

# EPA 524 Rev 4 Additions Mix

## Safety Data Sheet

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

Date of issue: 31/12/2017

Revision date:

Version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : EPA 524 Rev 4 Additions Mix  
Product code : AL0-101661  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Main use category : Laboratory Use  
Industrial/Professional use spec : Industrial  
For professional use only

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Phenova  
6390 Joyce Dr. Suite 100  
80403 Golden, CO - United States  
T 1-866-942-2978 - F 1-866-283-0269  
[info@phenova.com](mailto:info@phenova.com) - [www.phenova.com](http://www.phenova.com)

#### 1.4. Emergency telephone number

Emergency number : ChemTel Assistance (US/Canada) 1-800-255-3924  
ChemTel Assistance (International) +1 813-248-0585

### SECTION 2: Hazards identification

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

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

Flam. Liq. 1	H224
Acute Tox. 3 (Oral)	H301
Acute Tox. 3 (Dermal)	H311
Skin Sens. 1	H317
Carc. 1B	H350
STOT SE 1	H370
STOT RE 2	H373
Aquatic Chronic 3	H412

##### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.2; R45  
F+; R12  
T; R23/24/25  
T; R39/23/24/25  
Xn; R48/20  
R43  
R19  
R52/53

Full text of R-phrases: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

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### 2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazard statements (CLP) :

H224 - Extremely flammable liquid and vapor  
H301+H311 - Toxic if swallowed or in contact with skin  
H317 - May cause an allergic skin reaction  
H350 - May cause cancer  
H370 - Causes damage to organs  
H373 - May cause damage to organs through prolonged or repeated exposure  
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P233 - Keep container tightly closed  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
P270 - Do not eat, drink or smoke when using this product  
P273 - Avoid release to the environment  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water  
P308+P313 - IF exposed or concerned: Get medical advice/attention  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
P362+P364 - Take off contaminated clothing and wash it before reuse  
P370+P378 - In case of fire: Use media other than water to extinguish  
P403+P235 - Store in a well-ventilated place. Keep cool  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

EUH phrases :

EUH019 - May form explosive peroxides

No labeling applicable

### 2.3. Other hazards

Contains PBT substances >= 0.1% assessed in accordance with REACH, Annex XIII

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
methanol (Component)	(CAS No) 67-56-1 (EC-No.) 200-659-6 (EC index no) 603-001-00-X	96.4	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
acrylonitrile, inhibited (Component)	(CAS No) 107-13-1 (EC-No.) 203-466-5 (EC index no) 608-003-00-4	0.2	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1B, H350 STOT SE 3, H335 Aquatic Chronic 2, H411
allyl chloride (Component)	(CAS No) 107-05-1 (EC-No.) 203-457-6 (EC index no) 602-029-00-X	0.2	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 2, H341 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
carbon disulfide (Component)	(CAS No) 75-15-0 (EC-No.) 200-843-6 (EC index no) 006-003-00-3	0.2	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361fd STOT RE 1, H372
chloroacetonitrile (Component)	(CAS No) 107-14-2 (EC-No.) 203-467-0 (EC index no) 608-008-00-1	0.2	Flam. Liq. 3, H226 Acute Tox. 2 (Dermal), H310 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Oral), H301 Aquatic Chronic 2, H411
1,4-dichloro-2-butene, trans- (Component)	(CAS No) 110-57-6 (EC-No.) 203-779-7 (EC index no) 602-073-00-X	0.2	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
diethyl ether (Component) substance with a Community workplace exposure limit	(CAS No) 60-29-7 (EC-No.) 200-467-2 (EC index no) 603-022-00-4	0.2	Flam. Liq. 1, H224 Acute Tox. 4 (Oral), H302 STOT SE 3, H336
ethyl methacrylate (Component)	(CAS No) 97-63-2 (EC-No.) 202-597-5 (EC index no) 607-071-00-2	0.2	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335
hexachloroethane (Component)	(CAS No) 67-72-1 (EC-No.) 200-666-4	0.2	Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
methacrylonitrile (Component)	(CAS No) 126-98-7 (EC-No.) 204-817-5 (EC index no) 608-010-00-2	0.2	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, H317
methacrylate, inhibited (Component)	(CAS No) 96-33-3 (EC-No.) 202-500-6 (EC index no) 607-034-00-0	0.2	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335
tert-Butyl Methyl Ether (MTBE) (Component) substance with a Community workplace exposure limit	(CAS No) 1634-04-4 (EC-No.) 216-653-1 (EC index no) 603-181-00-X	0.2	Flam. Liq. 2, H225 Skin Irrit. 2, H315
methylmethacrylate (Component)	(CAS No) 80-62-6 (EC-No.) 201-297-1 (EC index no) 607-035-00-6	0.2	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335
nitrobenzene (Component) substance listed as REACH Candidate	(CAS No) 98-95-3 (EC-No.) 202-716-0 (EC index no) 609-003-00-7	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Carc. 2, H351 Repr. 1B, H360F STOT RE 1, H372 Aquatic Chronic 3, H412
2-nitropropane (Component)	(CAS No) 79-46-9 (EC-No.) 201-209-1 (EC index no) 609-002-00-1	0.2	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Carc. 1B, H350
pentachloroethane (Component)	(CAS No) 76-01-7 (EC-No.) 200-925-1 (EC index no) 602-017-00-4	0.2	Carc. 2, H351 STOT RE 1, H372 Aquatic Chronic 2, H411
propionitrile (Component)	(CAS No) 107-12-0 (EC-No.) 203-464-4	0.2	Flam. Liq. 2, H225 Acute Tox. 2 (Oral), H300 Acute Tox. 2 (Dermal), H310 Eye Irrit. 2, H319
tetrahydrofuran (Component)	(CAS No) 109-99-9 (EC-No.) 203-726-8 (EC index no) 603-025-00-0	0.2	Flam. Liq. 2, H225 Acute Tox. 1 (Oral), H300 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335
Name	Product identifier	Specific concentration limits	
methanol (Component)	(CAS No) 67-56-1 (EC-No.) 200-659-6 (EC index no) 603-001-00-X	( 3 =<C < 10) STOT SE 2, H371 (C >= 10) STOT SE 1, H370	
carbon disulfide (Component)	(CAS No) 75-15-0 (EC-No.) 200-843-6 (EC index no) 006-003-00-3	( 0.2 =<C < 1) STOT RE 2, H373 (C >= 1) STOT RE 1, H372 (C >= 1) Repr. 2, H361fd	

