



# EGR Valver Cleaner

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Date of issue: 9/3/2019 Revision date: 12/9/2019 Supersedes: 9/3/2019 Version: 1.1

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : EGR Valver Cleaner  
Product code : 4326  
Type of product : Aerosol  
Vaporizer : Aerosol  
Article number : 4326

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

##### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Professional use.  
Consumer use  
Function or use category : Aerosol propellants

##### 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]

Aerosol, Category 1 H222;H229  
Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2 H319  
Specific target organ toxicity — Repeated exposure, Category 2 H373  
Aspiration hazard, Category 1 H304  
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

Hazard statements (CLP)

: H222 - Extremely flammable aerosol.  
H229 - Pressurised container: May burst if heated.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H373 - May cause damage to organs 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.  
P260 - Do not breathe gas, mist.  
P264 - Wash hands thoroughly after handling.  
P280 - Wear protective gloves, eye protection, face protection.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/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.  
P501 - Dispose of contents/container to a facility for the collection of hazardous or special waste.  
P210 - Keep away from heat, hot surfaces, sparks, open flames, Sources of ignition. 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

: Not overly spraying, only use for its original purpose.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Comments

: aliphatic hydrocarbons  $\geq$  30%  
aromatic hydrocarbons 5-15%

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
acetone; propan-2-one; propanone	(CAS-No.) 67-64-1 (EC-No.) 200-662-2 (EC Index-No.) 606-001-00-8 (REACH-no) 01-2119471330-49	15 - 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
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	5 - 15	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
4-hydroxy-4-methylpentan-2-one; diacetone alcohol	(CAS-No.) 123-42-2 (EC-No.) 204-626-7 (EC Index-No.) 603-016-00-1 (REACH-no) 01-2119473975-21	< 10	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335

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ethylbenzene	(CAS-No.) 100-41-4 (EC-No.) 202-849-4 (EC Index-No.) 601-023-00-4 (REACH-no) 01-2119489370-35	< 5	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304
toluene	(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

### Specific concentration limits:

Name	Product identifier	Specific concentration limits
4-hydroxy-4-methylpentan-2-one; diacetone alcohol	(CAS-No.) 123-42-2 (EC-No.) 204-626-7 (EC Index-No.) 603-016-00-1 (REACH-no) 01-2119473975-21	( 10 =<C < 100) Eye Irrit. 2, H319

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 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 clothing immediately. 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	: Causes damage to organs.
Symptoms/effects after inhalation	: Shortness of breath. May cause irritation to the respiratory tract. May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: 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. Dry powder. Water haze. Foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Extremely flammable aerosol.
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 will generate poisonous 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	: Eliminate every possible source of ignition. Evacuate area. Ensure adequate ventilation, especially in confined areas. Keep public away from danger area. Equip cleanup crew with proper protection.
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### 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. Dike for recovery or absorb with appropriate material.

### 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 : Extremely flammable aerosol. Pressurised container: May burst if heated. Do not pierce or burn, even after use.

Precautions for safe handling : Do not eat, drink or smoke when using this product. Provide good ventilation in process area to prevent formation of flammable vapour. For further information refer to section 8: "Exposure controls/personal protection". Do not spray on an open flame or other ignition source. Container under pressure. Do not drill or burn even after use.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

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

Technical measures : Provide local exhaust or general room ventilation.

Incompatible materials : Freezing.

Heat and 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 : Keep only in original container.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### acetone; propan-2-one; propanone (67-64-1)

##### EU - Occupational Exposure Limits

Local name	Acetone
IOELV TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
IOELV TWA (ppm)	500 ppm

##### Estonia - Occupational Exposure Limits

OEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
OEL TWA (ppm)	500 ppm

##### Netherlands - Occupational Exposure Limits

Local name	Aceton
Grenswaarde TGG 8H (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Grenswaarde TGG 8H (ppm)	510 ppm
Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	2420 mg/m <sup>3</sup>

