



# Fuel Injector Cleaner

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Date of issue: 6/26/2018 Revision date: 5/8/2019 Supersedes: 6/26/2018 Version: 1.1

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

#### 1.1. Product identifier

Product form : Mixture  
Name : Fuel Injector Cleaner  
Product code : 12101  
Article number : 12101

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

##### 1.2.1. Relevant identified uses

Industrial/Professional use spec : 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

BARDAHL NL - OCD NEDERLAND BV  
Maxwellstraat 41  
3316 GP Dordrecht - Nederland  
T 0031 78 651 2322 - F 0031 78 617 4848  
[rjionker@bardahl.nl](mailto:rjionker@bardahl.nl) - [www.bardahl.nl](http://www.bardahl.nl)

#### 1.4. Emergency telephone number

Emergency number : +31 (0) 6 2908 2010  
During office hours: 8.30 t/m 17:00 h

Country	Official advisory body	Address	Emergency number	Comment
	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241	
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)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096 Haifa	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3 H226  
Acute toxicity (dermal), Category 4 H312  
Acute toxicity (inhalation:dust,mist) 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  
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412  
Full text of H statements : see section 16

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### 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) :



GHS02

GHS07

GHS08

Signal word (CLP) :

Danger

Hazardous ingredients :

xylene; 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 (kidneys) through prolonged or repeated exposure (if swallowed).  
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.  
P210 - Keep away from heat, hot surfaces, open flames, Sources of ignition, sparks. No smoking.  
P260 - Do not breathe vapours.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, eye protection.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/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/doctor if you feel unwell.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container to a facility for the collection of hazardous or special waste.  
P264 - Wash hands thoroughly after handling.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
xylene (Note C)	(CAS-No.) 1330-20-7 (EC-No.) 215-535-7 (EC Index-No.) 601-022-00-9 (REACH-no) 01-2119488216-32	40 - 60	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
4-methylpentan-2-ol; methyl isobutyl carbinol	(CAS-No.) 108-11-2 (EC-No.) 203-551-7 (EC Index-No.) 603-008-00-8 (REACH-no) 01-2119473979-13	15 - 30	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335
ethylbenzene	(CAS-No.) 100-41-4 (EC-No.) 202-849-4 (EC Index-No.) 601-023-00-4 (REACH-no) 01-2119489370-35	5 - 15	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304
Phenol, (dimethylamino) methyl-polyisobutylene-derivatives		< 3	Aquatic Chronic 3, H412

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oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)	(CAS-No.) 34140-91-5 (EC-No.) 251-846-4 (REACH-no) 01-2119974119-29	<= 3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Aquatic Chronic 2, H411
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
naphthalene	(CAS-No.) 91-20-3 (EC-No.) 202-049-5 (EC Index-No.) 601-052-00-2	< 0.1	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

### Specific concentration limits:

Name	Product identifier	Specific concentration limits
4-methylpentan-2-ol; methyl isobutyl carbinol	(CAS-No.) 108-11-2 (EC-No.) 203-551-7 (EC Index-No.) 603-008-00-8 (REACH-no) 01-2119473979-13	( 25 =<C < 100) STOT SE 3, H335

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.

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 swallowed, seek medical advice immediately and show this container or label.
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Wash skin thoroughly with mild soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. 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.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Water spray. Foam. Dry powder.
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 will generate poisonous carbon monoxide, carbon dioxide and other toxic gases.

### 5.3. Advice for firefighters

Precautionary measures fire	: Do not enter fire area without proper protective equipment, including respiratory protection.
Firefighting instructions	: Prevent fire fighting water from entering the environment. Exercise caution when fighting any chemical fire. Evacuate area.
Protection during firefighting	: Wear a self contained breathing apparatus.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Keep public away from danger area. Eliminate every possible source of ignition. Evacuate area. Equip cleanup crew with proper protection. Ventilate area.

##### 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

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

#### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

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

See Heading 8. See Heading 13.

### 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. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene measures : Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation.

Storage conditions : Store in dry, cool, well-ventilated area. Keep in original containers.

