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**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)**

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

\* **1.1. Product identifier**

Trade name/designation:

RAVENOL Carb Reiniger Spray

Article No.:

1360305

UFI:

QXW4-MPUH-2SDD-2E4D

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

Use of the substance/mixture:

Technical Spray

\* **1.3. Details of the supplier of the safety data sheet**

**Supplier (manufacturer/importer/only representative/downstream user/distributor):**

**Ravensberger Schmierstoffvertrieb GmbH**

Produktsicherheit  
Jöllenbecker Str. 2  
33824 Werther  
Germany

**Telephone:** +49 5203 9719 0

**Telefax:** +49 5203 9719 40

**E-mail:** kontakt@ravenol.de

**Website:** www.ravenol.de

**E-mail (competent person):** sdb@ravenol.de

\* **1.4. Emergency telephone number**

24 hr. emergency phone number, 24h: +49 700 24 112 112 (Contract ID: RAV) / +1 872 5888271  
(Contract ID: RAV)

**SECTION 2: Hazards identification**

\* **2.1. Classification of the substance or mixture**

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aerosols ( <i>Aerosol 1</i> )	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	On basis of test data.
Aspiration hazard ( <i>Asp. Tox. 1</i> )	H304: May be fatal if swallowed and enters airways.	Calculation method.
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	Calculation method.
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	Calculation method.
Acute toxicity (inhalative) ( <i>Acute Tox. 4</i> )	H332: Harmful if inhaled.	Calculation method.
STOT-single exposure ( <i>STOT SE 3</i> )	H335: May cause respiratory irritation.	Calculation method.
STOT-single exposure ( <i>STOT SE 3</i> )	H336: May cause drowsiness or dizziness.	Calculation method.
Reproductive toxicity ( <i>Repr. 2</i> )	H361: Suspected of damaging fertility or the unborn child.	Calculation method.
STOT-repeated exposure ( <i>STOT RE 2</i> )	H373: May cause damage to organs through prolonged or repeated exposure.	Calculation method.



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\* **2.2. Label elements**

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

**Hazard pictograms:**



**GHS02**  
Flame



**GHS07**  
Exclamation mark



**GHS08**  
Health hazard

**Signal word:** Danger

**Hazard components for labelling:**

acetone; 4-hydroxy-4-methylpentan-2-one; xylene; ethylbenzene

**Hazard statements for physical hazards**

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

**Hazard statements for health hazards**

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.

**Supplemental hazard information:** none

**Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

**Precautionary statements Prevention**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and eye/face protection.

**Precautionary statements Response**

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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/Emergency telephone number if you feel unwell.
P337 + P313	If eye irritation persists: Get medical advice/attention.

**Precautionary statements Storage**

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**Precautionary statements Disposal**

P501	Dispose of contents/container to an appropriate recycling or disposal facility.
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\* **2.3. Other hazards**

**Other adverse effects:**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.



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## SECTION 3: Composition/information on ingredients

### \* 3.2. Mixtures

#### Additional information:

Labelling for contents according to regulation (EC) No. 648/2004 > 30 % aromatic hydrocarbons

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 67-64-1 EC No.: 200-662-2 Index No.: 606-001-00-8 REACH No.: 01-2119471330-49	<b>acetone</b> Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger EUH066	25 - < 50 Vol-%
CAS No.: 123-42-2 EC No.: 204-626-7	<b>4-hydroxy-4-methylpentan-2-one</b> Eye Irrit. 2 (H319), Flam. Liq. 3 (H226), Repr. 2 (H361), STOT SE 3 (H335) Warning <b>Specific concentration limit (SCL)</b> Eye Irrit. 2; H319: C ≥ 10%	25 - < 50 Vol-%
CAS No.: 1330-20-7 EC No.: 215-535-7	<b>xylene</b> Acute Tox. 4 (H312, H332), Aquatic Chronic 3 (H412), Asp. Tox. 1 (H304), Eye Irrit. 2 (H319), Flam. Liq. 3 (H226), STOT RE 2 (H373), STOT SE 3 (H335), Skin Irrit. 2 (H315) Danger	20 - < 25 Vol-%
CAS No.: 124-38-9 EC No.: 204-696-9	<b>carbon dioxide</b> Substance with a community workplace exposure limit.	5 - < 10 Vol-%
CAS No.: 100-41-4 EC No.: 202-849-4 REACH No.: 01-2119486136-34-XXXX	<b>ethylbenzene</b> Acute Tox. 4 (H332), Asp. Tox. 1 (H304), Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT RE 2 (H373), STOT SE 3 (H335), Skin Irrit. 2 (H315) Danger	5 - < 10 Vol-%
CAS No.: 108-88-3 EC No.: 203-625-9 Index No.: 601-021-00-3 REACH No.: 01-2119471310-51	<b>toluene</b> Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), Repr. 2 (H361d***), STOT RE 2 (H373**), STOT SE 3 (H336), Skin Irrit. 2 (H315) Danger	0.1 - < 1 Vol-%

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### \* 4.1. Description of first aid measures

#### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

#### Following inhalation:

Harmful if inhaled. May cause respiratory irritation. Provide fresh air. Consult a doctor immediately in the case of inhaling spray mist and show him packing or label.

#### In case of skin contact:

Causes skin irritation. After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

#### After eye contact:

Causes serious eye irritation. After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### Following ingestion:

Rinse mouth thoroughly with water. Do NOT induce vomiting. Consult a doctor immediately.

#### Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider.

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

The following symptoms may occur: Headache, Dizziness, Nausea, fatigue, skin irritation



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Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.

- \* **4.3. Indication of any immediate medical attention and special treatment needed**  
Treat symptomatically. Call a POISON CENTER.

## SECTION 5: Firefighting measures

- \* **5.1. Extinguishing media**  
**Suitable extinguishing media:**  
Co-ordinate fire-fighting measures to the fire surroundings.  
Carbon dioxide (CO<sub>2</sub>)  
Extinguishing powder  
alcohol resistant foam  
Use water spray jet to protect personnel and to cool endangered containers.  
**Unsuitable extinguishing media:**  
Full water jet
- \* **5.2. Special hazards arising from the substance or mixture**  
Extremely flammable aerosol. Pressurized container: May burst if heated.  
**Hazardous combustion products:**  
Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), aldehydes, carbon black, Gases/vapours, toxic
- \* **5.3. Advice for firefighters**  
In case of fire: Wear self-contained breathing apparatus.
- \* **5.4. Additional information**  
Move undamaged containers from immediate hazard area if it can be done safely. Do not inhale explosion and combustion gases. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

- \* **6.1. Personal precautions, protective equipment and emergency procedures**  
**6.1.1. For non-emergency personnel**  
**Personal precautions:**  
Use personal protection equipment. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**Protective equipment:**  
Personal protection equipment: see section 8  
**Emergency procedures:**  
Remove all sources of ignition. Remove persons to safety. Provide adequate ventilation.  
**6.1.2. For emergency responders**  
**Personal protection equipment:**  
Use appropriate respiratory protection.
- \* **6.2. Environmental precautions**  
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
- 6.3. Methods and material for containment and cleaning up**  
**For containment:**  
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).  
**For cleaning up:**  
Clean contaminated articles and floor according to the environmental legislation.  
**Other information:**  
Treat the recovered material as prescribed in the section on waste disposal.
- 6.4. Reference to other sections**  
Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13



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## SECTION 7: Handling and storage

### \* 7.1. Precautions for safe handling

#### Protective measures

##### Advices on safe handling:

Pressurised container: May burst if heated. Do not pierce or burn, even after use. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. Do not breathe gas/vapour/aerosol.