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Name	Product identifier	Specific concentration limits
1,4-dichloro-2-butene, trans- (Component)	(CAS No) 110-57-6 (EC-No.) 203-779-7 (EC index no) 602-073-00-X	(C >= 0.01) Carc. 1B, H350 (C >= 5) STOT SE 3, H335
methacrylonitrile (Component)	(CAS No) 126-98-7 (EC-No.) 204-817-5 (EC index no) 608-010-00-2	(C >= 0.2) Skin Sens. 1, H317
pentachloroethane (Component)	(CAS No) 76-01-7 (EC-No.) 200-925-1 (EC index no) 602-017-00-4	( 0.2 <= C < 1) STOT RE 2, H373 (C >= 1) STOT RE 1, H372
tetrahydrofuran (Component)	(CAS No) 109-99-9 (EC-No.) 203-726-8 (EC index no) 603-025-00-0	(C >= 25) Eye Irrit. 2, H319 (C >= 25) STOT SE 3, H335

### 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. Call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical advice/attention.
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Get medical advice/attention.
- First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking or redness persists.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a poison center or doctor/physician.

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

- Symptoms/effects after inhalation : May cause an allergic skin reaction.
- Symptoms/effects after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.
- Symptoms/effects after ingestion : Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : Do not use a heavy water stream.

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

- Fire hazard : Extremely flammable liquid and vapor.
- Explosion hazard : May form flammable/explosive vapor-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. May form explosive peroxides.

#### 5.3. Advice for firefighters

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

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.
- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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

- Methods for cleaning up : Take up in absorbent material. Collect spillage.

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### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion.
- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from sources of ignition - No smoking.
- Hygiene measures : Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.

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

- Technical measures : Ground/bond container and receiving equipment. Proper grounding procedures to avoid static electricity should be followed.
- Storage conditions : Keep in fireproof place. Keep container tightly closed. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.
- Incompatible products : Oxidizing agent.
- Incompatible materials : Direct sunlight. Heat sources.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>acrylonitrile, inhibited (107-13-1)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	4.4 mg/m <sup>3</sup> (Acrylonitrile; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	2 ppm (Acrylonitrile; Belgium; Time-weighted average exposure limit 8 h)
France	VLE (mg/m <sup>3</sup> )	32.5 mg/m <sup>3</sup> (Acrylonitrile; France; Short time value; VL: Valeur non réglementaire indicative)
France	VLE (ppm)	15 ppm (Acrylonitrile; France; Short time value; VL: Valeur non réglementaire indicative)
France	VME (mg/m <sup>3</sup> )	4.5 mg/m <sup>3</sup> (Acrylonitrile; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	2 ppm (Acrylonitrile; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	2 ppm (Acrylonitrile; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	4.4 mg/m <sup>3</sup> Acrylonitrile; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	2 ppm Acrylonitrile; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
<b>allyl chloride (107-05-1)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (Chlorure d'allyle; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	1 ppm (Chlorure d'allyle; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> (Chlorure d'allyle; Belgium; Short time value)
Belgium	Short time value (ppm)	2 ppm (Chlorure d'allyle; Belgium; Short time value)
France	VME (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (3-Chloropropène; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	1 ppm (3-Chloropropène; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	1 ppm (Allyl chloride; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)

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<b>allyl chloride (107-05-1)</b>		
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	2 ppm (Allyl chloride; USA; Short time value; TLV - Adopted Value)
<b>carbon disulfide (75-15-0)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (Carbon disulphide; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	5 ppm (Carbon disulphide; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	3.16 mg/m <sup>3</sup> (Carbone (sulfure de); Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	1 ppm (Carbone (sulfure de); Belgium; Time-weighted average exposure limit 8 h)
France	VLE (mg/m <sup>3</sup> )	75 mg/m <sup>3</sup> (Sulfure de carbone; France; Short time value; VL: Valeur non réglementaire indicative)
France	VLE (ppm)	25 ppm (Sulfure de carbone; France; Short time value; VL: Valeur non réglementaire indicative)
France	VME (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (Sulfure de carbone; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	5 ppm (Sulfure de carbone; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	1 ppm (Carbon disulfide; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (Zwavelkoolstof; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	4.74 ppm (Zwavelkoolstof; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> Carbon disulphide; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	5 ppm Carbon disulphide; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
<b>1,4-dichloro-2-butene, trans- (110-57-6)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (1,4-Dichloro-2-butène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	0.005 ppm (1,4-Dichloro-2-butène; Belgium; Time-weighted average exposure limit 8 h)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.005 ppm (1,4-Dichloro-2-butene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
<b>diethyl ether (60-29-7)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup> (Diethylether; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	100 ppm (Diethylether; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV STEL (mg/m <sup>3</sup> )	616 mg/m <sup>3</sup> (Diethylether; EU; Short time value; Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)	200 ppm (Diethylether; EU; Short time value; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup> (Oxyde de diéthyle; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	100 ppm (Oxyde de diéthyle; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m <sup>3</sup> )	616 mg/m <sup>3</sup> (Oxyde de diéthyle; Belgium; Short time value)
Belgium	Short time value (ppm)	200 ppm (Oxyde de diéthyle; Belgium; Short time value)
France	VLE (mg/m <sup>3</sup> )	616 mg/m <sup>3</sup> (Oxyde de diéthyle; France; Short time value; VRC: Valeur réglementaire contraignante)