Incompatible materials : Freezing. heat. Sources of ignition.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

xylene (1330-20-7)		
EU	IOELV TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup> (Xylene, mixed isomers, pure; EU; Timeweighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	50 ppm (Xylene, mixed isomers, pure; EU; Timeweighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup> (Xylene, mixed isomers, pure; EU; Short time value; Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)	100 ppm (Xylene, mixed isomers, pure; EU; Short time value; Indicative occupational exposure limit value)
Austria	MAK (mg/m <sup>3</sup> )	210 mg/m <sup>3</sup> (Long term value)
Austria	MAK (ppm)	50 ppm (Long term value)
Austria	MAK Short time value (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	100 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup> (Xylène, isomères mixtes, purs; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	50 ppm (Xylène, isomères mixtes, purs; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup> (Xylène, isomères mixtes, purs; Belgium; Short time value)
Belgium	Short time value (ppm)	100 ppm (Xylène, isomères mixtes, purs; Belgium; Short time value)

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xylene (1330-20-7)		
France	VME (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup> (Xylènes, isomères mixtes, purs; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	50 ppm (Xylènes, isomères mixtes, purs; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VLE (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup> (Xylènes, isomères mixtes, purs; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VLE (ppm)	100 ppm (Xylènes, isomères mixtes, purs; France; Short time value; VRC: Valeur réglementaire contraignante)
Germany	TRGS 910 Acceptable concentration notes	
Greece	OEL TWA (mg/m <sup>3</sup> )	435
Greece	OEL TWA (ppm)	100 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	650 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	150 ppm
Italy	Local name	Xilene, isomeri misti, puro
Italy	OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	50 ppm
Italy	OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Italy	OEL STEL (ppm)	100 ppm
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	210 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 8H (ppm)	50 ppm
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (ppm)	100 ppm
Spain	Local name	Xilenos, mezcla isómeros
Spain	VLA-ED (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	50 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	100 ppm
Spain	Notes	Vía dérmica: (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento.), VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento.), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país.)
USA - ACGIH	Local name	Xylene
USA - ACGIH	ACGIH TWA (ppm)	100 ppm
USA - ACGIH	ACGIH STEL (ppm)	150 ppm
USA - ACGIH	Remark (ACGIH)	URT & eye irr; CNS impair

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ethylbenzene (100-41-4)		
EU	IOELV TWA (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup> (Ethylbenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	100 ppm (Ethylbenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV STEL (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup> (Ethylbenzene; EU; Short time value; Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)	200 ppm (Ethylbenzene; EU; Short time value; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup> (Ethylbenzène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	100 ppm (Ethylbenzène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m <sup>3</sup> )	551 mg/m <sup>3</sup> (Ethylbenzène; Belgium; Short time value)
Belgium	Short time value (ppm)	125 ppm (Ethylbenzène; Belgium; Short time value)
France	VME (mg/m <sup>3</sup> )	88.4 mg/m <sup>3</sup> (Ethylbenzène; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	20 ppm (Ethylbenzène; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VLE (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup> (Ethylbenzène; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VLE (ppm)	100 ppm (Ethylbenzène; France; Short time value; VRC: Valeur réglementaire contraignante)
Germany	TRGS 910 Acceptable concentration notes	
Greece	OEL TWA (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	100 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	545 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	125 ppm
Italy	Local name	Etilbenzene
Italy	OEL TWA (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	100 ppm
Italy	OEL STEL (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup>
Italy	OEL STEL (ppm)	200 ppm
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	215 mg/m <sup>3</sup> (Ethylbenzeen; Netherlands; Timeweighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	49 ppm (Ethylbenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	430 mg/m <sup>3</sup> (Ethylbenzeen; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (ppm)	97 ppm (Ethylbenzeen; Netherlands; Short time value; Public occupational exposure limit value)
Spain	Local name	Etilbenceno
Spain	VLA-ED (mg/m <sup>3</sup> )	441 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	100 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	200 ppm

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ethylbenzene (100-41-4)		
Spain	Notes	Vía dérmica: (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento.), VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento.) , VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país.)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	441 mg/m <sup>3</sup> Ethylbenzene; United Kingdom; Timeweighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	100 ppm Ethylbenzene; United Kingdom; Timeweighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	552 mg/m <sup>3</sup> Ethylbenzene; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	125 ppm Ethylbenzene; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
USA - ACGIH	Local name	Ethyl benzene
USA - ACGIH	ACGIH TWA (ppm)	20 ppm
USA - ACGIH	Remark (ACGIH)	URT irr; kidney dam (nephropathy)

naphthalene (91-20-3)		
EU	IOELV TWA (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	10 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	79 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	15 ppm
Austria	MAK (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Belgium	Limit value (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Belgium	Short time value (mg/m <sup>3</sup> )	53 mg/m <sup>3</sup>
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> 8h
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	75 mg/m <sup>3</sup> 15 min
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min)	100 mg/m <sup>3</sup>
France	VME (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
France	VME (ppm)	10 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Germany	TRGS 910 Acceptable concentration notes	
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
USA - ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>