#### ethylbenzene (100-41-4)

##### EU - Occupational Exposure Limits

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

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<b>ethylbenzene (100-41-4)</b>	
VLA-EC (ppm)	200 ppm
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.)
<b>United Kingdom - Occupational Exposure Limits</b>	
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)
WEL TWA (ppm)	100 ppm Ethylbenzene; United Kingdom; Timeweighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
WEL STEL (mg/m <sup>3</sup> )	552 mg/m <sup>3</sup> Ethylbenzene; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
WEL STEL (ppm)	125 ppm Ethylbenzene; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Ethyl benzene
ACGIH TWA (ppm)	20 ppm
Remark (ACGIH)	URT irr; kidney dam (nephropathy)
<b>toluene (108-88-3)</b>	
<b>EU - Occupational Exposure Limits</b>	
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)
IOELV TWA (ppm)	50 ppm (Toluene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
IOELV STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup> (Toluene; EU; Short time value; Indicative occupational exposure limit value)
IOELV STEL (ppm)	100 ppm (Toluene; EU; Short time value; Indicative occupational exposure limit value)
<b>Belgium - Occupational Exposure Limits</b>	
Limit value (mg/m <sup>3</sup> )	77 mg/m <sup>3</sup> Toluène; Belgium; Time-weighted average exposure limit 8 h)
Limit value (ppm)	20 ppm (Toluène; Belgium; Time-weighted average exposure limit 8 h)
Short time value (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup> (Toluène; Belgium; Short time value)
Short time value (ppm)	100 ppm (Toluène; Belgium; Short time value)
<b>France - Occupational Exposure Limits</b>	
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)
VME (ppm)	20 ppm (Toluène; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
VLE (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup> (Toluène; France; Short time value; VRC: Valeur réglementaire contraignante)

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<b>toluene (108-88-3)</b>	
VLE (ppm)	100 ppm (Toluène; France; Short time value; VRC: Valeur réglementaire contraignante)
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm
<b>Italy - Occupational Exposure Limits</b>	
Local name	Toluene
OEL TWA (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
OEL TWA (ppm)	39 ppm
<b>Netherlands - Occupational Exposure Limits</b>	
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)
Grenswaarde TGG 8H (ppm)	39 ppm (Toluene; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup> (Toluene; Netherlands; Short time value; Public occupational exposure limit value)
Grenswaarde TGG 15MIN (ppm)	100 ppm (Toluene; Netherlands; Short time value; Public occupational exposure limit value)
<b>Spain - Occupational Exposure Limits</b>	
Local name	Tolueno
VLA-ED (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
VLA-ED (ppm)	50 ppm
VLA-EC (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
VLA-EC (ppm)	100 ppm
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) nº 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.)
<b>United Kingdom - Occupational Exposure Limits</b>	
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)
WEL TWA (ppm)	50 ppm Toluene; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
WEL STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup> Toluene; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)



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<b>toluene (108-88-3)</b>	
WEL STEL (ppm)	100 ppm Toluene; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Toluene
ACGIH TWA (ppm)	20 ppm
Remark (ACGIH)	Visual impair; female repro;
<b>xylene (1330-20-7)</b>	
<b>EU - Occupational Exposure Limits</b>	
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)
IOELV TWA (ppm)	50 ppm (Xylene, mixed isomers, pure; EU; Timeweighted average exposure limit 8 h; Indicative occupational exposure limit value)
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)
IOELV STEL (ppm)	100 ppm (Xylene, mixed isomers, pure; EU; Short time value; Indicative occupational exposure limit value)
<b>Austria - Occupational Exposure Limits</b>	
MAK (mg/m <sup>3</sup> )	210 mg/m <sup>3</sup> (Long term value)
MAK (ppm)	50 ppm (Long term value)
MAK Short time value (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
MAK Short time value (ppm)	100 ppm
<b>Belgium - Occupational Exposure Limits</b>	
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)
Limit value (ppm)	50 ppm (Xylène, isomères mixtes, purs; Belgium; Time-weighted average exposure limit 8 h)
Short time value (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup> (Xylène, isomères mixtes, purs; Belgium; Short time value)
Short time value (ppm)	100 ppm (Xylène, isomères mixtes, purs; Belgium; Short time value)
<b>France - Occupational Exposure Limits</b>	
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)
VME (ppm)	50 ppm (Xylènes, isomères mixtes, purs; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
VLE (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup> (Xylènes, isomères mixtes, purs; France; Short time value; VRC: Valeur réglementaire contraignante)
VLE (ppm)	100 ppm (Xylènes, isomères mixtes, purs; France; Short time value; VRC: Valeur réglementaire contraignante)
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	435
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m <sup>3</sup> )	650 mg/m <sup>3</sup>
OEL STEL (ppm)	150 ppm