Wear personal protection equipment (refer to section 8). When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Use appropriate container to avoid environmental contamination.

##### Fire prevent measures:

Do not spray on naked flames or any incandescent material. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from sources of ignition - No smoking.

##### Measures to prevent aerosol and dust generation:

Use only in well-ventilated areas.

##### Environmental precautions:

Shafts and sewers must be protected from entry of the product.

#### Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

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

#### Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Requirements for storage rooms and vessels:

Observe legal regulations and regulations.

#### Hints on storage assembly:

Do not store together with:  
 Oxidizing agent  
 Pyrophoric or self-heating substances  
 Food and feedingstuffs

**Storage class (TRGS 510, Germany):** 2B - Aerosol dispensers and lighters

#### Further information on storage conditions:

Protect against: Frost, UV-radiation/sunlight  
 maximum storage temperature: 50 °C

### 7.3. Specific end use(s)

#### Recommendation:

Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### \* 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
CH from 1 Jan 2022	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,200 mg/m <sup>3</sup> ) ② 1,000 ppm (2,400 mg/m <sup>3</sup> ) ⑤ B; Tox: AW ZNS Auge; Messmeth: NIOSH
MAK (AT)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	② 2,000 ppm (4,800 mg/m <sup>3</sup> ) ⑤ (max. 4x15 min./Schicht)
BE from 1 Jan 2022	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 246 ppm (594 mg/m <sup>3</sup> ) ② 492 ppm (1,187 mg/m <sup>3</sup> )



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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
CZ from 1 Mar 2020	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 331.2 ppm (800 mg/m <sup>3</sup> ) ② 621 ppm (1,500 mg/m <sup>3</sup> )
PL	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 600 mg/m <sup>3</sup> ② 1,800 mg/m <sup>3</sup>
NO	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 125 ppm (295 mg/m <sup>3</sup> ) ⑤ E
IE	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m <sup>3</sup> ) ⑤ IOELV
HTP (FI)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,200 mg/m <sup>3</sup> ) ② 630 ppm (1,500 mg/m <sup>3</sup> )
LT	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m <sup>3</sup> ) ② 1,000 ppm (2,420 mg/m <sup>3</sup> ) ⑤
SE	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 250 ppm (600 mg/m <sup>3</sup> ) ③ 500 ppm (1,200 mg/m <sup>3</sup> )
NPEL (SK) from 10 Feb 2018	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m <sup>3</sup> )
DK from 28 Jun 2022	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 250 ppm (600 mg/m <sup>3</sup> ) ⑤ E
BG	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 600 mg/m <sup>3</sup> ② 1,400 mg/m <sup>3</sup>
HR from 12 Oct 2018	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m <sup>3</sup> )
RO	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m <sup>3</sup> )
EE	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m <sup>3</sup> )
LV	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m <sup>3</sup> )
Alberta (CA)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,200 mg/m <sup>3</sup> ) ② 750 ppm (1,800 mg/m <sup>3</sup> )
ES from 1 May 2021	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m <sup>3</sup> ) ⑤ VLB®, VLI
BC (CA)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 250 ppm ② 500 ppm
IOELV (EU)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m <sup>3</sup> )
JP from 2 Jan 1900	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 200 ppm (475 mg/m <sup>3</sup> )



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MAK (AT)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,200 mg/m <sup>3</sup> )
VRC (FR)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m <sup>3</sup> ) ② 1,000 ppm (2,420 mg/m <sup>3</sup> )
WEL (GB)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m <sup>3</sup> ) ② 1,500 ppm (3,620 mg/m <sup>3</sup> )
CN	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 300 mg/m <sup>3</sup> ② 450 mg/m <sup>3</sup>
SI from 4 Dec 2018	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m <sup>3</sup> ) ② 1,000 ppm (2,420 mg/m <sup>3</sup> ) ⑤ Y, BAT, EU1
TW from 1 Jul 2018	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 200 ppm (475 mg/m <sup>3</sup> )
KR	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,188 mg/m <sup>3</sup> ) ② 750 ppm (1,782 mg/m <sup>3</sup> )
IS	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 250 ppm (600 mg/m <sup>3</sup> )
HU from 7 Feb 2020	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 1,210 mg/m <sup>3</sup> ⑤ i, N
RU	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 200 mg/m <sup>3</sup> ③ 800 mg/m <sup>3</sup>
GR from 1 Oct 2016	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 1,780 mg/m <sup>3</sup> ② 3,560 mg/m <sup>3</sup>
NL from 1 Jan 2023	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m <sup>3</sup> ) ② 1,000 ppm (2,420 mg/m <sup>3</sup> )
TR	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m <sup>3</sup> )
IDLH (US) from 1 Jan 1994	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 2,500 ppm
OSHA (US)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 1,000 ppm (2,400 mg/m <sup>3</sup> )
NIOSH (US)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 250 ppm (590 mg/m <sup>3</sup> )
ACGIH (US) from 1 Jan 2015	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 250 ppm ② 500 ppm
MY from 1 Jan 2000	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,187 mg/m <sup>3</sup> )
Québec (CA) from 1 Dec 2022	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 250 ppm ② 500 ppm



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TRGS 900 (DE)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,200 mg/m <sup>3</sup> ) ② 1,000 ppm (2,400 mg/m <sup>3</sup> ) ⑤ AGS, DFG, EU, Y
BE	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 50 ppm (241 mg/m <sup>3</sup> )
CZ from 1 Mar 2020	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 41.4 ppm (200 mg/m <sup>3</sup> ) ② 62.1 ppm (300 mg/m <sup>3</sup> ) ⑤ I
PL	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 240 mg/m <sup>3</sup>
TRGS 900 (DE)	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 20 ppm (96 mg/m <sup>3</sup> ) ② 40 ppm (192 mg/m <sup>3</sup> ) ⑤ (kann über die Haut aufgenommen werden) DFG, H
MY from 1 Jan 2000	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 50 ppm (238 mg/m <sup>3</sup> )
NO	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 25 ppm (120 mg/m <sup>3</sup> )
IE from 1 Apr 2016	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 50 ppm (240 mg/m <sup>3</sup> )
HTP (FI)	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 50 ppm (240 mg/m <sup>3</sup> ) ② 75 ppm (360 mg/m <sup>3</sup> )
LT	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 25 ppm (120 mg/m <sup>3</sup> ) ② 50 ppm (240 mg/m <sup>3</sup> ) ⑤
SE	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 25 ppm (120 mg/m <sup>3</sup> ) ③ 50 ppm (240 mg/m <sup>3</sup> )
DK	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 50 ppm (240 mg/m <sup>3</sup> ) ② 100 ppm (480 mg/m <sup>3</sup> )
HR	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 50 ppm (241 mg/m <sup>3</sup> ) ② 75 ppm (362 mg/m <sup>3</sup> )
RO	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 32 ppm (150 mg/m <sup>3</sup> ) ② 53 ppm (250 mg/m <sup>3</sup> )
EE	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 25 ppm (120 mg/m <sup>3</sup> ) ② 50 ppm (240 mg/m <sup>3</sup> )
Alberta (CA)	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 50 ppm (238 mg/m <sup>3</sup> ) ⑤ 3
ES	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 50 ppm (241 mg/m <sup>3</sup> )
BC (CA)	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 50 ppm
VLA (FR)	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 50 ppm (240 mg/m <sup>3</sup> )