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naphthalene (91-20-3)		
USA - ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	15 fibers/cm <sup>3</sup>

toluene (108-88-3)		
EU	IOELV TWA (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup> (Toluene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	50 ppm (Toluene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup> (Toluene; EU; Short time value; Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)	100 ppm (Toluene; EU; Short time value; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	77 mg/m <sup>3</sup> Toluène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	20 ppm (Toluène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup> (Toluène; Belgium; Short time value)
Belgium	Short time value (ppm)	100 ppm (Toluène; Belgium; Short time value)
France	VME (mg/m <sup>3</sup> )	76.8 mg/m <sup>3</sup> (Toluène; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	20 ppm (Toluène; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VLE (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup> (Toluène; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VLE (ppm)	100 ppm (Toluène; France; Short time value; VRC: Valeur réglementaire contraignante)
Germany	TRGS 910 Acceptable concentration notes	
Greece	OEL TWA (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	50 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	100 ppm
Italy	Local name	Toluene
Italy	OEL TWA (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	39 ppm
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup> (Toluene; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	39 ppm (Toluene; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup> (Toluene; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (ppm)	100 ppm (Toluene; Netherlands; Short time value; Public occupational exposure limit value)
Spain	Local name	Tolueno
Spain	VLA-ED (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	50 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	100 ppm



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### toluene (108-88-3)

Spain	Notes	Vía dérmica: (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento.), VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento.), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país.), r (Esta sustancia tiene establecidas restricciones a la fabricación, la comercialización o el uso en los términos especificados en el "Reglamento (CE) n° 1907/2006 sobre Registro, Evaluación, Autorización y Restricción de sustancias y preparados químicos" (REACH) de 18 de diciembre de 2006 (DOUE L 369 de 30 de diciembre de 2006). Las restricciones de una sustancia pueden aplicarse a todos los usos o sólo a usos concretos. El anexo XVII del Reglamento REACH contiene la lista de todas las sustancias restringidas y especifica los usos que se han restringido.)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	191 mg/m <sup>3</sup> Toluene; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	50 ppm Toluene; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup> Toluene; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	100 ppm Toluene; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
USA - ACGIH	Local name	Toluene
USA - ACGIH	ACGIH TWA (ppm)	20 ppm
USA - ACGIH	Remark (ACGIH)	Visual impair; female repro;

### 8.2. Exposure controls

#### Personal protective equipment:

Gloves. Safety glasses. Protective clothing. Gas mask.

#### Hand protection:

Protective gloves

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR)	6 (> 480 minutes)		3 (> 0.65)	EN ISO 374

#### Eye protection:

Safety glasses

Type	Use	Characteristics	Standard
Safety glasses		With side shields	EN 166

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Ensure good ventilation of the work station

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Device	Filter type	Condition	Standard
Breathing apparatus	Gas/vapour filter	Vapour protection	

Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Yellow. clear.
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	: 0.863 - 0.873 g/cm <sup>3</sup> - 20°C
Solubility	: Insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Open flame. Sparks. Heat. 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 as dangerous according to the criteria of Regulation (EC) No 1272/2008
Acute toxicity (dermal)	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008
Acute toxicity (inhalation)	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

ATE CLP (dermal)	1100 mg/kg bodyweight
ATE CLP (dust,mist)	1.818 mg/l/4h

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### xylylene (1330-20-7)

LD50 oral rat	4300 mg/kg
LD50 dermal rabbit	2000 mg/kg
LC50 inhalation rat (mg/l)	6350 mg/l/4h

### ethylbenzene (100-41-4)

LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	15415 mg/kg
LC50 inhalation rat (mg/l)	17.8 mg/l/4h
LC50 inhalation rat (ppm)	4000 ppm/4h

### naphthalene (91-20-3)

LD50 oral rat	2600 mg/kg
LD50 dermal rat	> 2500 mg/kg

### toluene (108-88-3)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	12223 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l/4h

Skin corrosion/irritation	: Harmful in contact with skin.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008
Germ cell mutagenicity	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008
Carcinogenicity	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

### toluene (108-88-3)

IARC group	3 - Not classifiable
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Reproductive toxicity	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs (kidneys) through prolonged or repeated exposure (if swallowed:).
Aspiration hazard	: May be fatal if swallowed and enters airways.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: Harmful to aquatic life with long lasting effects.
Acute aquatic toxicity	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008
Chronic aquatic toxicity	: Harmful to aquatic life with long lasting effects.

