



CARBURETTOR CLEANER BARDAHL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Reference number: 1110B

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

1.1. Product identifier

Product form : Mixture
Product name : CARBURETTOR CLEANER BARDAHL
Product code : 1110B # 730110BR4
Type of product : Detergent

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
Function or use category : Fuel additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor

SADAPS BARDAHL 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

SADAPS BARDAHL Additives & Lubricants
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msds@bardahlfrance.com - www.bardahl.fr

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 Msida	+356 2545 6504	
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	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3

H226

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Acute toxicity (dermal), Category 4	H312
Acute toxicity (inhalation:vapour) Category 4	H332
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
Full text of H statements : see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Contains

: xylene (mixture); Ethylbenzene

Hazard statements (CLP)

: H226 - Flammable liquid and vapour.
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.
H373 - May cause damage to organs (central nervous system, kidneys, liver) through prolonged or repeated exposure.

Precautionary statements (CLP)

: P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 - Do not breathe vapours.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, eye protection/face protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor.
P331 - Do NOT induce vomiting.
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, a 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.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to a hazardous or special waste collection point.

Child-resistant fastening

: Applicable

Tactile warning

: Applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
xylene (mixture)	(CAS-No.) 1330-20-7 (EC-No.) 215-535-7 (EC Index-No.) 601-022-00-9 (REACH-no) 01-2119488216-32	70-90	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
Ethylbenzene	(CAS-No.) 100-41-4 (EC-No.) 202-849-4 (EC Index-No.) 601-023-00-4 (REACH-no) 01-2119489370-35	10-20	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Toluene	(CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index-No.) 601-021-00-3 (REACH-no) 01-2119471310-51	< 1	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
naphthalene substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (AT, BE, CH, DE, DK, ES, FI, FR, GB, HU, IE, IT, LV, NL, PL, RO, SE)	(CAS-No.) 91-20-3 (EC-No.) 202-049-5 (EC Index-No.) 601-052-00-2	< 0.1	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-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	: Harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: Harmful in contact with skin. Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.
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.
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

Additional hazards when processed : Flammable liquid and vapour.
Precautions for safe handling : Do not eat, drink or smoke when using this product.
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 : Store in a closed container. Keep out of frost.
Heat and ignition sources : Keep away from naked flames/heat. Keep away from ignition sources.
Storage area : Store in a dry place. Store in a well-ventilated place.
Special rules on packaging : Store in original container.

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

naphthalene (91-20-3)	
EU - Occupational Exposure Limits	
Local name	Naphthalene
IOELV TWA (mg/m ³)	50 mg/m ³
IOELV TWA (ppm)	10 ppm
Notes	(Year of adoption 2010)
Regulatory reference	COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations
Austria - Occupational Exposure Limits	
MAK Daily average value (mg/m ³)	50 mg/m ³
MAK Daily average value (ppm)	10 ppm
Belgium - Occupational Exposure Limits	
Local name	Naphtalène # Naftaleen
Limit value [mg/m ³]	53 mg/m ³
Limit value [ppm]	10 ppm
Short time value [mg/m ³]	80 mg/m ³
Short time value [ppm]	15 ppm
Remark (BE)	D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.
Regulatory reference	Koninklijk besluit/Arrêté royal 21/01/2020
Denmark - Occupational Exposure Limits	
Grænseværdi (8 timer) (mg/m ³)	50 mg/m ³
Grænseværdi (8 timer) (ppm)	10 ppm
Grænseværdi (STEL) (mg/m ³)	100 mg/m ³
Grænseværdi (STEL) (ppm)	20 ppm
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m ³)	5 mg/m ³
HTP-arvo (8h) (ppm)	1 ppm
HTP-arvo (15 min)	10 mg/m ³
HTP-arvo (15 min) (ppm)	2 ppm
France - Occupational Exposure Limits	
Local name	Naphtalène
VME [mg/m ³]	50 mg/m ³
VME [ppm]	10 ppm