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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 50 ppm (241 mg/m <sup>3</sup> ) ② 75 ppm (362 mg/m <sup>3</sup> )
SI from 4 Dec 2018	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 20 ppm (96 mg/m <sup>3</sup> ) ② 40 ppm (192 mg/m <sup>3</sup> ) ⑤ (računati je treba z možnostjo prodiranja skozi kožo) K
TW	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 50 ppm (238 mg/m <sup>3</sup> )
KR	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 50 ppm (240 mg/m <sup>3</sup> )
IS	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 50 ppm (240 mg/m <sup>3</sup> )
CN from 1 Jan 2007	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 240 mg/m <sup>3</sup>
MAK (AT)	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 50 ppm (240 mg/m <sup>3</sup> ) ⑤ (kann über die Haut aufgenommen werden) H
GR from 1 Oct 2016	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 50 ppm (240 mg/m <sup>3</sup> ) ② 75 ppm (360 mg/m <sup>3</sup> )
IDLH (US) from 1 Jan 1994	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 1,800 ppm [10% LEL]
RU	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	③ 100 mg/m <sup>3</sup>
OSHA (US)	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 50 ppm (240 mg/m <sup>3</sup> )
NIOSH (US)	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 50 ppm (240 mg/m <sup>3</sup> )
ACGIH (US)	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 50 ppm (238 mg/m <sup>3</sup> )
Québec (CA)	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 50 ppm (238 mg/m <sup>3</sup> )
CH from 1 Jan 2022	<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	① 20 ppm (96 mg/m <sup>3</sup> ) ② 40 ppm (192 mg/m <sup>3</sup> ) ⑤ (kann über die Haut aufgenommen werden) H; Tox: OAW Auge; Messmeth: NIOSH
BE	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m <sup>3</sup> ) ② 100 ppm (442 mg/m <sup>3</sup> ) ⑤ (peut être absorbé par la peau) D
CZ from 1 Mar 2020	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 45.4 ppm (200 mg/m <sup>3</sup> ) ② 90.8 ppm (400 mg/m <sup>3</sup> ) ⑤ (může pronikat pokožkou) B, D, I
NO	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 25 ppm (108 mg/m <sup>3</sup> ) ⑤ (kan absorberes gjennom huden) HE



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IE	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m <sup>3</sup> ) ② 100 ppm (442 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin) Sk, IOELV
HTP (FI)	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (220 mg/m <sup>3</sup> ) ② 100 ppm (440 mg/m <sup>3</sup> ) ⑤ (voivat imeytyä ihon läpi) iho
NPEL (SK) from 1 May 2018	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m <sup>3</sup> ) ② 100 ppm (442 mg/m <sup>3</sup> ) ⑤ (rátajte so vstrebávaním cez pokožku) K
MAK (AT) from 25 Sept 2018	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	② 100 ppm (442 mg/m <sup>3</sup> ) ⑤ (max. 4x15 min./Schicht)
DK from 28 Jun 2022	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 25 ppm (109 mg/m <sup>3</sup> ) ② 100 ppm (442 mg/m <sup>3</sup> ) ⑤ (kan optages gennem huden) EH
RO from 21 Aug 2018	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m <sup>3</sup> ) ② 100 ppm (442 mg/m <sup>3</sup> ) ⑤ (e de asteptat asimilarea prin piele) P
ES	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m <sup>3</sup> ) ② 100 ppm (442 mg/m <sup>3</sup> ) ⑤ (puede ser absorbido a través dérmica) vía dérmica, VLB®, VLI
EE from 17 Jan 2020	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (200 mg/m <sup>3</sup> ) ② 100 ppm (450 mg/m <sup>3</sup> ) ⑤ (naha kaudu kergesti absorbeeruvad ained) A
LV	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m <sup>3</sup> ) ② 100 ppm (442 mg/m <sup>3</sup> ) ⑤ (var absorbet caur adu) Āda
Alberta (CA)	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 ppm (434 mg/m <sup>3</sup> ) ② 150 ppm (651 mg/m <sup>3</sup> )
BC (CA)	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 ppm ② 150 ppm
IOELV (EU)	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m <sup>3</sup> ) ② 100 ppm (442 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin)
VRC (FR) from 3 May 2021	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m <sup>3</sup> ) ② 100 ppm (442 mg/m <sup>3</sup> ) ⑤ (peut être absorbé par la peau)
ACGIH (US) from 1 Jan 2022	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 20 ppm
OSHA (US)	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 ppm (435 mg/m <sup>3</sup> )
SI	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m <sup>3</sup> ) ② 100 ppm (442 mg/m <sup>3</sup> ) ⑤ (računati je treba z možnostjo prodiranja skozi kožo) K, BAT, EU1



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WEL (GB)	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (220 mg/m <sup>3</sup> ) ② 100 ppm (441 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin)
TW	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 ppm (434 mg/m <sup>3</sup> )
KR	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 ppm (435 mg/m <sup>3</sup> ) ② 150 ppm (655 mg/m <sup>3</sup> )
IS	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 25 ppm (109 mg/m <sup>3</sup> ) ② 100 ppm (442 mg/m <sup>3</sup> ) ⑤ (efnið getur auðveldlega borist inn í líkamann gegnum húð) H
CH from 1 Jan 2022	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 ppm (435 mg/m <sup>3</sup> ) ② 200 ppm (870 mg/m <sup>3</sup> ) ⑤ (kann über die Haut aufgenommen werden) H B; Tox: OAW ZNS Auge Schwindel; Messmeth: INRS NIOSH
CN from 1 Jan 2007	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 mg/m <sup>3</sup> ② 100 mg/m <sup>3</sup>
MAK (AT) from 25 Sept 2018	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m <sup>3</sup> )
RU	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 mg/m <sup>3</sup> ③ 150 mg/m <sup>3</sup>
HU	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 221 mg/m <sup>3</sup> ② 442 mg/m <sup>3</sup> ⑤ (felvehető a bőron keresztül) b, BEM, R
GR from 1 Oct 2016	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 ppm (435 mg/m <sup>3</sup> ) ② 150 ppm (650 mg/m <sup>3</sup> ) ⑤ (αναμένετε απορρόφηση από το δέρμα)
NL from 1 Jan 2023	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 47.5 ppm (210 mg/m <sup>3</sup> ) ② 100 ppm (442 mg/m <sup>3</sup> ) ⑤ (kan door de huid in het lichaam worden opgenomen) H
JP from 1 Jan 2017	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (217 mg/m <sup>3</sup> )
TR	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m <sup>3</sup> ) ② 100 ppm (442 mg/m <sup>3</sup> ) ⑤ (cilt yoluyla alınabilir) Deri
MY from 1 Jan 2000	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 199 ppm (434 mg/m <sup>3</sup> )
SE from 1 Jul 2012	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m <sup>3</sup> ) ② 100 ppm (442 mg/m <sup>3</sup> ) ⑤ (kan absorberas genom huden)
HR	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m <sup>3</sup> ) ② 100 ppm (442 mg/m <sup>3</sup> ) ⑤ (mora se uzeti u obzir prodiranje kroz kožu) koža