### xylylene (1330-20-7)

LC50 other aquatic organisms 1	8.9 - 16.4 mg/l (Pimephales promelas 96h)
EC50 Daphnia 1	3.2 - 9.5 mg/l (Daphnia magna) (48h)

### ethylbenzene (100-41-4)

LC50 fish 2	4.2 mg/l
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### naphthalene (91-20-3)

LC50 fish 1	0.51 mg/l
EC50 Daphnia 1	3.4 mg/l

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<b>toluene (108-88-3)</b>	
LC50 fish 1	24 mg/l <i>Salmo gairdneri</i> ( <i>Oncorhynchus mykiss</i> )
LC50 fish 2	13 mg/l <i>Lepomis macrochirus</i>
EC50 Daphnia 1	84 mg/l Locomotor effect
EC50 Daphnia 2	11.5 - 19.6 mg/l
Threshold limit algae 1	> 400 mg/l <i>Scenedesmus quadricauda</i> ; toxicity test
Threshold limit algae 2	105 mg/l <i>Microcystis aeruginosa</i>

<b>oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1) (34140-91-5)</b>	
LC50 fish 1	0.01 - 0.1
EC50 Daphnia 1	0.01 - 0.1
EC50 72h algae (1)	0.01 - 0.1 mg/l

### 12.2. Persistence and degradability

<b>xylene (1330-20-7)</b>	
Persistence and degradability	Readily biodegradable.

<b>ethylbenzene (100-41-4)</b>	
Persistence and degradability	Readily biodegradable.
Biochemical oxygen demand (BOD)	1.44 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.1 g O <sub>2</sub> /g substance
ThOD	3.17 g O <sub>2</sub> /g substance
BOD (% of ThOD)	45.4 % ThOD

<b>naphthalene (91-20-3)</b>	
Persistence and degradability	Inherently biodegradable.

<b>toluene (108-88-3)</b>	
Persistence and degradability	Readily biodegradable.
Biochemical oxygen demand (BOD)	2.15 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.52 g O <sub>2</sub> /g substance
ThOD	3.13 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.69 % ThOD

### 12.3. Bioaccumulative potential

<b>xylene (1330-20-7)</b>	
BCF fish 2	7 - 26
Bioconcentration factor (BCF REACH)	< 500
Log Pow	3.2

<b>ethylbenzene (100-41-4)</b>	
BCF fish 1	1
BCF fish 2	15 - 79
BCF other aquatic organisms 1	4.68
Bioconcentration factor (BCF REACH)	< 500
Log Pow	3.15

<b>toluene (108-88-3)</b>	
BCF fish 1	13.2 <i>Anguilla japonica</i>

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BCF fish 2	90 72h; Leuciscus idus
BCF other aquatic organisms 1	380 24h; Chlorella sp; Fresh weight
BCF other aquatic organisms 2	4.2 4.2; Mytilus edulis; Fresh weight
Log Pow	2.73 Experimental value
Bioaccumulative potential	Low.

### 12.4. Mobility in soil

#### xylene (1330-20-7)

Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
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#### ethylbenzene (100-41-4)

Surface tension	0.029 N/m
Log Koc	PCKOCWIN v1.66; 2.71; Calculated value; Koc; PCKOCWIN v1.66; 517.8; Calculated value

#### toluene (108-88-3)

Surface tension	0.03 N/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

Product/Packaging disposal recommendations : Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Prevent entry to sewers and public waters. Collect all waste in suitable and labelled containers and dispose according to local legislation. Do not re-use empty containers.

## SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
UN 1993	UN 1993	UN 1993	UN 1993	UN 1993
<b>14.2. UN proper shipping name</b>				
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.
<b>Transport document description</b>				
UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III, (D/E)	UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III	UN 1993 Flammable liquid, n.o.s., 3, III	UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III	UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III
<b>14.3. Transport hazard class(es)</b>				
3	3	3	3	3
				
<b>14.4. Packing group</b>				
III	III	III	III	III
<b>14.5. Environmental hazards</b>				
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

Clean up even minor leaks or spills if possible without unnecessary risk

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### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: F1
Special provisions (ADR)	: 274, 601, 640E
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)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
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
EAC code	: •3YE

#### Transport by sea

Special provisions (IMDG)	: 223, 274, 955
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: A

#### Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3L

#### Inland waterway transport

Classification code (ADN)	: F1
Special provisions (ADN)	: 274, 601, 640E
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 0

#### Rail transport

Classification code (RID)	: F1
Special provisions (RID)	: 274, 601, 640E

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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)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP29
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.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

#### 15.1.2. National regulations

##### France

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

##### Germany

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

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : toluene,4-methylpentan-2-ol; methyl isobutyl carbinol are listed

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

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

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

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : xylene,toluene are listed

##### Denmark

Class for fire hazard : Class II-1

Store unit : 5 liter

Classification remarks : R10 <H226;H304;H312;H315;H319;H332;H335;H373;H412>; 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 additional information available



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### SECTION 16: Other information

#### Indication of changes:

Section	Changed item	Change	Comments
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	

#### Abbreviations and acronyms:

	Abbreviations and acronyms:  RID: Regulations Concerning the International Transport of Dangerous Goods by Rail ICAO: International Civil Aviation Organization ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent
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#### Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
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
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, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
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.

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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.
H411	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.*