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naphthalene (91-20-3)	
Note (FR)	Valeurs recommandées/admises; substance classée cancérogène de catégorie 2
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	2 mg/m ³
Occupational exposure limit value (ppm)	0,4 ppm
Hungary - Occupational Exposure Limits	
AK-érték	50 mg/m ³
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	50 mg/m ³
OEL (8 hours ref) (ppm)	10 ppm
Italy - Occupational Exposure Limits	
OEL TWA (mg/m ³)	50 mg/m ³
OEL TWA (ppm)	10 ppm
Latvia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	50 mg/m ³
OEL TWA (ppm)	10 ppm
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m ³)	50 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	80 mg/m ³
Poland - Occupational Exposure Limits	
NDS (mg/m ³)	20 mg/m ³
NDSch (mg/m ³)	50 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA (mg/m ³)	50 mg/m ³
OEL TWA (ppm)	9,5 ppm
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	53 mg/m ³
VLA-ED (ppm)	10 ppm
VLA-EC (mg/m ³)	80 mg/m ³
VLA-EC (ppm)	15 ppm
Sweden - Occupational Exposure Limits	
nivågränsvärde (NVG) (mg/m ³)	50 mg/m ³
nivågränsvärde (NVG) (ppm)	10 ppm
kortidsvärde (KTV) (mg/m ³)	80 mg/m ³
kortidsvärde (KTV) (ppm)	15 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	53 mg/m ³
WEL TWA (ppm)	10 ppm
WEL STEL (mg/m ³)	80 mg/m ³
WEL STEL [ppm]	15 ppm

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naphthalene (91-20-3)	
Switzerland - Occupational Exposure Limits	
MAK (mg/m ³)	50 mg/m ³
MAK (ppm)	10 ppm
Turkey - Occupational Exposure Limits	
OEL TWA (mg/m ³)	50 mg/m ³
OEL TWA (ppm)	10 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m ³)	50 mg/m ³
ACGIH TWA (ppm)	10 ppm
xylene (mixture) (1330-20-7)	
EU - Occupational Exposure Limits	
Local name	Xylene, mixed isomers, pure
IOELV TWA (mg/m ³)	221 mg/m ³
IOELV TWA (ppm)	50 ppm
IOELV STEL (mg/m ³)	442 mg/m ³
IOELV STEL (ppm)	100 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Austria - Occupational Exposure Limits	
MAK Daily average value (mg/m ³)	221 mg/m ³
MAK Daily average value (ppm)	50 ppm
MAK Short time value [mg/m ³]	442 mg/m ³
MAK Short time value [ppm]	100 ppm
Belgium - Occupational Exposure Limits	
Local name	Xylène, isomères mixtes, purs # Xyleen, mengsel van isomeren, zuiver
Limit value [mg/m ³]	221 mg/m ³
Limit value [ppm]	50 ppm
Short time value [mg/m ³]	442 mg/m ³
Short time value [ppm]	100 ppm
Remark (BE)	D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.
Regulatory reference	Koninklijk besluit/Arrêté royal 21/01/2020
Denmark - Occupational Exposure Limits	
Grænseværdi (8 timer) (mg/m ³)	109 mg/m ³
Grænseværdi (8 timer) (ppm)	25 ppm
Grænseværdi (STEL) (mg/m ³)	218 mg/m ³
Grænseværdi (STEL) (ppm)	50 ppm

