
VLE (OEL C/STEL) [ppm]	1000 ppm
Remark	Valeurs réglementaires contraignantes
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	1200 mg/m ³
AGW (OEL TWA) [2]	500 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	1210 mg/m ³
CK (OEL STEL)	2420 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	1210 mg/m ³
OEL TWA [2]	500 ppm
Italy - Occupational Exposure Limits	
OEL TWA	1210 mg/m ³
OEL TWA [ppm]	500 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	1210 mg/m ³

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Acetone (67-64-1)	
OEL TWA [ppm]	500 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	1210 mg/m ³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	600 mg/m ³
NDSP (OEL C)	1800 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA	1210 mg/m ³
OEL TWA [ppm]	500 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	1210 mg/m ³
VLA-ED (OEL TWA) [2]	500 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	600 mg/m ³
NGV (OEL TWA) [ppm]	250 ppm
KTV (OEL STEL)	1200 mg/m ³
KTV (OEL STEL) [ppm]	500 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	1210 mg/m ³
WEL TWA (OEL TWA) [2]	500 ppm
WEL STEL (OEL STEL)	3620 mg/m ³
WEL STEL (OEL STEL) [ppm]	1500 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	1200 mg/m ³
MAK (OEL TWA) [2]	500 ppm
KZGW (OEL STEL)	2400 mg/m ³
KZGW (OEL STEL) [ppm]	1000 ppm

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

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8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses. EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Skin and body protection	
Type	Standard
Type 4, Type 3	EN 14605

Hand protection:

Gloves. EN 374

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Polyvinylalcohol (PVA)				EN ISO 374-1, EN 374-2

8.2.2.3. Respiratory protection

Respiratory protection:

Good ventilation of the workplace required. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment

Respiratory protection			
Device	Filter type	Condition	Standard
Half-mask	(FFP1)		EN 149
	Filter A1/B1, Filter A3/B3		EN 14387
	Type P1		EN 143

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Aerosol.
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available

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Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Vapour pressure at 50 °C	: < 1,1 bar
Relative vapour density at 20 °C	: No data available
Relative density	: < 1
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: < 7 mm ² /s (40°C)
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

No additional information available

10.2. Chemical stability

Stable under normal conditions. Contains gas under pressure; may explode if heated.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Heat. Open flame. Sparks. Water, humidity. Freezing.

10.5. Incompatible materials

Water. Strong acids. Strong oxidizers.

10.6. Hazardous decomposition products

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

xylene (mixture) (1330-20-7)	
LD50 oral rat	4300 mg/kg
LD50 dermal	1100 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	1,5 mg/l/4h
LC50 Inhalation - Rat (Vapours)	11 mg/l/4h

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Ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat (Vapours)	17,2 mg/l/4h
Toluene (108-88-3)	
LD50 oral rat	5580 mg/kg
LD50 dermal rabbit	5000 mg/kg
LC50 Inhalation - Rat (Vapours)	28,1 mg/l/4h
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	
LD50 oral rat	≥ 5000 mg/kg
LD50 dermal rabbit	≥ 5000 mg/kg
LD50 dermal	> 2920 mg/kg
LC50 Inhalation - Rat	> 23300 mg/m ³ (OCDE 403)
LC50 Inhalation - Rat (Dust/Mist)	≥ 50 mg/l/4h
butane (<0.1% (203-450-8)) (106-97-8)	
LC50 Inhalation - Rat	658 mg/l/4h
LC50 Inhalation - Rat (Vapours)	658 mg/l/4h
propane (74-98-6)	
LD50 oral rat	≥ 5000 mg/kg
LD50 dermal rabbit	≥ 5000 mg/kg
LC50 Inhalation - Rat	≥ 50 mg/l/4h
(2-methoxymethylethoxy)propanol (34590-94-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	9510 mg/kg
LC50 Inhalation - Rat	3,35 mg/l
Acetone (67-64-1)	
LD50 oral rat	5800 mg/kg (OECD 401)
LD50 dermal rat	> 15800 mg/kg
LC50 Inhalation - Rat	76 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
xylene (mixture) (1330-20-7)	
STOT-single exposure	May cause respiratory irritation.
Toluene (108-88-3)	
STOT-single exposure	May cause drowsiness or dizziness.