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<b>diethyl ether (60-29-7)</b>		
France	VLE (ppm)	200 ppm (Oxyde de diéthyle; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VME (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup> (Oxyde de diéthyle; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	100 ppm (Oxyde de diéthyle; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	400 ppm (Ethyl ether; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	500 ppm (Ethyl ether; USA; Short time value; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup> (Diethylether; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	100 ppm (Diethylether; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	616 mg/m <sup>3</sup> (Diethylether; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (ppm)	200 ppm (Diethylether; Netherlands; Short time value; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup> Diethyl ether; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	100 ppm Diethyl ether; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	620 mg/m <sup>3</sup> Diethyl ether; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	200 ppm Diethyl ether; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
<b>hexachloroethane (67-72-1)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	9.8 mg/m <sup>3</sup> (Hexachloroéthane; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	1 ppm (Hexachloroéthane; Belgium; Time-weighted average exposure limit 8 h)
France	VLE (ppm)	10 ppm (Hexachloroéthane; France; Short time value; VL: Valeur non réglementaire indicative)
France	VME (ppm)	1 ppm (Hexachloroéthane; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	1 ppm (Hexachloroethane; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
<b>tert-Butyl Methyl Ether (MTBE) (1634-04-4)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	183.5 mg/m <sup>3</sup> (Tertiary-butyl-methyl ether; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	50 ppm (Tertiary-butyl-methyl ether; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV STEL (mg/m <sup>3</sup> )	367 mg/m <sup>3</sup> (Tertiary-butyl-methyl ether; EU; Short time value; Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)	100 ppm (Tertiary-butyl-methyl ether; EU; Short time value; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	146 mg/m <sup>3</sup> (Oxyde de méthyle et de tert-butyle; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	40 ppm (Oxyde de méthyle et de tert-butyle; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m <sup>3</sup> )	367 mg/m <sup>3</sup> (Oxyde de méthyle et de tert-butyle; Belgium; Short time value)
Belgium	Short time value (ppm)	100 ppm (Oxyde de méthyle et de tert-butyle; Belgium; Short time value)
France	VLE (mg/m <sup>3</sup> )	367 mg/m <sup>3</sup> (Oxyde de tert-butyle et de méthyle; France; Short time value; VRC: Valeur réglementaire contraignante)

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<b>tert-Butyl Methyl Ether (MTBE) (1634-04-4)</b>		
France	VLE (ppm)	100 ppm (Oxyde de tert-butyle et de méthyle; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VME (mg/m <sup>3</sup> )	183.5 mg/m <sup>3</sup> (Oxyde de tert-butyle et de méthyle; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	50 ppm (Oxyde de tert-butyle et de méthyle; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50 ppm (Methyl-tert butyl ether (MTBE); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	180 mg/m <sup>3</sup> (tert-Butylmethylether; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	49 ppm (tert-Butylmethylether; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	360 mg/m <sup>3</sup> (tert-Butylmethylether; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (ppm)	98 ppm (tert-Butylmethylether; Netherlands; Short time value; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	183.5 mg/m <sup>3</sup> Methyl-tert-butyl-ether or Tertiary-butyl-methyl-ether; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	50 ppm Methyl-tert-butyl-ether or Tertiary-butyl-methyl-ether; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	367 mg/m <sup>3</sup> Methyl-tert-butyl-ether or Tertiary-butyl-methyl-ether; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	100 ppm Methyl-tert-butyl-ether or Tertiary-butyl-methyl-ether; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
<b>methylmethacrylate (80-62-6)</b>		
EU	IOELV TWA (ppm)	50 ppm (Methyl methacrylate; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)	100 ppm (Methyl methacrylate; EU; Short time value; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	208 mg/m <sup>3</sup> (Méthacrylate de méthyle; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	50 ppm (Méthacrylate de méthyle; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m <sup>3</sup> )	416 mg/m <sup>3</sup> (Méthacrylate de méthyle; Belgium; Short time value)
Belgium	Short time value (ppm)	100 ppm (Méthacrylate de méthyle; Belgium; Short time value)
France	VLE (mg/m <sup>3</sup> )	410 mg/m <sup>3</sup> (Méthacrylate de méthyle; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VLE (ppm)	100 ppm (Méthacrylate de méthyle; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VME (mg/m <sup>3</sup> )	205 mg/m <sup>3</sup> (Méthacrylate de méthyle; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	50 ppm (Méthacrylate de méthyle; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50 ppm (Methyl methacrylate; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	100 ppm (Methyl methacrylate; USA; Short time value; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	205 mg/m <sup>3</sup> (Methylmethacrylaat; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)