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xylene (mixture) (1330-20-7)	
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m ³)	220 mg/m ³
HTP-arvo (8h) (ppm)	50 ppm
HTP-arvo (15 min)	440 mg/m ³
HTP-arvo (15 min) (ppm)	100 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	440 mg/m ³
Occupational exposure limit value (ppm)	100 ppm
Hungary - Occupational Exposure Limits	
AK-érték	221 mg/m ³
CK-érték	442 mg/m ³
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	221 mg/m ³
OEL (8 hours ref) (ppm)	50 ppm
OEL (15 min ref) (mg/m ³)	442 mg/m ³
OEL (15 min ref) (ppm)	100 ppm
Italy - Occupational Exposure Limits	
OEL TWA (mg/m ³)	221 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	442 mg/m ³
OEL STEL (ppm)	100 ppm
Latvia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	221 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	442 mg/m ³
OEL STEL (ppm)	100 ppm
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m ³)	210 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	442 mg/m ³
Poland - Occupational Exposure Limits	
NDS (mg/m ³)	100 mg/m ³
NDSCh (mg/m ³)	200 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA (mg/m ³)	221 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	442 mg/m ³
OEL STEL (ppm)	100 ppm
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	221 mg/m ³
VLA-ED (ppm)	50 ppm

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xylene (mixture) (1330-20-7)	
VLA-EC (mg/m ³)	442 mg/m ³
VLA-EC (ppm)	100 ppm
Sweden - Occupational Exposure Limits	
nivågränsvärde (NVG) (mg/m ³)	221 mg/m ³
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m ³)	442 mg/m ³
kortidsvärde (KTV) (ppm)	100 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	220 mg/m ³
WEL TWA (ppm)	50 ppm
WEL STEL (mg/m ³)	441 mg/m ³
WEL STEL [ppm]	100 ppm
Switzerland - Occupational Exposure Limits	
MAK (mg/m ³)	435 mg/m ³
MAK (ppm)	100 ppm
KZGW (mg/m ³)	870 mg/m ³
KZGW (ppm)	200 ppm
Turkey - Occupational Exposure Limits	
OEL TWA (mg/m ³)	221 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	442 mg/m ³
OEL STEL (ppm)	100 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m ³)	435 mg/m ³
ACGIH TWA (ppm)	100 ppm

Ethylbenzene (100-41-4)	
EU - Occupational Exposure Limits	
Local name	Ethylbenzene
IOELV TWA (mg/m ³)	442 mg/m ³
IOELV TWA (ppm)	100 ppm
IOELV STEL (mg/m ³)	884 mg/m ³
IOELV STEL (ppm)	200 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Austria - Occupational Exposure Limits	
MAK Daily average value (mg/m ³)	440 mg/m ³
MAK Daily average value (ppm)	100 ppm
MAK Short time value [mg/m ³]	880 mg/m ³
MAK Short time value [ppm]	200 ppm

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Ethylbenzene (100-41-4)	
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	87 mg/m ³
Limit value [ppm]	20 ppm
Short time value [mg/m ³]	551 mg/m ³
Short time value [ppm]	125 ppm
Denmark - Occupational Exposure Limits	
Grænseværdi (8 timer) (mg/m ³)	217 mg/m ³
Grænseværdi (8 timer) (ppm)	50 ppm
Grænseværdi (STEL) (mg/m ³)	434 mg/m ³
Grænseværdi (STEL) (ppm)	100 ppm
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m ³)	220 mg/m ³
HTP-arvo (8h) (ppm)	50 ppm
HTP-arvo (15 min)	880 mg/m ³
HTP-arvo (15 min) (ppm)	200 ppm
France - Occupational Exposure Limits	
Local name	Ethylbenzène
VME [mg/m ³]	88,4 mg/m ³
VME [ppm]	20 ppm
VLE [mg/m ³]	442 mg/m ³
VLE [ppm]	100 ppm
Note (FR)	Valeurs réglementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	88 mg/m ³
Occupational exposure limit value (ppm)	20 ppm
Hungary - Occupational Exposure Limits	
AK-érték	442 mg/m ³
CK-érték	884 mg/m ³
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	442 mg/m ³
OEL (8 hours ref) (ppm)	100 ppm
OEL (15 min ref) (mg/m ³)	884 mg/m ³
OEL (15 min ref) (ppm)	200 ppm
Italy - Occupational Exposure Limits	
OEL TWA (mg/m ³)	442 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m ³)	884 mg/m ³
OEL STEL (ppm)	200 ppm