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BG	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m <sup>3</sup> ) ② 100 ppm (442 mg/m <sup>3</sup> ) ⑤ (трябва да се очаква абсорбиране през кожата)
PL from 12 Jun 2018	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 mg/m <sup>3</sup> ② 200 mg/m <sup>3</sup> ⑤ (może przenikać przez skórę do organizmu) skóra
IDLH (US) from 1 Jan 1994	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 900 ppm
Québec (CA)	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 ppm (434 mg/m <sup>3</sup> ) ② 150 ppm (651 mg/m <sup>3</sup> )
NIOSH (US)	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 ppm (435 mg/m <sup>3</sup> ) ② 150 ppm (655 mg/m <sup>3</sup> )
TRGS 900 (DE) from 2 Oct 2020	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (220 mg/m <sup>3</sup> ) ② 100 ppm (440 mg/m <sup>3</sup> ) ⑤ (kann über die Haut aufgenommen werden) DFG, EU, H
CH from 1 Jan 2022	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> ) ⑤ Tox: Asphyxie; Messmeth: NIOSH
BE	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,131 mg/m <sup>3</sup> ) ② 30,000 ppm (54,784 mg/m <sup>3</sup> ) ⑤ (dioxyde de) A
MAK (AT)	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> )
CZ from 1 Mar 2020	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 4,923 ppm (9,000 mg/m <sup>3</sup> ) ② 24,615 ppm (45,000 mg/m <sup>3</sup> )
PL	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 9,000 mg/m <sup>3</sup> ② 27,000 mg/m <sup>3</sup>
NO	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> ) ⑤ E
IE from 17 Jan 2020	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> ) ⑤ IOELV
HTP (FI) from 1 Oct 2018	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,100 mg/m <sup>3</sup> ) ⑤ Räjätys- ja louhintatyöt
LT from 15 Oct 2007	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> ) ⑤ Anglies dioksidas dažnai laikomas kaip indikatorius darbo patalpose, kuriose oro teršalai susidaro dėl žmonių buvimo jose.
SE	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> ) ③ 10,000 ppm (180,000 mg/m <sup>3</sup> )
NPEL (SK)	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> )
DK	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> ) ② 10,000 ppm (18,000 mg/m <sup>3</sup> ) ⑤ E



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MAK (AT)	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	② 10,000 ppm (18,000 mg/m <sup>3</sup> ) ⑤ (max. 3x60 min./Schicht, Momentanwert)
VRI (FR) from 3 May 2021	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> )
BG from 6 Jan 2012	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> )
HR	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> )
ES from 1 May 2021	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,150 mg/m <sup>3</sup> ) ⑤ VLI
RO	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> )
EE from 17 Jan 2020	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> ) ⑤ 8
LV	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> )
Alberta (CA)	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> ) ② 30,000 ppm (54,000 mg/m <sup>3</sup> )
BC (CA)	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm ② 15,000 ppm
IOELV (EU)	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> )
JP	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> )
WEL (GB)	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,150 mg/m <sup>3</sup> ) ② 15,000 ppm (27,400 mg/m <sup>3</sup> )
SI from 4 Dec 2018	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> ) ② 10,000 ppm (18,000 mg/m <sup>3</sup> ) ⑤ EU2
TW	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> )
KR	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> ) ② 30,000 ppm (54,000 mg/m <sup>3</sup> )
IS	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> )
HU from 6 Jan 2012	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 9,000 mg/m <sup>3</sup> ⑤ N
CN from 1 Jan 2007	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 9,000 mg/m <sup>3</sup> ② 18,000 mg/m <sup>3</sup>



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MY from 1 Jan 2000	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> )
RU from 22 Aug 2006	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 9,000 mg/m <sup>3</sup> ③ 27,000 mg/m <sup>3</sup>
GR from 1 Oct 2016	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> ) ② 30,000 ppm (54,000 mg/m <sup>3</sup> )
NL from 1 Jan 2023	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> )
TR	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> )
IDLH (US) from 1 Jan 1994	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 40,000 ppm
OSHA (US)	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> )
NIOSH (US)	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> ) ② 30,000 ppm (54,000 mg/m <sup>3</sup> )
ACGIH (US)	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> ) ② 30,000 ppm (54,000 mg/m <sup>3</sup> )
Québec (CA)	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> ) ② 30,000 ppm (54,000 mg/m <sup>3</sup> )
TRGS 900 (DE)	<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,100 mg/m <sup>3</sup> ) ② 10,000 ppm (18,200 mg/m <sup>3</sup> ) ⑤ DFG, EU
CH from 1 Jan 2022	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 50 ppm (220 mg/m <sup>3</sup> ) ② 50 ppm (220 mg/m <sup>3</sup> ) ⑤ (kann über die Haut aufgenommen werden) H OL B; Tox: Niere Leber; Messmeth: NIOSH
BE from 3 Oct 2018	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 20 ppm (87 mg/m <sup>3</sup> ) ② 125 ppm (551 mg/m <sup>3</sup> ) ⑤ (peut être absorbé par la peau) D
CZ from 1 Mar 2020	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 45.4 ppm (200 mg/m <sup>3</sup> ) ② 113.5 ppm (500 mg/m <sup>3</sup> ) ⑤ (může pronikat pokožkou) D, B
PL from 16 Jun 2009	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 200 mg/m <sup>3</sup> ② 400 mg/m <sup>3</sup> ⑤ (może przenikać przez skórę do organizmu) skóra
NO	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 5 ppm (20 mg/m <sup>3</sup> ) ⑤ (kan absorberes gjennom huden, Kreftframkallende) HKE
TRGS 900 (DE) from 1 Jul 2011	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 20 ppm (88 mg/m <sup>3</sup> ) ② 40 ppm (176 mg/m <sup>3</sup> ) ⑤ (kann über die Haut aufgenommen werden) DFG, H, Y, EU