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<b>methylmethacrylate (80-62-6)</b>		
Netherlands	Grenswaarde TGG 8H (ppm)	49.2 ppm (Methylmethacrylaat; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	410 mg/m <sup>3</sup> (Methylmethacrylaat; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (ppm)	98.4 ppm (Methylmethacrylaat; Netherlands; Short time value; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	208 mg/m <sup>3</sup> Methyl methacrylate; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	50 ppm Methyl methacrylate; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	416 mg/m <sup>3</sup> Methyl methacrylate; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	100 ppm Methyl methacrylate; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
<b>nitrobenzene (98-95-3)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Nitrobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	0.2 ppm (Nitrobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Nitrobenzène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	0.2 ppm (Nitrobenzène; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Nitrobenzène; France; Time-weighted average exposure limit 8 h; VRI: Valeur réglementaire indicative)
France	VME (ppm)	0.2 ppm (Nitrobenzène; France; Time-weighted average exposure limit 8 h; VRI: Valeur réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	1 ppm (Nitrobenzene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Nitrobenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	0.2 ppm (Nitrobenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> Nitrobenzene; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	0.2 ppm Nitrobenzene; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
<b>2-nitropropane (79-46-9)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	37 mg/m <sup>3</sup> (2-Nitropropane; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	10 ppm (2-Nitropropane; Belgium; Time-weighted average exposure limit 8 h)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	10 ppm (2-Nitropropane; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	0.036 mg/m <sup>3</sup> (2-Nitropropan; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	0.0097 ppm (2-Nitropropan; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	19 mg/m <sup>3</sup> 2-Nitropropane; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)

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<b>2-nitropropane (79-46-9)</b>		
United Kingdom	WEL TWA (ppm)	5 ppm 2-Nitropropane; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
<b>tetrahydrofuran (109-99-9)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup> (Tetrahydrofuran; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	50 ppm (Tetrahydrofuran; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV STEL (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup> (Tetrahydrofuran; EU; Short time value; Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)	100 ppm (Tetrahydrofuran; EU; Short time value; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup> (Tetrahydrofurane; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	50 ppm (Tetrahydrofurane; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup> (Tetrahydrofurane; Belgium; Short time value)
Belgium	Short time value (ppm)	100 ppm (Tetrahydrofurane; Belgium; Short time value)
France	VLE (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup> (Tetrahydrofurane; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VLE (ppm)	100 ppm (Tetrahydrofurane; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VME (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup> (Tetrahydrofurane; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	50 ppm (Tetrahydrofurane; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50 ppm (Tetrahydrofuran; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	100 ppm (Tetrahydrofuran; USA; Short time value; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup> (Tetrahydrofuraan; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	100 ppm (Tetrahydrofuraan; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup> (Tetrahydrofuraan; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (ppm)	200 ppm (Tetrahydrofuraan; Netherlands; Short time value; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup> Tetrahydrofuran; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	50 ppm Tetrahydrofuran; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup> Tetrahydrofuran; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	100 ppm Tetrahydrofuran; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
<b>methanol (67-56-1)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup> (Methanol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	200 ppm (Methanol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	266 mg/m <sup>3</sup> (Alcool méthylique; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	200 ppm (Alcool méthylique; Belgium; Time-weighted average exposure limit 8 h)

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methanol (67-56-1)		
Belgium	Short time value (mg/m <sup>3</sup> )	333 mg/m <sup>3</sup> (Alcool méthylique; Belgium; Short time value)
Belgium	Short time value (ppm)	250 ppm (Alcool méthylique; Belgium; Short time value)
France	VLE (mg/m <sup>3</sup> )	1300 mg/m <sup>3</sup> (Methanol; France; Short time value; VL: Valeur non réglementaire indicative)
France	VLE (ppm)	1000 ppm (Methanol; France; Short time value; VL: Valeur non réglementaire indicative)
France	VME (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup> (Methanol; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	200 ppm (Methanol; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200 ppm (Methanol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	250 ppm (Methanol; USA; Short time value; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	133 mg/m <sup>3</sup> (Methanol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	100 ppm (Methanol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	266 mg/m <sup>3</sup> Methanol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	200 ppm Methanol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	333 mg/m <sup>3</sup> Methanol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	250 ppm Methanol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)

### 8.2. Exposure controls

Appropriate engineering controls

: Either local exhaust or general room ventilation is usually required.

Personal protective equipment

: Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety glasses.



Hand protection

: Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration.

Eye protection

: Chemical goggles or safety glasses. Safety glasses.

Skin and body protection

: Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.

Respiratory protection

: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Other information

: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Color	: Colorless.
Odor	: characteristic.
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available

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Decomposition temperature	: No data available
Flammability (solid, gas)	: Extremely flammable liquid and vapor
Relative density	: No data available
Solubility	: No data available
Explosive properties	: May form explosive peroxides.
Oxidizing properties	: No data available
Explosion limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Extremely flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Sparks. Heat. Overheating. Open flame.

### 10.5. Incompatible materials

Oxidizing agent.

### 10.6. Hazardous decomposition products

May release flammable gases. May form explosive peroxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin.