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Ethylbenzene (100-41-4)	
Latvia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	442 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m ³)	884 mg/m ³
OEL STEL (ppm)	200 ppm
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m ³)	215 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	430 mg/m ³
Poland - Occupational Exposure Limits	
NDS (mg/m ³)	200 mg/m ³
NDSP (mg/m ³)	400 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA (mg/m ³)	442 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m ³)	884 mg/m ³
OEL STEL (ppm)	200 ppm
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	441 mg/m ³
VLA-ED (ppm)	100 ppm
VLA-EC (mg/m ³)	884 mg/m ³
VLA-EC (ppm)	200 ppm
Sweden - Occupational Exposure Limits	
nivågränsvärde (NVG) (mg/m ³)	220 mg/m ³
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m ³)	884 mg/m ³
kortidsvärde (KTV) (ppm)	200 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	441 mg/m ³
WEL TWA (ppm)	100 ppm
WEL STEL (mg/m ³)	552 mg/m ³
WEL STEL [ppm]	125 ppm
Switzerland - Occupational Exposure Limits	
MAK (mg/m ³)	435 mg/m ³
MAK (ppm)	100 ppm
KZGW (mg/m ³)	435 mg/m ³
KZGW (ppm)	100 ppm
Turkey - Occupational Exposure Limits	
OEL TWA (mg/m ³)	442 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m ³)	884 mg/m ³

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Ethylbenzene (100-41-4)	
OEL STEL (ppm)	200 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m ³)	435 mg/m ³
ACGIH TWA (ppm)	100 ppm
Toluene (108-88-3)	
EU - Occupational Exposure Limits	
Local name	Toluene
IOELV TWA (mg/m ³)	192 mg/m ³
IOELV TWA (ppm)	50 ppm
IOELV STEL (mg/m ³)	384 mg/m ³
IOELV STEL (ppm)	100 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
Austria - Occupational Exposure Limits	
MAK Daily average value (mg/m ³)	190 mg/m ³
MAK Daily average value (ppm)	50 ppm
MAK Short time value [mg/m ³]	380
MAK Short time value [ppm]	100 ppm
Belgium - Occupational Exposure Limits	
Local name	Toluène # Tolueen
Limit value [mg/m ³]	77 mg/m ³
Limit value [ppm]	20 ppm
Short time value [mg/m ³]	384 mg/m ³
Short time value [ppm]	100 ppm
Remark (BE)	D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.
Regulatory reference	Koninklijk besluit/Arrêté royal 21/01/2020
Denmark - Occupational Exposure Limits	
Grænseværdi (8 timer) (mg/m ³)	94 mg/m ³
Grænseværdi (8 timer) (ppm)	25 ppm
Grænseværdi (STEL) (mg/m ³)	188 mg/m ³
Grænseværdi (STEL) (ppm)	50 ppm
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m ³)	81 mg/m ³
HTP-arvo (8h) (ppm)	25 ppm
HTP-arvo (15 min)	380 mg/m ³
HTP-arvo (15 min) (ppm)	100 ppm

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Toluene (108-88-3)	
France - Occupational Exposure Limits	
Local name	Toluène
VME [mg/m ³]	76,8 mg/m ³
VME [ppm]	20 ppm
VLE [mg/m ³]	384 mg/m ³
VLE [ppm]	100 ppm
Note (FR)	Valeurs règlementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	190 mg/m ³
Occupational exposure limit value (ppm)	50 ppm
Hungary - Occupational Exposure Limits	
AK-érték	190 mg/m ³
CK-érték	380 mg/m ³
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	192 mg/m ³
OEL (8 hours ref) (ppm)	50 ppm
OEL (15 min ref) (mg/m ³)	384 mg/m ³
OEL (15 min ref) (ppm)	100 ppm
Italy - Occupational Exposure Limits	
OEL TWA (mg/m ³)	192 mg/m ³
OEL TWA (ppm)	50 ppm
Latvia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	50 mg/m ³
OEL TWA (ppm)	14 ppm
OEL STEL (mg/m ³)	150 mg/m ³
OEL STEL (ppm)	40 ppm
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m ³)	150 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	384 mg/m ³
Poland - Occupational Exposure Limits	
NDS (mg/m ³)	100 mg/m ³
NDSCh (mg/m ³)	200 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA (mg/m ³)	192 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	384 mg/m ³
OEL STEL (ppm)	100 ppm
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	192 mg/m ³