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### xylylene (1330-20-7)

#### Italy - Occupational Exposure Limits

Local name	Xilene, isomeri misti, puro
OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm

#### Netherlands - Occupational Exposure Limits

Grenswaarde TGG 8H (mg/m <sup>3</sup> )	210 mg/m <sup>3</sup>
Grenswaarde TGG 8H (ppm)	50 ppm
Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Grenswaarde TGG 15MIN (ppm)	100 ppm

#### Spain - Occupational Exposure Limits

Local name	Xilenos, mezcla isómeros
VLA-ED (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
VLA-ED (ppm)	50 ppm
VLA-EC (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
VLA-EC (ppm)	100 ppm

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.)
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#### USA - ACGIH - Occupational Exposure Limits

Local name	Xylene
ACGIH TWA (ppm)	100 ppm
ACGIH STEL (ppm)	150 ppm
Remark (ACGIH)	URT & eye irr; CNS impair

### 8.2. Exposure controls

#### Personal protective equipment:

Gloves. Safety glasses.

<b>Hand protection:</b>					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Safety gloves					EN ISO 374

<b>Eye protection:</b>			
Type	Use	Characteristics	Standard
Safety glasses			EN 166

<b>Skin and body protection:</b>	
Wear suitable protective clothing	

<b>Respiratory protection:</b>	
Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment. Good ventilation of the workplace required	

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Personal protective equipment symbol(s):



### SECTION 9: Physical and chemical properties

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

Physical state	: 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	: > 35 °C
Flash point	: 21 °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	: 0.84
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: < 20.5 mm <sup>2</sup> /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

Extremely flammable aerosol. Contains gas under pressure; may explode if heated.

#### 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

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

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 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

#### acetone; propan-2-one; propanone (67-64-1)

LD50 oral rat	5800 mg/kg
LD50 dermal rabbit	7800 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l/4h

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<b>ethylbenzene (100-41-4)</b>	
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

<b>toluene (108-88-3)</b>	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	12223 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l/4h

<b>xylene (1330-20-7)</b>	
LD50 oral rat	4300 mg/kg
LD50 dermal rabbit	2000 mg/kg
LC50 inhalation rat (mg/l)	6350 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
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

<b>toluene (108-88-3)</b>	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008  
STOT-single exposure : Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

<b>acetone; propan-2-one; propanone (67-64-1)</b>	
LOAEL (oral, rat)	5800 mg/kg bodyweight OECD 401
LOAEL (dermal, rat/rabbit)	2000 mg/kg bodyweight OECD 402
LOAEC (inhalation, rat, gas)	30000 ppmv/4h
LOAEC (inhalation, rat, vapour)	71 mg/l/4h

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.  
Aspiration hazard : May be fatal if swallowed and enters airways.

<b>EGR Valver Cleaner</b>	
Vaporizer	Aerosol
Viscosity, kinematic	< 20.5 mm <sup>2</sup> /s 40°C

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008  
Hazardous to the aquatic environment, long-term (chronic) : Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

<b>acetone; propan-2-one; propanone (67-64-1)</b>	
LC50 fish 1	6210 mg/l Pimephales promelas; normal concentration
LC50 fish 2	5540 mg/l Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	8800 mg/l
TLM fish 1	13000 ppm 96h Gambusia affinis; Turbulent water
TLM fish 2	> 1000 ppm 96h Pisces

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Threshold limit other aquatic organisms 1	3000 mg/l Plankton
Threshold limit other aquatic organisms 2	28 mg/l Protozoa
Threshold limit algae 1	7500 mg/l <i>Scenedesmus quadricauda</i> ; pH=7
Threshold limit algae 2	3400 mg/l 48h <i>Chlorella</i> sp.

### ethylbenzene (100-41-4)

LC50 fish 2	4.2 mg/l
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### toluene (108-88-3)

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>

### xylene (1330-20-7)

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

## 12.2. Persistence and degradability

### acetone; propan-2-one; propanone (67-64-1)

Persistence and degradability	Readily biodegradable.
Biochemical oxygen demand (BOD)	1.43 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.92 g O <sub>2</sub> /g substance
ThOD	2.2 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.872 % ThOD 20 days

### ethylbenzene (100-41-4)

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

### toluene (108-88-3)

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

### xylene (1330-20-7)

Persistence and degradability	Readily biodegradable.
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## 12.3. Bioaccumulative potential

### acetone; propan-2-one; propanone (67-64-1)

BCF fish 1	0.69 Pisces
BCF other aquatic organisms 1	3

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Log Pow	-0.24 Test data
Bioaccumulative potential	Not established.