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ATE CLP (oral)	93.7650154922 mg/kg body weight
ATE CLP (dermal)	305.4633099832 mg/kg body weight
acrylonitrile, inhibited (107-13-1)	
LD50 oral rat	78 mg/kg (Rat)
LD50 dermal rat	148 mg/kg (Rat)
LD50 dermal rabbit	63 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	0.72 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	333 ppm/4h (Rat)
ATE CLP (oral)	78 mg/kg body weight
ATE CLP (dermal)	63 mg/kg body weight
ATE CLP (gases)	333 ppmV/4h
ATE CLP (vapors)	0.72 mg/l/4h
ATE CLP (dust, mist)	0.72 mg/l/4h
allyl chloride (107-05-1)	
LD50 oral rat	425 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 275-455 mg/kg bodyweight; Rat; OECD 401: Acute Oral Toxicity; Experimental value; 379 - 419 mg/kg bodyweight; Rat)
LD50 dermal rabbit	2066 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 398 mg/kg bodyweight; Rabbit)
LC50 inhalation rat (mg/l)	6.7 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	2100 ppm/4h (Rat)
ATE CLP (oral)	425 mg/kg body weight
ATE CLP (dermal)	1100 mg/kg body weight
ATE CLP (gases)	2100 ppmV/4h
ATE CLP (vapors)	6.7 mg/l/4h
ATE CLP (dust, mist)	1.5 mg/l/4h
carbon disulfide (75-15-0)	
LD50 oral rat	3188 mg/kg (Rat)
ATE CLP (oral)	3188 mg/kg body weight

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<b>chloroacetonitrile (107-14-2)</b>	
LD50 oral rat	220 mg/kg body weight (Rat; Literature study)
LD50 dermal rabbit	84 mg/kg (Rabbit; Literature study)
<b>1,4-dichloro-2-butene, trans- (110-57-6)</b>	
LC50 inhalation rat (mg/l)	0.45 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	86 ppm/4h (Rat)
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	300 mg/kg body weight
ATE CLP (gases)	86 ppmV/4h
ATE CLP (vapors)	0.45 mg/l/4h
ATE CLP (dust, mist)	0.45 mg/l/4h
<b>diethyl ether (60-29-7)</b>	
LD50 oral rat	1215 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 1600 mg/kg bodyweight; Rat)
LD50 dermal rabbit	> 14200 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	99 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	32000 ppm/4h (Rat)
ATE CLP (oral)	1215 mg/kg body weight
ATE CLP (gases)	32000 ppmV/4h
ATE CLP (vapors)	99 mg/l/4h
ATE CLP (dust, mist)	99 mg/l/4h
<b>ethyl methacrylate (97-63-2)</b>	
LD50 oral rat	14800 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	38 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	8300 ppm/4h (Rat)
ATE CLP (oral)	14800 mg/kg body weight
ATE CLP (gases)	8300 ppmV/4h
ATE CLP (vapors)	38 mg/l/4h
ATE CLP (dust, mist)	38 mg/l/4h
<b>hexachloroethane (67-72-1)</b>	
LD50 oral rat	4460 mg/kg (Rat)
LD50 dermal rabbit	32000 mg/kg (Rabbit)
ATE CLP (oral)	4460 mg/kg body weight
ATE CLP (dermal)	32000 mg/kg body weight
<b>methacrylonitrile (126-98-7)</b>	
LD50 oral rat	64 - 73 mg/kg (Rat)
LD50 dermal rabbit	280 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	0.66 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	328 ppm/4h (Rat)
ATE CLP (oral)	64 mg/kg body weight
ATE CLP (dermal)	280 mg/kg body weight
ATE CLP (gases)	328 ppmV/4h
ATE CLP (vapors)	0.66 mg/l/4h
ATE CLP (dust, mist)	0.66 mg/l/4h
<b>methylacrylate, inhibited (96-33-3)</b>	
LD50 oral rat	277 mg/kg (Rat)
LD50 dermal rabbit	1243 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	5 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	1350 ppm/4h (Rat)
ATE CLP (oral)	277 mg/kg body weight
ATE CLP (dermal)	1243 mg/kg body weight
ATE CLP (gases)	1350 ppmV/4h
ATE CLP (vapors)	5 mg/l/4h
ATE CLP (dust, mist)	5 mg/l/4h
<b>tert-Butyl Methyl Ether (MTBE) (1634-04-4)</b>	
LD50 oral rat	4000 mg/kg (Rat)
LD50 dermal rat	> 6800 mg/kg (Rat)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit)

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<b>tert-Butyl Methyl Ether (MTBE) (1634-04-4)</b>	
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	23576 ppm/4h (Rat)
ATE CLP (oral)	4000 mg/kg body weight
ATE CLP (gases)	23576 ppmV/4h
ATE CLP (vapors)	85 mg/l/4h
ATE CLP (dust, mist)	85 mg/l/4h
<b>methymethacrylate (80-62-6)</b>	
LD50 oral rat	> 6000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 7900 mg/kg bodyweight; Rat; Equivalent or similar to OECD 401; Weight of evidence; 8400 mg/kg bodyweight; Rat; Weight of evidence)
LD50 dermal rabbit	> 7550 mg/kg (Rabbit; Literature study; Equivalent or similar to OECD 402; >5000 mg/kg bodyweight; Rabbit; Experimental value)
LC50 inhalation rat (mg/l)	27.5 mg/l/4h (Rat; Literature study)
ATE CLP (vapors)	27.5 mg/l/4h
ATE CLP (dust, mist)	27.5 mg/l/4h
<b>nitrobenzene (98-95-3)</b>	
LD50 oral rat	640 mg/kg (Rat; Experimental value; 588 mg/kg bodyweight; Rat)
LD50 dermal rabbit	760 mg/kg body weight (Rabbit; Experimental value)
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	760 mg/kg body weight
ATE CLP (gases)	700 ppmV/4h
ATE CLP (vapors)	3 mg/l/4h
ATE CLP (dust, mist)	0.5 mg/l/4h
<b>2-nitropropane (79-46-9)</b>	
LD50 oral rat	725 mg/kg body weight (Rat; Experimental value)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Experimental value)
ATE CLP (oral)	725 mg/kg body weight
ATE CLP (gases)	4500 ppmV/4h
ATE CLP (vapors)	11 mg/l/4h
ATE CLP (dust, mist)	1.5 mg/l/4h
<b>propionitrile (107-12-0)</b>	
LD50 oral rat	39 mg/kg (Rat)
LD50 dermal rabbit	164 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	1.6 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	730 ppm/4h (Rat)
ATE CLP (oral)	39 mg/kg body weight
ATE CLP (dermal)	164 mg/kg body weight
ATE CLP (gases)	730 ppmV/4h
ATE CLP (vapors)	1.6 mg/l/4h
ATE CLP (dust, mist)	1.6 mg/l/4h
<b>tetrahydrofuran (109-99-9)</b>	
LD50 oral rat	2.3 - 3.6 (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 1650 mg/kg bodyweight; Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rat	> 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
LC50 inhalation rat (mg/l)	54 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	18200 ppm/4h (Rat; Literature study)
ATE CLP (oral)	2.3 mg/kg body weight
ATE CLP (gases)	18200 ppmV/4h
ATE CLP (vapors)	54 mg/l/4h
ATE CLP (dust, mist)	54 mg/l/4h
<b>methanol (67-56-1)</b>	
LD50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of evidence)
LD50 dermal rabbit	15800 mg/kg (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	64000 ppm/4h (Rat; Literature study)
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	300 mg/kg body weight
ATE CLP (gases)	700 ppmV/4h