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Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	
STOT-single exposure	May cause drowsiness or dizziness.
Acetone (67-64-1)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
xylene (mixture) (1330-20-7)	
NOAEC (inhalation, rat, vapour, 90 days)	4,35 mg/l
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Ethylbenzene (100-41-4)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Toluene (108-88-3)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.
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Vaporizer	Aerosol
Viscosity, kinematic	< 7 mm ² /s (40°C)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Harmful 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)	: Harmful to aquatic life with long lasting effects.

xylene (mixture) (1330-20-7)	
LC50 - Fish [1]	2 – 11 mg/l roccus saxatilis
LC50 - Fish [2]	13,5 mg/l lepomis macrochirus
LC50 - Other aquatic organisms [1]	21 mg/l phimepales promelas
EC50 - Crustacea [1]	1 – 5 mg/l
EC50 72h - Algae [1]	3 – 5 mg/l selenastrum sp.
ErC50 algae	4,36 mg/l Pseudokirchneriella subcapitata
NOEC chronic fish	> 1,3 mg/l (Onchorhynchus mykiss (truite arc-en-ciel))
Ethylbenzene (100-41-4)	
LC50 - Fish [1]	4,2 mg/l Onchorhynchus mykiss (truite arc-en-ciel)
EC50 - Crustacea [1]	1,8 – 2,4 mg/l daphnia magna
EC50 72h - Algae [1]	5,4 mg/l Pseudokirchneriella subcapitata
NOEC chronic crustacea	0,96 mg/l (Ceriodaphnia dubia)
Toluene (108-88-3)	
LC50 - Fish [1]	5,5 mg/l Onchorhynchus mykiss (truite arc-en-ciel)
EC50 - Crustacea [1]	3,78 mg/l (Ceriodaphnia dubia)

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Toluene (108-88-3)	
EC50 72h - Algae [1]	134 mg/l (Chlorella vulgaris)
LOEC (chronic)	2,77 mg/l 40 days onchorhynchus mykiss
NOEC chronic fish	1,39 mg/l 40 days onchorhynchus mykiss
NOEC chronic crustacea	0,74 mg/l (Ceriodaphnia dubia)
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	
LC50 - Fish [1]	> 13,4
EC50 - Crustacea [1]	3 mg/l 48 hours
EC50 72h - Algae [1]	10 – 30 mg/l
butane (<0.1% (203-450-8)) (106-97-8)	
LC50 - Fish [1]	680 mg/l
(2-methoxymethylethoxy)propanol (34590-94-8)	
LC50 - Fish [1]	> 10000 mg/l
Acetone (67-64-1)	
LC50 - Fish [1]	5540 mg/l (Oncorhynchus mykiss)
LC50 - Fish [2]	11000 mg/l (Alburnus alburnum)
LC50 - Other aquatic organisms [1]	> 100 mg/l
EC50 - Crustacea [1]	8800 mg/l (Daphnia pulex)
EC50 - Other aquatic organisms [1]	2100 mg/l (24h, Artemisia salina)
NOEC (acute)	430 mg/l (96h, Prorocentrum minimum)
NOEC (chronic)	530 mg/l (8h, algae, Microcystis aeruginosa)
12.2. Persistence and degradability	
xylene (mixture) (1330-20-7)	
Persistence and degradability	Readily biodegradable.
Biodegradation	87,8 % (28 jours - OECD 301F)
Ethylbenzene (100-41-4)	
Persistence and degradability	Readily biodegradable.
Biodegradation	70 – 80 % (28 jours - OECD 301E) 100% (6 jours - OECD 301E)
Toluene (108-88-3)	
Persistence and degradability	Readily biodegradable.
Biodegradation	80 % (20 jours)
butane (<0.1% (203-450-8)) (106-97-8)	
Persistence and degradability	Readily biodegradable.
Acetone (67-64-1)	
Persistence and degradability	Readily biodegradable.
ThOD	2,21 g O ₂ /g substance
BOD (% of ThOD)	84 % ThOD (BOD5, APHA 219)
Biodegradation	91 % (28 days, OCDE 301B)

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12.3. Bioaccumulative potential

xylene (mixture) (1330-20-7)

BCF - Fish [1]	5,4 – 25,9 Oncorhynchus mykiss (truite)
Partition coefficient n-octanol/water (Log Pow)	2,77 – 3,2
Bioaccumulative potential	not bioaccumulable.