### ethylbenzene (100-41-4)

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

### toluene (108-88-3)

BCF fish 1	13.2 Anguilla japonica
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.

### xylene (1330-20-7)

BCF fish 2	7 - 26
Bioconcentration factor (BCF REACH)	< 500
Log Pow	3.2

#### 12.4. Mobility in soil

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

Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
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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 at hazardous or special waste collection point.
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	: Avoid release to the environment.
European List of Waste (LoW) code	: 16 05 04* - gases in pressure containers (including halons) containing dangerous substances





## SECTION 14: Transport information

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

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ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950
<b>14.2. UN proper shipping name</b>				
AEROSOLS	AEROSOLS	Aerosols, flammable, containing substances in class 8, packing group ii	AEROSOLS	AEROSOLS
<b>Transport document description</b>				
UN 1950 AEROSOLS, 2.1, (D)	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, containing substances in class 8, packing group ii, 2.1	UN 1950 AEROSOLS, 2.1	UN 1950 AEROSOLS, 2.1
<b>14.3. Transport hazard class(es)</b>				
2.1	2.1	2.1 (8)	2.1	2.1
		Not applicable		
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<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
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

#### Air transport

PCA Limited quantities (IATA) : Forbidden  
PCA limited quantity max net quantity (IATA) : Forbidden  
PCA packing instructions (IATA) : Forbidden  
PCA max net quantity (IATA) : Forbidden

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CAO packing instructions (IATA) : Forbidden  
CAO max net quantity (IATA) : Forbidden  
ERG code (IATA) : 10C

### Inland waterway transport

Classification code (ADN) : 5F  
Special provisions (ADN) : 19, 327, 344, 625  
Limited quantities (ADN) : 1 L  
Excepted quantities (ADN) : E0  
Equipment required (ADN) : PP, EX, A  
Ventilation (ADN) : VE01, VE04  
Number of blue cones/lights (ADN) : 1

### 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

Other information, restriction and prohibition regulations : aliphatic hydrocarbons  $\geq$  30%. aromatic hydrocarbons. 5-15%.

#### 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 84 - Affections engendrées par les solvants organiques liquides à usage professionnel

##### 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 : Listed in the 12. BImSchV (Annex I) under:  
Quantity threshold for operational area under § 1 para. 1  
Sentence 1:  
Sentence 2:

##### Netherlands

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



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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 : toluene,xylene are listed

### Denmark

Class for fire hazard : Class I-1

Store unit : 1 liter

Classification remarks : F <Aerosol 1>; 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

## SECTION 16: Other information

### Indication of changes:

Section	Changed item	Change	Comments
	Vaporizer	Added	
	Segregation (IMDG)	Added	
	Stowage and handling (IMDG)	Added	
	Packing instructions (ADR)	Modified	
	Packing instructions (RID)	Modified	
	Special provisions (IMDG)	Modified	
	Proper Shipping Name (IATA)	Added	
	PCA packing instructions (IATA)	Modified	
	PCA max net quantity (IATA)	Modified	
	PCA limited quantity max net quantity (IATA)	Modified	
	PCA Limited quantities (IATA)	Modified	
	ERG code (IATA)	Modified	
	CAO packing instructions (IATA)	Modified	
	CAO max net quantity (IATA)	Modified	
	Date of issue	Added	
	Revision date	Added	
1.1	Other means of identification	Added	
1.1	Product code	Modified	
1.1	Name	Modified	
2.1	Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]	Added	
2.2	Precautionary statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
4.2	Symptoms/effects after ingestion	Added	
4.2	Symptoms/effects	Added	
4.2	Symptoms/effects after inhalation	Modified	
5.2	Fire hazard	Modified	
7.1	Additional hazards when processed	Modified	

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9.1	Flash point	Added	
9.1	Boiling point	Added	
10.1	Reactivity	Added	
10.5	Incompatible materials	Added	
13.1	European List of Waste (LoW) code	Modified	
14.6	Packing instructions (IMDG)	Modified	
15.1	Occupational diseases	Modified	
15.1	Other information, restriction and prohibition regulations	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
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
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
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst 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.

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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.*