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IE from 4 May 2010	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m <sup>3</sup> ) ② 200 ppm (884 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin) Sk, IOELV
MY from 1 Jan 2000	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (434 mg/m <sup>3</sup> )
HTP (FI)	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 50 ppm (220 mg/m <sup>3</sup> ) ② 200 ppm (880 mg/m <sup>3</sup> ) ⑤ (voivat imeytyä ihon läpi) iho
SE from 1 Jun 2016	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 50 ppm (220 mg/m <sup>3</sup> ) ② 200 ppm (884 mg/m <sup>3</sup> ) ⑤ (kan absorberas genom huden)
NPEL (SK) from 23 Nov 2011	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m <sup>3</sup> ) ② 200 ppm (884 mg/m <sup>3</sup> ) ⑤ (rátajte so vstrebávaním cez pokožku) K
DK	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 50 ppm (217 mg/m <sup>3</sup> ) ② 100 ppm (434 mg/m <sup>3</sup> ) ⑤ (kan optages gennem huden) EHK
LT	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m <sup>3</sup> ) ② 200 ppm (884 mg/m <sup>3</sup> ) ⑤ (tikėtinas įsisavinimas per odą) O
BG	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 435 mg/m <sup>3</sup> ② 545 mg/m <sup>3</sup> ⑤ (трябва да се очаква абсорбиране през кожата)
MAK (AT)	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (440 mg/m <sup>3</sup> ) ⑤ (kann über die Haut aufgenommen werden) H
HR	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m <sup>3</sup> ) ② 200 ppm (884 mg/m <sup>3</sup> ) ⑤ (mora se uzeti u obzir prodiranje kroz kožu) koža
MAK (AT)	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	② 200 ppm (880 mg/m <sup>3</sup> ) ⑤ (max. 8x5 min./Schicht, Momentanwert, kann über die Haut aufgenommen werden) H
VRC (FR) from 1 Jun 2008	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 20 ppm (88.4 mg/m <sup>3</sup> ) ② 100 ppm (442 mg/m <sup>3</sup> ) ⑤ (peut être absorbé par la peau)
ES	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (441 mg/m <sup>3</sup> ) ② 200 ppm (884 mg/m <sup>3</sup> ) ⑤ (puede ser absorbido a través dérmica) vía dérmica, VLB®, VLI
RO from 21 Aug 2018	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m <sup>3</sup> ) ② 200 ppm (884 mg/m <sup>3</sup> ) ⑤ (e de așteptat asimilarea prin piele) P
EE from 17 Jan 2020	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m <sup>3</sup> ) ② 200 ppm (884 mg/m <sup>3</sup> ) ⑤ (naha kaudu kergesti absorbeeruvad ained) A, S
LV	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m <sup>3</sup> ) ② 200 ppm (884 mg/m <sup>3</sup> ) ⑤ (var absorbet caur adu) Āda; letekme uz dzirdi



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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
Alberta (CA)	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (434 mg/m <sup>3</sup> ) ② 125 ppm (543 mg/m <sup>3</sup> )
BC (CA) from 20 Apr 2012	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 20 ppm ⑤ 2B
IOELV (EU)	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m <sup>3</sup> ) ② 200 ppm (884 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin)
WEL (GB)	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (441 mg/m <sup>3</sup> ) ② 125 ppm (552 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin)
SI	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m <sup>3</sup> ) ② 200 ppm (884 mg/m <sup>3</sup> ) ⑤ (računati je treba z možnostjo prodiranja skozi kožo) K, Y, BAT, EKA, EU1
TW	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (434 mg/m <sup>3</sup> )
KR	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (435 mg/m <sup>3</sup> ) ② 125 ppm (545 mg/m <sup>3</sup> )
IS	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 50 ppm (200 mg/m <sup>3</sup> ) ② 200 ppm (884 mg/m <sup>3</sup> ) ⑤ (efnið getur auðveldlega borist inn í líkamann gegnum húð) H
CN from 1 Jan 2007	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 mg/m <sup>3</sup> ② 150 mg/m <sup>3</sup>
HU	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 442 mg/m <sup>3</sup> ② 884 mg/m <sup>3</sup> ⑤ (felvehető a bőrön keresztül) b, i, BEM, T
RU	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 50 mg/m <sup>3</sup> ③ 150 mg/m <sup>3</sup>
GR from 1 Oct 2016	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (435 mg/m <sup>3</sup> ) ② 125 ppm (545 mg/m <sup>3</sup> )
NL from 1 Jan 2023	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 48.6 ppm (215 mg/m <sup>3</sup> ) ② 97.3 ppm (430 mg/m <sup>3</sup> ) ⑤ (kan door de huid in het lichaam worden opgenomen) H
TR	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m <sup>3</sup> ) ② 200 ppm (884 mg/m <sup>3</sup> ) ⑤ (cilt yoluyla alınabilir) Deri
JP from 25 May 2020	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 20 ppm (87 mg/m <sup>3</sup> ) ⑤ (#####)
IDLH (US) from 1 Jan 1994	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 800 ppm [10% LEL]
OSHA (US)	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (435 mg/m <sup>3</sup> )



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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
NIOSH (US)	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (435 mg/m <sup>3</sup> ) ② 125 ppm (545 mg/m <sup>3</sup> )
ACGIH (US) from 1 Jan 2022	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 20 ppm (87 mg/m <sup>3</sup> )
Québec (CA) from 1 Apr 2022	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	① 20 ppm
BE from 1 Dec 2011	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 20 ppm (77 mg/m <sup>3</sup> ) ② 100 ppm (384 mg/m <sup>3</sup> ) ⑤ (peut être absorbé par la peau) D
CZ from 1 Mar 2020	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50.112 ppm (192 mg/m <sup>3</sup> ) ② 100.224 ppm (384 mg/m <sup>3</sup> ) ⑤ (může pronikat pokožkou) B, D, I
PL from 12 Jun 2018	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 100 mg/m <sup>3</sup> ② 200 mg/m <sup>3</sup> ⑤ (może przenikać przez skórę do organizmu) skóra
NO	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 25 ppm (94 mg/m <sup>3</sup> ) ⑤ (kan absorberes gjennom huden) HE
TRGS 900 (DE) from 2 Jul 2021	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (190 mg/m <sup>3</sup> ) ② 100 ppm (380 mg/m <sup>3</sup> ) ⑤ (kann über die Haut aufgenommen werden) DFG, EU, H, Y
IE from 4 May 2010	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (192 mg/m <sup>3</sup> ) ② 100 ppm (384 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin) Sk, IOELV
HTP (FI) from 2 Dec 2009	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 25 ppm (81 mg/m <sup>3</sup> ) ② 100 ppm (380 mg/m <sup>3</sup> ) ⑤ (voivat imeytyä ihon läpi) iho, melu
LT from 15 Oct 2007	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (192 mg/m <sup>3</sup> ) ② 100 ppm (384 mg/m <sup>3</sup> ) ⑤ (tikėtinas įsisavinimas per odą, pavojingas reprodukcijai) R O
NPEL (SK) from 23 Nov 2011	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (192 mg/m <sup>3</sup> ) ② 100 ppm (384 mg/m <sup>3</sup> ) ⑤ (rátajte so vstrebávaním cez pokožku) K
MAK (AT)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	② 100 ppm (380 mg/m <sup>3</sup> ) ⑤ (max. 4x15 min./Schicht, kann über die Haut aufgenommen werden) d, H
BG	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (192 mg/m <sup>3</sup> ) ② 100 ppm (384 mg/m <sup>3</sup> ) ⑤ (трябва да се очаква абсорбиране през кожата)
DK from 28 Jun 2022	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 25 ppm (94 mg/m <sup>3</sup> ) ② 100 ppm (384 mg/m <sup>3</sup> ) ⑤ (kan optages gennem huden) EH
HR	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (192 mg/m <sup>3</sup> ) ② 100 ppm (384 mg/m <sup>3</sup> ) ⑤ (mora se uzeti u obzir prodiranje kroz kožu) koža