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<b>methanol (67-56-1)</b>	
ATE CLP (vapors)	3 mg/l/4h
ATE CLP (dust, mist)	0.5 mg/l/4h
Skin corrosion/irritation	: Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: May cause cancer. May cause cancer
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity – single exposure	: Causes damage to organs.
Specific target organ toxicity – repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Toxic if swallowed. Toxic in contact with skin.

## SECTION 12: Ecological information

### 12.1. Toxicity

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

<b>acrylonitrile, inhibited (107-13-1)</b>	
EC50 Daphnia 1	7.55 mg/l (EC50; 48 h)
LC50 fish 2	25 mg/l (LC50; 96 h; Brachydanio rerio)
<b>allyl chloride (107-05-1)</b>	
LC50 fish 2	0.32 mg/l (LC50; 96 h; Pimephales promelas; Static system)
EC50 Daphnia 2	0.25 - 0.4 mg/l (LC50; 96 h; Daphnia magna; Static system)
<b>carbon disulfide (75-15-0)</b>	
LC50 fish 2	4 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Poecilia reticulata)
EC50 Daphnia 2	2.1 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)
Threshold limit algae 1	21 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 96 h; Chlorella sp.)
<b>chloroacetonitrile (107-14-2)</b>	
LC50 fish 1	1.35 mg/l (LC50; 96 h)
<b>diethyl ether (60-29-7)</b>	
LC50 fish 2	2560 mg/l (LC50; 96 h; Pimephales promelas)
EC50 Daphnia 2	1380 mg/l (EC50; 48 h)
<b>hexachloroethane (67-72-1)</b>	
EC50 Daphnia 1	1.4 mg/l (EC50)
LC50 fish 2	0.84 mg/l (LC50; 96 h)
Threshold limit algae 1	7.75 mg/l (EC50; 96 h)
<b>methacrylonitrile (126-98-7)</b>	
LC50 fish 1	100 - 1000 mg/l (LC50; 96 h)
<b>methylacrylate, inhibited (96-33-3)</b>	
LC50 fish 1	4.9 mg/l (LC50; 72 h; Carassius auratus)
EC50 Daphnia 1	2.2 mg/l (EC50; 48 h)
<b>tert-Butyl Methyl Ether (MTBE) (1634-04-4)</b>	
LC50 fish 1	672 - 706 mg/l (LC50; 96 h; Pimephales promelas)
EC50 Daphnia 1	651 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)
<b>methylmethacrylate (80-62-6)</b>	
EC50 Daphnia 1	69 mg/l (EC50; EPA OTS 797.1300; 48 h; Daphnia magna; Flow-through system; Fresh water; Experimental value)
LC50 fish 2	191 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Static system; Fresh water; Experimental value)

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<b>nitrobenzene (98-95-3)</b>	
LC50 fish 1	4.3 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 48 h; Oryzias latipes)
<b>2-nitropropane (79-46-9)</b>	
EC50 Daphnia 2	19 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Flow-through system; Fresh water; Experimental value)
Threshold limit algae 2	> 887 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)
<b>pentachloroethane (76-01-7)</b>	
LC50 fish 1	7 mg/l (LC50; 96 h; Lepomis macrochirus)
EC50 other aquatic organisms 1	134 mg/l (96 h; Selenastrum capricornutum; Cell numbers)
<b>propionitrile (107-12-0)</b>	
LC50 fish 1	1520 mg/l (LC50; 96 h; Pimephales promelas)
<b>tetrahydrofuran (109-99-9)</b>	
LC50 fish 1	2160 mg/l (LC50; Equivalent or similar to OECD 203; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value)
Threshold limit algae 2	3700 mg/l (EC0; Other; 8 days; Scenedesmus quadricauda; Static system; Fresh water; Experimental value)
<b>methanol (67-56-1)</b>	
LC50 fish 1	15400 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)
EC50 Daphnia 1	> 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
LC50 fish 2	10800 mg/l (LC50; 96 h; Salmo gairdneri)