Ethylbenzene (100-41-4)

BCF - Fish [1]	< 100
Partition coefficient n-octanol/water (Log Pow)	3,5

Toluene (108-88-3)

BCF - Fish [1]	90 Leuciscus idus (ide mélanote)
Bioconcentration factor (BCF REACH)	90
Partition coefficient n-octanol/water (Log Kow)	2,73 (20 °C)
Bioaccumulative potential	not bioaccumulable.

butane (<0.1% (203-450-8)) (106-97-8)

Bioaccumulative potential	not bioaccumulable.
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Acetone (67-64-1)

Partition coefficient n-octanol/water (Log Pow)	-0,24
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12.4. Mobility in soil

xylene (mixture) (1330-20-7)

Ecology - soil	insoluble in water. Floats on water.
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Ethylbenzene (100-41-4)

Ecology - soil	insoluble in water.
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Toluene (108-88-3)

Surface tension	0,0242 mN/m 20°C
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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Sewage disposal recommendations	: Do not discharge into drains or the environment.
Product/Packaging disposal recommendations	: Collect all waste in suitable and labelled containers and dispose according to local legislation. Dispose used or damaged aerosol cans at permitted disposal sites.
Additional information	: Empty the packaging completely prior to disposal. Do not re-use empty containers.
Ecology - waste materials	: Do not discharge the product into the environment.
European List of Waste (LoW) code	: 16 05 04* - gases in pressure containers (including halons) containing dangerous substances





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SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name			
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS
Transport document description			
UN 1950 AEROSOLS, 2.1, (D)	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1	UN 1950 AEROSOLS, 2.1
14.3. Transport hazard class(es)			
2.1	2.1	2.1	2.1
			
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available			

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: 5F
Special provisions (ADR)	: 190, 327, 344, 625
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P207
Special packing provisions (ADR)	: PP87, RR6, L2
Mixed packing provisions (ADR)	: MP9
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V14
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV9, CV12
Special provisions for carriage - Operation (ADR)	: S2
Tunnel restriction code (ADR)	: D

Transport by sea

Special provisions (IMDG)	: 63, 190, 277, 327, 344, 381, 959
Packing instructions (IMDG)	: P207, LP200
Special packing provisions (IMDG)	: PP87, L2
EmS-No. (Fire)	: F-D
EmS-No. (Spillage)	: S-U
Stowage category (IMDG)	: None
Stowage and handling (IMDG)	: SW1, SW22
Segregation (IMDG)	: SG69

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Air transport

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provisions (IATA)	: A145, A167, A802
ERG code (IATA)	: 10L

Rail transport

Classification code (RID)	: 5F
Special provisions (RID)	: 190, 327, 344, 625
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P207, LP200
Special packing provisions (RID)	: PP87, RR6, L2
Mixed packing provisions (RID)	: MP9
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W14
Special provisions for carriage - Loading, unloading and handling (RID)	: CW9, CW12
Colis express (express parcels) (RID)	: CE2
Hazard identification number (RID)	: 23

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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.

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) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains 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.

ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported to the relevant national contact point within 24 hours.

Name	CAS-No.	Combined Nomenclature code (CN)	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Acetone	67-64-1	2914 11 00	ex 3824 99 92

Please see https://ec.europa.eu/home-affairs/system/files/2021-11/list_of_competent_authorities_and_national_contact_points_en.pdf

Detergent Regulation (648/2004/EC): Labelling of contents:

Component	%
aromatic hydrocarbons, aliphatic hydrocarbons	≥30%

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Directive 2012/18/EU (SEVESO III)

Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
P3a FLAMMABLE AEROSOLS 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids Category 1	150	500

Contains substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

Name	CN designation	CAS-No.	CN code	Category	Threshold	Annex
Toluene		108-88-3	2902 30 00	Catégorie 3		Annexe I
Acetone		67-64-1	2914 11 00	Catégorie 3		Annexe I

15.1.2. National regulations

France	
Occupational diseases	
Code	Description
RG 4 BIS	Gastrointestinal disorders caused by benzene, toluene, xylenes and all products containing them
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 2, Significantly 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

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 : xylene (mixture), Toluene are listed

Denmark

Class for fire hazard : Add boilingpoint
Store unit : Add boilingpoint
Classification remarks : Add boilingpoint; 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 2 - Liquefied or pressurized gases

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
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Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
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 Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1A	Flammable gases, Category 1A
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Press. Gas	Gases under pressure
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
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.