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RO from 21 Aug 2018	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (192 mg/m <sup>3</sup> ) ② 100 ppm (384 mg/m <sup>3</sup> ) ⑤ (e de așteptat asimilarea prin piele) P,R2
ES	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (192 mg/m <sup>3</sup> ) ② 100 ppm (384 mg/m <sup>3</sup> ) ⑤ (puede ser absorbido a través dérmica) vía dérmica,VLB®, VLI, r
EE from 17 Jan 2020	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (192 mg/m <sup>3</sup> ) ② 100 ppm (384 mg/m <sup>3</sup> ) ⑤ (naha kaudu kergesti absorbeeruvad ained) A
Alberta (CA) from 1 Dec 2021	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (188 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin) 1
LV	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 14 ppm (50 mg/m <sup>3</sup> ) ② 40 ppm (150 mg/m <sup>3</sup> ) ⑤ (var absorbēt caur ādu) Āda; ietekme uz dzirdi
BC (CA)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 20 ppm ⑤ R
IOELV (EU)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (192 mg/m <sup>3</sup> ) ② 100 ppm (384 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin)
JP	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (188 mg/m <sup>3</sup> ) ⑤ (#####)
VRC (FR) from 9 May 2012	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 20 ppm (76.8 mg/m <sup>3</sup> ) ② 100 ppm (384 mg/m <sup>3</sup> ) ⑤ (peut être absorbé par la peau)
SI	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (192 mg/m <sup>3</sup> ) ② 100 ppm (384 mg/m <sup>3</sup> ) ⑤ (računati je treba z možnostjo prodiranja skozi kožo) K, Y, BAT, EU2
WEL (GB) from 1 Oct 2007	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (191 mg/m <sup>3</sup> ) ② 100 ppm (384 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin)
TW	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 100 ppm (376 mg/m <sup>3</sup> ) ⑤ (#####)
MAK (AT)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (190 mg/m <sup>3</sup> ) ⑤ (kann über die Haut aufgenommen werden) d, H
KR	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (188 mg/m <sup>3</sup> ) ② 150 ppm (560 mg/m <sup>3</sup> )
IS	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 25 ppm (94 mg/m <sup>3</sup> ) ② 50 ppm (188 mg/m <sup>3</sup> ) ⑤ (efnið getur auðveldlega borist inn í líkamann gegnum húð) H
CN from 1 Apr 2020	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 mg/m <sup>3</sup> ② 100 mg/m <sup>3</sup> ⑤ (#####)



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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
RU	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 mg/m <sup>3</sup> ③ 150 mg/m <sup>3</sup>
HU from 25 Jan 2011	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 190 mg/m <sup>3</sup> ② 380 mg/m <sup>3</sup> ⑤ (felvehető a bőrrön keresztül) b, i, BEM, R+T
GR from 1 Oct 2016	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (192 mg/m <sup>3</sup> ) ② 100 ppm (384 mg/m <sup>3</sup> ) ⑤ (αναμένετε απορρόφηση από το δέρμα)
NL from 1 Jan 2023	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 39 ppm (150 mg/m <sup>3</sup> ) ② 100 ppm (384 mg/m <sup>3</sup> )
CH from 1 Jan 2022	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (190 mg/m <sup>3</sup> ) ② 200 ppm (760 mg/m <sup>3</sup> ) ⑤ (kann über die Haut aufgenommen werden) H R2D R2F SSC OL B; Tox: Sehen ZNS; Messmeth: INRS HSE NIOSH DFG
MY from 1 Jan 2000	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (188 mg/m <sup>3</sup> ) ⑤ (resapan melalui kulit hendaklah diambil kira)
TR	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (192 mg/m <sup>3</sup> ) ② 100 ppm (384 mg/m <sup>3</sup> ) ⑤ (cilt yoluyla alınabilir) Deri
SE from 1 Jul 2012	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 50 ppm (192 mg/m <sup>3</sup> ) ② 100 ppm (384 mg/m <sup>3</sup> ) ⑤ (kan absorberas genom huden)
IDLH (US) from 1 Jan 1994	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 500 ppm
OSHA (US)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 200 ppm ③ 300 ppm ⑤ (Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift: 500 ppm 10 minutes)
NIOSH (US)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 100 ppm (375 mg/m <sup>3</sup> ) ② 150 ppm (560 mg/m <sup>3</sup> )
ACGIH (US) from 1 Jan 2021	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 20 ppm
Québec (CA) from 1 Apr 2022	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	① 20 ppm



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**8.1.2. Biological limit values**

Limit value type (country of origin)	Substance name	Limit value	① Parameter ② Test material ③ Time of sampling: ④ Remark
TRGS 903 (DE) from 12 Jun 2023	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	50 mg/L Creatinin	① Aceton ② Urin ③ Expositionsende bzw. Schichtende
BAT (CH) from 1 Jan 2023	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	50 mg/L	① Aceton ② Urin ③ Expositionsende bzw. Schichtende
VLB (ES)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	50 mg/L	① acetona ② orina ③ fin de exposición o fin de turno
OEL-B (JP)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	40 mg/L	① ##### ② # ③ #####
VLBO (RO)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	50 mg/L	① acetona ② urina ③ finalul expunerii, resp. finalul schimbului
BMH (SK)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	80 mg/L	① acetón ② urín ③ koniec expozície, príp. koniec zmeny
ACGIH-BEI (US) from 1 Apr 2016	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	25 mg/L	① acetone ② urine ③ end of exposure or end of shift
BIO (HR)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	20 mg/L	① aceton ② krv ③ kraj izloženosti, odnosno kraj smjene
BIO (HR)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	20 mg/g kreatinin	① aceton ② urin ③ kraj izloženosti, odnosno kraj smjene
BAT (SI) from 4 Dec 2018	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	80 mg/L	① aceton ② urin ③ ob koncu delovne izmene
BIO (HU) from 7 Feb 2020	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	80 mg/L	① Aceton ② vizelet ③ expozíció vége illetve műszak vége
BIO (BG)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	80 mg/L	① ацетон ② урина ③ край на експозицията, респ. край на работната смяна
BAT (CH) from 1 Jan 2022	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	2 g/L	① Methylhippursäuren ② Urin ③ Expositionsende bzw. Schichtende
VLB (ES) from 1 Jan 2014	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	1 g/g creatinina	① Ácidos metilhipúricos ② orina ③ fin de exposición o fin de turno



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Limit value type (country of origin)	Substance name	Limit value	① Parameter ② Test material ③ Time of sampling: ④ Remark
OEL-B (JP)	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	800 mg/L	① total (o-,m-,p-) methylhippuric acid ② # ③ ##### ④ ##
VLBO (RO)	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	3 µg/L	① Acid metilhipuric ② urina ③ finalul expunerii, resp. finalul schimbului
BMH (SK)	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	1.5 mg/L	① Xylén ② krv ③ koniec expozície, príp. koniec zmeny
BMH (SK)	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	2,000 mg/L	① Suma kyselín 2,3,4-methylhipurových ② urín ③ koniec expozície, príp. koniec zmeny
BIO (FI)	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	5 mmol/L	① Virtsan metyylhippuurihappo ② virtsa ③ altistumisen päättyminen, tai vuoron päättyminen
ACGIH-BEI (US)	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	1.5 g/g creatinine	① Methylhippuric acids ② urine ③ end of exposure or end of shift
BAT (SI) from 4 Dec 2018	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	2 g/L	① metilhipurna kislin(vseizomere) ② urin ③ ob koncu delovne izmene
BIO (HU) from 7 Feb 2020	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	1,500 mg/g kreatinin	① Metil-hippursavak ② vizelet ③ expozíció vége illetve műszak vége
TRGS 903 (DE) from 1 Nov 2016	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	2,000 mg/L	① Methylhippur-(Tolur-)säure (alle Isomere) ② Urin ③ Expositionsende bzw. Schichtende
BIO (HR)	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	1.5 mg/L	① ksilen ② krv ③ kraj izloženosti, odnosno kraj smjene
BIO (HR) from 12 Oct 2018	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	1.5 g/g kreatinin	① metilhipurna kiselina ② urin ③ kraj izloženosti, odnosno kraj smjene
BMGV (GB) from 30 Nov 2022	<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	650 mmol/mol creatinine	① methyl hippuric acid ② urine ③ end of exposure or end of shift
TRGS 903 (DE) from 7 Jun 2017	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	250 mg/g Creatinin	① Mandelsäure + Phenylglyoxylsäure ② Urin ③ Expositionsende bzw. Schichtende
BAT (CH) from 1 Jan 2022	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	600 mg/g Creatinin	① Mandelsäure + Phenylglyoxylsäure ② Urin ③ Expositionsende bzw. Schichtende