### 12.2. Persistence and degradability

<b>EPA 524 Rev 4 Additions Mix</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.
<b>acrylonitrile, inhibited (107-13-1)</b>	
Persistence and degradability	Inherently biodegradable. Not readily biodegradable in water. Biodegradable in water. Biodegradable in the soil.
Biochemical oxygen demand (BOD)	0.72 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.39 g O <sub>2</sub> /g substance
ThOD	3.17 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.22
<b>allyl chloride (107-05-1)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0.23 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	0.86 g O <sub>2</sub> /g substance
ThOD	1.7 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.14 (5 days; Calculated value)
<b>carbon disulfide (75-15-0)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradability in soil: no data available.
<b>diethyl ether (60-29-7)</b>	
Persistence and degradability	Not readily biodegradable in water. No (test)data on mobility of the substance available. Reacts with air.
Biochemical oxygen demand (BOD)	0.03 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	0.026 g O <sub>2</sub> /g substance (KMnO <sub>4</sub> )
ThOD	2.6 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.012
<b>ethyl methacrylate (97-63-2)</b>	
Persistence and degradability	Biodegradable in water.
<b>hexachloroethane (67-72-1)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>methacrylonitrile (126-98-7)</b>	
Persistence and degradability	Biodegradable in the soil.
<b>methylacrylate, inhibited (96-33-3)</b>	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.875 g O <sub>2</sub> /g substance



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<b>methacrylate, inhibited (96-33-3)</b>	
Chemical oxygen demand (COD)	1.35 g O <sub>2</sub> /g substance
ThOD	1.67 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.648
<b>tert-Butyl Methyl Ether (MTBE) (1634-04-4)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>methymethacrylate (80-62-6)</b>	
Persistence and degradability	Readily biodegradable in water. No (test)data on mobility of the substance available. Photolysis in the air.
Biochemical oxygen demand (BOD)	0.14 g O <sub>2</sub> /g substance
ThOD	1.9 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.073
<b>nitrobenzene (98-95-3)</b>	
Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	0 g O <sub>2</sub> /g substance
ThOD	1.95 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0
<b>2-nitropropane (79-46-9)</b>	
Persistence and degradability	Not readily biodegradable in water. No significant hydrolysis. Low potential for adsorption in soil.
Chemical oxygen demand (COD)	4.098 g O <sub>2</sub> /g substance
<b>pentachloroethane (76-01-7)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>propionitrile (107-12-0)</b>	
Persistence and degradability	Biodegradability in water: no data available.
<b>tetrahydrofuran (109-99-9)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.
Chemical oxygen demand (COD)	1.855 g O <sub>2</sub> /g substance
ThOD	2.44 g O <sub>2</sub> /g substance
<b>methanol (67-56-1)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.42 g O <sub>2</sub> /g substance
ThOD	1.5 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.8 (Literature study)
<b>12.3. Bioaccumulative potential</b>	
<b>EPA 524 Rev 4 Additions Mix</b>	
Bioaccumulative potential	Not established.
<b>acrylonitrile, inhibited (107-13-1)</b>	
BCF fish 1	48 (BCF; 672 h; Lepomis macrochirus)
Log Pow	-0.9 - 0.3 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>allyl chloride (107-05-1)</b>	
BCF fish 1	< 5.6 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 42 days; Cyprinus carpio)
Log Pow	2.1 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>carbon disulfide (75-15-0)</b>	
BCF fish 1	4.3 - 8 (BCF)
BCF fish 2	< 60 (BCF)
Log Pow	1.94 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>chloroacetonitrile (107-14-2)</b>	
Log Pow	0.2 - 1.1
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

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<b>1,4-dichloro-2-butene, trans- (110-57-6)</b>	
Log Pow	2.11 - 2.6 (QSAR)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>diethyl ether (60-29-7)</b>	
BCF fish 1	0.9 - 9.1 (BCF)
Log Pow	0.82 - 0.89 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>ethyl methacrylate (97-63-2)</b>	
BCF fish 1	5 - 18 (BCF)
Log Pow	1.94
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>hexachloroethane (67-72-1)</b>	
BCF fish 1	1200 (BCF)
BCF fish 2	756 mg/l (BCF; 768 h)
Log Pow	3.34 - 4.62
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
<b>methacrylonitrile (126-98-7)</b>	
Bioaccumulative potential	Not bioaccumulative.
<b>methylacrylate, inhibited (96-33-3)</b>	
Log Pow	0.36 - 0.8
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>tert-Butyl Methyl Ether (MTBE) (1634-04-4)</b>	
BCF fish 1	1.5 (BCF; 672 h)
Log Pow	1.06 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>methylmethacrylate (80-62-6)</b>	
BCF fish 1	2.97 - 3.5 (BCF)
Log Pow	1.32 - 1.38 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>nitrobenzene (98-95-3)</b>	
BCF fish 1	15 (BCF; 672 h)
BCF fish 2	1.6 - 7.7 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 42 days; Cyprinus carpio; Flow-through system; Fresh water; Experimental value)
BCF other aquatic organisms 1	24 (BCF)
Log Pow	1.85 (Calculated; 1.86; Experimental value; EU Method A.8: Partition Coefficient)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>2-nitropropane (79-46-9)</b>	
BCF fish 1	8.4 (BCF; 6 weeks; Cyprinus carpio)
Log Pow	1.35 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>pentachloroethane (76-01-7)</b>	
BCF fish 1	60 - 68 (BCF; 672 h)
BCF fish 2	67 (BCF; 336 h)
Log Pow	2.89 - 3.67 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>propionitrile (107-12-0)</b>	
Log Pow	0.16
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>tetrahydrofuran (109-99-9)</b>	
Log Pow	0.45 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>methanol (67-56-1)</b>	
BCF fish 1	< 10 (BCF; 72 h; Leuciscus idus)
Log Pow	-0.77 (Experimental value; Other)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