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Toluene (108-88-3)	
VLA-ED (ppm)	50 ppm
VLA-EC (mg/m ³)	384 mg/m ³
VLA-EC (ppm)	100 ppm
Sweden - Occupational Exposure Limits	
nivågränsvärde (NVG) (mg/m ³)	192 mg/m ³
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m ³)	384 mg/m ³
kortidsvärde (KTV) (ppm)	100 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	191 mg/m ³
WEL TWA (ppm)	50 ppm
WEL STEL (mg/m ³)	384 mg/m ³
WEL STEL [ppm]	100 ppm
Switzerland - Occupational Exposure Limits	
MAK (mg/m ³)	190 mg/m ³
MAK (ppm)	50 ppm
KZGW (mg/m ³)	760 mg/m ³
KZGW (ppm)	200 ppm
Turkey - Occupational Exposure Limits	
OEL TWA (mg/m ³)	192 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	384 mg/m ³
OEL STEL (ppm)	100 ppm

8.2. Exposure controls

Hand protection:

Gloves. EN 374

Eye protection:

Safety glasses. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Good ventilation of the workplace required

Personal protective equipment symbol(s):



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Colourless.
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 27 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0,861 – 0,871 g/cm ³ (20°C)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: < 20,5 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

Stable under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Flammable liquid and vapour.

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

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

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Acute toxicity (dermal) : Harmful in contact with skin.
Acute toxicity (inhalation) : Harmful if inhaled.

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ATE CLP (dermal)	1338,58 mg/kg bodyweight
ATE CLP (vapours)	11,166 mg/l/4h

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

LD50 oral rat	≥ 5000 mg/kg
LD50 dermal rabbit	≥ 5000 mg/kg
LC50 Inhalation - Rat	≥ 50 mg/l/4h

naphthalene (91-20-3)

LD50 oral	490 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LD50 dermal	> 2500 mg/kg
LC50 Inhalation - Rat	> 340 mg/m ³

xylene (mixture) (1330-20-7)

LD50 oral rat	2000 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

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

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.

STOT-repeated exposure : May cause damage to organs (central nervous system, kidneys, liver) through prolonged or repeated exposure.

Aspiration hazard : May be fatal if swallowed and enters airways.

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Viscosity, kinematic	< 20,5 mm ² /s (40°C)
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SECTION 12: Ecological information

12.1. Toxicity

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

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

naphthalene (91-20-3)

LC50 fish 2	≥ 2350 µg/l 48 hours
EC50 Daphnia 1	1,96 mg/l 48 hours

Hydrocarbons, C10, aromatics, >1% naphthalene

LC50 fish 1	2 mg/l 4 days
EC50 other aquatic organisms 1	3 mg/l aquatic invertebrates
EC50 other aquatic organisms 2	1,1 mg/l algae

Phenol, (dimethylamino)methyl-, polyisobutylene derivs.

LC50 fish 1	31 mg/l 4 days
EC50 other aquatic organisms 1	> 100 mg/l aquatic invertebrates
EC50 96h algae (1)	> 450 mg/l

xylene (mixture) (1330-20-7)

LC50 fish 1	2 – 11 mg/l
LC50 fish 2	13,5 mg/l
LC50 other aquatic organisms 1	21 mg/l
EC50 Daphnia 1	1 – 5 mg/l
EC50 72h algae (1)	3 – 5 mg/l

Ethylbenzene (100-41-4)

LC50 fish 1	12,1 mg/l
EC50 Daphnia 1	1,8 – 2,4 mg/l
EC50 72h algae (1)	438 mg/l

Toluene (108-88-3)

LC50 fish 1	5,5 mg/l
EC50 Daphnia 1	3,78 mg/l
EC50 72h algae (1)	10 mg/l
LOEC (chronic)	2,77 mg/l 40 days onchorhynchus mykiss
NOEC chronic fish	1,39 mg/l 40 days onchorhynchus mykiss
NOEC chronic crustacea	10 mg/l

12.2. Persistence and degradability

Hydrocarbons, C10, aromatics, >1% naphthalene

Biodegradation	58 % 28 days
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Phenol, (dimethylamino)methyl-, polyisobutylene derivs.