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### 12.4. Mobility in soil

acrylonitrile, inhibited (107-13-1)	
Surface tension	0.027 N/m (20 °C)
allyl chloride (107-05-1)	
Surface tension	0.023 N/m (20 °C)
Log Koc	log Koc, SRC PCKOCWIN v2.0; 1.67; Calculated value
carbon disulfide (75-15-0)	
Surface tension	0.032 N/m (20 °C)
1,4-dichloro-2-butene, trans- (110-57-6)	
Surface tension	0.024 N/m (20 °C)
Log Koc	log Koc, 2.33; Experimental value; Other isomer
diethyl ether (60-29-7)	
Surface tension	0.017 N/m (20 °C)
methacrylonitrile (126-98-7)	
Surface tension	0.024 N/m (20 °C)
methacrylate, inhibited (96-33-3)	
Surface tension	0.024 N/m (20 °C)
tert-Butyl Methyl Ether (MTBE) (1634-04-4)	
Surface tension	0.02 N/m (20 °C)
methylmethacrylate (80-62-6)	
Surface tension	0.028 N/m (20 °C)
nitrobenzene (98-95-3)	
Surface tension	0.0439 N/m
Log Koc	Koc, Other; 118; Calculated value; log Koc; Other; 2.07; Calculated value
2-nitropropane (79-46-9)	
Surface tension	0.03 N/m (20 °C)
propionitrile (107-12-0)	
Surface tension	0.027 N/m (25 °C)
tetrahydrofuran (109-99-9)	
Surface tension	0.028 N/m
Log Koc	log Koc, 1.26 - 1.37; Experimental value
methanol (67-56-1)	
Surface tension	0.023 N/m (20 °C)
Log Koc	Koc, PCKOCWIN v1.66; 1; Calculated value

### 12.5. Results of PBT and vPvB assessment

Component	
nitrobenzene (98-95-3)	This substance/mixture meets the PBT criteria of REACH, annex XIII This substance/mixture does not meet the vPvB criteria of REACH, annex XIII

### 12.6. Other adverse effects

Additional information : Avoid release to the environment

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Additional information : Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion.  
Ecology - waste materials : Avoid release to the environment. Hazardous waste due to toxicity.

## SECTION 14: Transport information

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

### 14.1. UN number

UN-No. (ADR) : 1992  
UN-No. (IATA) : 1992  
UN-No. (IMDG) : 1992  
UN-No. (ADN) : 1992

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### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: FLAMMABLE LIQUID, TOXIC, N.O.S.
Proper Shipping Name (IATA)	: Flammable liquid, toxic, n.o.s.
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, TOXIC, N.O.S.
Proper Shipping Name (ADN)	: FLAMMABLE LIQUID, TOXIC, N.O.S.
Transport document description (ADR)	: UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S., 3 (6.1), I, (C/E)

### 14.3. Packing group

Class (ADR)	: 3
Classification code (ADR)	: FT1
Class (IATA)	: 3
Class (IMDG)	: 3
Class (ADN)	: 3
Classification code (ADN)	: FT1
Subsidiary risks (ADR)	: 6.1
Subsidiary risks (IMDG)	: 6.1
Hazard labels (ADR)	: 3, 6.1



Hazard labels (IATA)	: 3, 6.1
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Hazard labels (IMDG)	: 3, 6.1
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Hazard labels (ADN)	: 3, 6.1
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### 14.4. Packing group

Packing group (ADR)	: I
Packing group (IATA)	: I
Packing group (IMDG)	: I
Packing group (ADN)	: I

### 14.5. Environmental hazards

Other information	: No supplementary information available.
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### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Hazard identification number (Kemler No.)	: 336
Classification code (ADR)	: FT1
Orange plates	:



Special provision (ADR)	: 274
Transport category (ADR)	: 1
Tunnel restriction code (ADR)	: C/E
Limited quantities (ADR)	: 0
Excepted quantities (ADR)	: E0

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### 14.6.2. Transport by sea

Special provision (IMDG)	: 274
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P001
Tank instructions (IMDG)	: T14
Tank special provisions (IMDG)	: TP2, TP13, TP27
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: E
Properties and observations (IMDG)	: Flammable toxic liquid which is not specified by name in this class or, on account of its characteristics, in some other class. Toxic if swallowed, by skin contact or by inhalation.

### 14.6.3. Air transport

CAO packing instructions (IATA)	: 361
CAO max net quantity (IATA)	: 30L
PCA packing instructions (IATA)	: Forbidden
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA max net quantity (IATA)	: Forbidden
PCA Excepted quantities (IATA)	: E0
Special provision (IATA)	: A3
ERG code (IATA)	: 3HP

### 14.6.4. Inland waterway transport

Special provision (ADN)	: 274, 802
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP, EX, TOX, A
Ventilation (ADN)	: VE01, VE02
Number of blue cones/lights (ADN)	: 2
Carriage prohibited (ADN)	: No

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 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 substance on the candidate list in concentration  $\geq 0.1\%$  or with a lower specific limit: Nitrobenzene (EC 202-716-0, CAS 98-95-3)

Contains no REACH Annex XIV substances.

#### 15.1.2. National regulations

##### Germany

Water hazard class (WGK) : 3 - strongly hazardous to water

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

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