Biodegradation	20,7 % 28 days
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xylene (mixture) (1330-20-7)

Persistence and degradability	Readily biodegradable.
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Ethylbenzene (100-41-4)

Persistence and degradability	Readily biodegradable.
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Toluene (108-88-3)

Persistence and degradability	Readily biodegradable.
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12.3. Bioaccumulative potential

xylene (mixture) (1330-20-7)

Partition coefficient n-octanol/water (Log Pow)	2,77 – 3,15
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Bioaccumulative potential	not bioaccumulable.
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Ethylbenzene (100-41-4)

Partition coefficient n-octanol/water (Log Pow)	3,5
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Toluene (108-88-3)

Bioconcentration factor (BCF REACH)	90
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Partition coefficient n-octanol/water (Log Pow)	2,65
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Bioaccumulative potential	not bioaccumulable.
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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.

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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.
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.

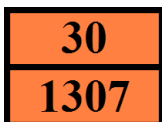
SECTION 14: Transport information

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

ADR	IMDG	IATA	RID
14.1. UN number			
UN 1307	UN 1307	Not applicable	UN 1307
14.2. UN proper shipping name			
XYLENES	XYLENES	Not applicable	XYLENES
Transport document description			
UN 1307 XYLENES, 3, III, (D/E)	UN 1307 XYLENES, 3, III (23°C c.c.)	Not applicable	UN 1307 XYLENES, 3, III
14.3. Transport hazard class(es)			
3	3	Not applicable	3
		Not applicable	
14.4. Packing group			
III	III	Not applicable	III
14.5. Environmental hazards			
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Not applicable	Dangerous for the environment : No
No supplementary information available			

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: F1
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T2
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 30
Orange plates	: 

Tunnel restriction code (ADR) : D/E

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EAC code	: 3YE
Transport by sea	
Special provisions (IMDG)	: 223
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T2
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: A
Flash point (IMDG)	: 23°C to 30°C c.c.
Properties and observations (IMDG)	: Colourless liquids. Flashpoint: 23°C to 30°C c.c. Explosive limits: 1.1% to 7% Immiscible with water.

Air transport

Not applicable

Rail transport

Classification code (RID)	: F1
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T2
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE4
Hazard identification number (RID)	: 30

14.7. 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

Detergent Regulation (648/2004/EC): Labelling of contents:	
Component	%
aromatic hydrocarbons	≥30%
aliphatic hydrocarbons	<5%

Directive 2012/18/EU (SEVESO III)

Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
P5c FLAMMABLE LIQUIDS Flammable liquids, Categories 2 or 3 not covered by P5a and P5b	5000	50000

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15.1.2. National regulations

France

Occupational diseases : RG 4 BIS - Affections gastro-intestinales provoquées par le benzène, le toluène, les xylènes et tous les produits en renfermant
RG 49 - Affections cutanées provoquées par les amines aliphatiques, alicycliques ou les éthanolamines
RG 84 - Affections engendrées par les solvants organiques liquides à usage professionnel

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)

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

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed

giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting : xylene (mixture), Toluene are listed

giftige stoffen – Ontwikkeling

Denmark

Class for fire hazard : Class II-1

Store unit : 5 liter

Classification remarks : R10 <H226;H304;H312;H315;H319;H332;H335;H373>; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
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
Repr. 2	Reproductive toxicity, Category 2

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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
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
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.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
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.

SDS EU (REACH Annex II)

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