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VLB (ES)	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	700 mg/g creatinina	① Ácido mandélico + ácido fenilgloxílico ② orina ③ en caso de exposición por largo tiempo, fin de exposición o fin de turno
BIO (HU) from 7 Feb 2020	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	1,500 mg/g kreatinin	① mandulasav ② vizelet ③ a munkahét utolsó műszakának a vége.
BIO (FI) from 1 Oct 2020	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	5.2 mmol/L	① mantelihappo ② virtsa ③ työviikon viimeisen työvuoron päätyttyä
VLBO (RO)	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	1.5 g/g creatinină	① acid mandelic ② urina ③ la expunerea de durata, finalul expunerii, resp. finalul schimbului
BMH (SK)	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	12 mg/L	① 2 - a 4 -Etylfenol ② urín ③ pri dlhodobej expozícií, koniec expozície, príp. koniec zmeny
BMH (SK)	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	1,600 mg/L	① kyselina mandľová + Kyselina 2-fenyl-2-oxooctová ② urín ③ pri dlhodobej expozícií, koniec expozície, príp. koniec zmeny
ACGIH-BEI (US) from 1 Jan 2014	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	0.15 g/g creatinine	① Sum of mandelic acid and phenylglyoxylic acid in urine ② urine ③ end of shift at end of workweek
BIO (HR)	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	1.5 mg/L	① etilbenzen ② krv ③ za vrijeme izloženosti
BIO (HR)	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	1.5 g/g kreatinin	① bademova kiselina ② urin ③ pri dugotrajnom izlaganju, kraj izloženosti, odnosno kraj smjene
BAT (SI) from 4 Dec 2018	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	250 g/g kreatinina	① mandljeva kislina + fenilglioksilna kislina ② urin ③ ob koncu delovne izmene
BIO (BG)	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	2,000 mg/g креатинин	① Бадемова киселина + фенилглиоксилова киселина ② урина ③ край на експозицията, респ. край на работната смяна
OEL-B (JP) from 18 May 2021	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	150 mg/g ## ####	① Mandelic acid ② # ③ #####



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OEL-B (JP) from 18 May 2021	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	200 mg/g ## ####	① Mandelic acid + Phenylglyoxylic acid ② # ③ #####
OEL-B (JP) from 18 May 2021	<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	15 µg/L #### ##	① Ethylbenzene ② # ③ #####
TRGS 903 (DE) from 1 Nov 2012	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	1.5 mg/L	① o-Kresol ② Urin ③ bei Langzeitexposition, Expositionsende bzw. Schichtende
TRGS 903 (DE) from 13 Jan 2021	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	0.6 mg/L	① Toluol ② Blut ③ unmittelbar nach Exposition
BAT (CH) from 1 Jan 2021	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	75 µg/L	① Toluol ② Urin ③ Expositionsende bzw. Schichtende
BAT (CH)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	0.5 mg/L	① o-Kresol ② Urin ③ bei Langzeitexposition, Expositionsende bzw. Schichtende
VLB (ES) from 1 Jan 2018	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	0.6 mg/g creatinina	① (o-Cresol) ② orina ③ fin de exposición o fin de turno
VLB (ES)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	0.05 mg/L	① (tolueno) ② sangre ③ fin de exposición o fin de turno
BIO (HU)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	1 mg/g kreatinin	① o-Krezol ② vizelet ③ expozíció vége illetve műszak vége
BIO (FI)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	500 nmol/L	① toluoli ② veri ③ ennen seuraavaa vuoroa
OEL-B (JP)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	0.6 mg/L	① #### ② ## ③ ##### ## ④ Within 2h prior to
OEL-B (JP)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	0.06 mg/L	① #### ② # ③ ##### ## ④ Within 2h prior to
VLBO (RO)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	2 g/L	① Acid hipuric o-cresol ② urina ③ finalul expunerii, resp. finalul schimbului
VLBO (RO)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	3 mg/L	① Acid hipuric o-cresol ② urina ③ finalul expunerii, resp. finalul schimbului



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BMH (SK)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	600 µg/L	① toulén ② krv ③ koniec expozície, príp. koniec zmeny
BMH (SK)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	1.5 mg/L	① o-krezol ② urín ③ pri dlhodobej expozícií, koniec expozície, príp. koniec zmeny
BMH (SK)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	2,401 mg/L	① Kyselina hippurová ② urín ③ koniec expozície, príp. koniec zmeny
ACGIH-BEI (US)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	0.02 mg/L	① Toluene in blood ② blood ③ Prior to last shift of workweek
ACGIH-BEI (US)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	0.03 mg/L	① Toluene in urine ② urine ③ end of exposure or end of shift
ACGIH-BEI (US)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	0.3 mg/g creatinine	① o-Cresol in urine ② urine ③ end of exposure or end of shift
BAT (CH)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	2 g/g Creatinin	① Hippursäure ② Urin ③ bei Langzeitexposition, Expositionsende bzw. Schichtende
VLB (ES) from 1 Jan 2018	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	0.08 mg/L	① (tolueno) ② sangre ③ fin de exposición o fin de turno
BAT (SI) from 11 May 2021	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	600 µg/L	① toluen ② kri ③ ob koncu delovne izmene
BAT (SI) from 11 May 2021	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	1.5 mg/L kreatinina	① o-krezol ② urin ③ po več zaporednih delavnikih, ob koncu delovne izmene
TRGS 903 (DE) from 28 Mar 2019	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	75 µg/L	① Toluol ② Urin ③ Expositionsende bzw. Schichtende
BIO (BG)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	1.6 mmol креатинин	① хипурова киселина ② урина ③ край на експозицията, респ. край на работната смяна
BIO (HR)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	1 mg/L	① toluol ② krv ③ kraj izloženosti, odnosno kraj smjene
BIO (HR)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	20 ppm krajnje izdahnuti zrak	① toluol ③ za vrijeme izloženosti



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BIO (HR)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	2.5 g/g kreatinin	① hipurna kiselina ② urin ③ kraj izloženosti, odnosno kraj smjene
BIO (HR)	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	1 mg/g kreatinin	① o-krezol ② urin ③ kraj izloženosti, odnosno kraj smjene
BAT (SI) from 11 May 2021	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	75 µg/L	① toluen ② urin ③ ob koncu delovne izmene
BER (LV) from 20 May 2021	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	0.05 mg/L	① tulols ② asinis ③ ekspozīcijas beigās, respektīvi, darba maiņas beigās
BER (LV) from 20 May 2021	<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	1.6 g/g vreatinīns	① hipurskābi ② urīns ③ ekspozīcijas beigās, respektīvi, darba maiņas beigās

### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	1,210 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	200 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	2,420 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, systemic effects
<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	186 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	62 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	62 mg/kg bw/ day	① DNEL Consumer ② Long-term - oral, systemic effects
<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	59.2 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	77 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	192 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9	192 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, local effects

## \* 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.



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### 8.2.2. Personal protection equipment



**Eye/face protection:**

Suitable eye protection: Eye glasses with side protection  
 DIN-/EN-Norms EN 166

**Skin protection:**

Hand protection  
 Suitable material: NBR (Nitrile rubber)  
 Thickness of the glove material:  $\geq 0,45$  mm  
 Breakthrough time: 480 min  
 Breakthrough times and swelling properties of the material must be taken into consideration.  
 The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.  
 For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.  
 Tested protective gloves must be worn: EN ISO 374  
 Suitable protective clothing: Protective clothing

**Respiratory protection:**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
 Suitable respiratory protection apparatus: Combination filtering device  
 Filtering device with filter or ventilator filtering device of type: AX  
 Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

### 8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

## SECTION 9: Physical and chemical properties

\* **9.1. Information on basic physical and chemical properties**

**Appearance**

**Physical state:** Aerosol **Colour:** colourless  
**Odour:** characteristic

**Safety relevant basis data**

Parameter	Value	at °C	① Method ② Remark
pH	<i>not applicable</i>		
Initial boiling point and boiling range	56 °C		
Flash point	-17 °C		
Evaporation rate	<i>No data available</i>		
Upper/lower flammability or explosive limits	0.9 - 14.3 Vol-%		
Vapour pressure	<i>No data available</i>		
Density	862.5 kg/m <sup>3</sup>	20 °C	
Bulk density	<i>not applicable</i>		
Water solubility	practically insoluble		
Partition coefficient: n-octanol/water	<i>not applicable</i>		

\* **9.2. Other information**

The information relates to the active ingredient.

## SECTION 10: Stability and reactivity

\* **10.1. Reactivity**

Extremely flammable aerosol.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.



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\* **10.3. Possibility of hazardous reactions**

Extremely flammable aerosol. Pressurized container: May burst if heated. Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

\* **10.4. Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Take precautionary measures against static discharge.

**10.5. Incompatible materials**

Oxidizing agent  
Pyrophoric or self-heating substances

**10.6. Hazardous decomposition products**

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), carbon black, aldehydes  
Gases/vapours, toxic

**Further information**

Do not mix with other chemicals.

**SECTION 11: Toxicological information**\* **11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2
<b>LD<sub>50</sub> oral:</b> 5,800 mg/kg (Rat) RTECS
<b>LD<sub>50</sub> dermal:</b> >15,800 mg/kg (Rabbit) ICLUID
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> 76 mg/L 4 h (Rat)
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> 76 mg/L 4 h (Rat)
<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7
<b>ATE (inhalation, dust/mist):</b> 1.5 mg/L
<b>LD<sub>50</sub> oral:</b> 4,300 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> 3,200 mg/kg (Rabbit)
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> 21.7 mg/L 4 h (Rat)
<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4
<b>ATE inhalativ Dämpfe:</b> 11 mg/L
<b>LD<sub>50</sub> oral:</b> 3,500 mg/kg (Ratte)
<b>LD<sub>50</sub> dermal:</b> 5,000 mg/kg (Kaninchen)
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> 4,000 ppmV 4 h (Ratte)
<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9
<b>LD<sub>50</sub> oral:</b> 5,580 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> 12,124 mg/kg (Rabbit)
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> 28.1 mg/L 4 h (Rat)

**Acute oral toxicity:**

Based on available data, the classification criteria are not met.

**Acute dermal toxicity:**

Based on available data, the classification criteria are not met.

**Acute inhalation toxicity:**

Harmful if inhaled.

**Skin corrosion/irritation:**

Causes skin irritation.

**Serious eye damage/irritation:**

Causes serious eye irritation.

**Respiratory or skin sensitisation:**

Based on available data, the classification criteria are not met.

**Germ cell mutagenicity:**

Based on available data, the classification criteria are not met.

**Carcinogenicity:**

Based on available data, the classification criteria are not met.

**Reproductive toxicity:**

Suspected of damaging the unborn child.



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**STOT-single exposure:**

May cause respiratory irritation.  
May cause drowsiness or dizziness.

**STOT-repeated exposure:**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard:**

Observe risk of aspiration if vomiting occurs.  
For viscosity data, see section 9.

**Additional information:**

No data available

\* **11.2. Information on other hazards**

**Endocrine disrupting properties:**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Other information:**

No information available.

**SECTION 12: Ecological information**

\* **12.1. Toxicity**

<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2
<b>LC<sub>50</sub></b> : 5,540 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
<b>EC<sub>50</sub></b> : 6,100 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))
<b>ErC<sub>50</sub></b> : 5,000 mg/L 4 d (Algae/water plant, Desmodesmus subspicatus)
<b>ErC<sub>50</sub></b> : >1,000 mg/L 3 d (Pseudokirchneriella subcapitata)
<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7
<b>LC<sub>50</sub></b> : 26.7 mg/L 4 d (fish, Pimephales promelas (fathead minnow))



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<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4
<b>ErC<sub>50</sub></b> : 3.6 mg/L 4 d (Algae/water plant)
<b>LC<sub>50</sub></b> : 6.4 mg/L 2 d (fish, <i>Menidia menidia</i> ) ASTM guideline " Standard Practice for Conducting Acute Toxicity Tests with Fishes, Micro-invertebrates and Amphibians (ASTM, 1980), and Toxic Substance Control Act Guidelines: Final Rules (US. EPA, 1985).
<b>LC<sub>50</sub></b> : 5.8 mg/L 3 d (fish, <i>Menidia menidia</i> ) ASTM guideline " Standard Practice for Conducting Acute Toxicity Tests with Fishes, Micro-invertebrates and Amphibians (ASTM, 1980), and Toxic Substance Control Act Guidelines: Final Rules (US. EPA, 1985).
<b>LC<sub>50</sub></b> : 5.1 mg/L 4 d (fish, <i>Menidia menidia</i> ) ASTM guideline " Standard Practice for Conducting Acute Toxicity Tests with Fishes, Micro-invertebrates and Amphibians (ASTM, 1980), and Toxic Substance Control Act Guidelines: Final Rules (US. EPA, 1985).
<b>LC<sub>50</sub></b> : 3.2 mg/L 2 d (crustaceans, other aquatic crustacea:) U.S. EPA 600/4-91-003
<b>LC<sub>50</sub></b> : 4 mg/L 3 d (crustaceans, <i>Americamysis bahia</i> (previous name: <i>Mysidopsis bahia</i> )) following Toxic Substance Control Act Guidelines: Final Rules (US. EPA, 1985).
<b>LC<sub>50</sub></b> : 2.6 mg/L 4 d (crustaceans, <i>Americamysis bahia</i> (previous name: <i>Mysidopsis bahia</i> )) following Toxic Substance Control Act Guidelines: Final Rules (US. EPA, 1985).
<b>EC<sub>50</sub></b> : 7.2 mg/L 2 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i> )) U.S. EPA. 1985. Toxic substance Control Act Test guidelines: Final Rules 797.1050. Freshwater algae acute toxicity test. Federal register, Volume 50, Number 188, Friday, September 27, 1985.
<b>EC<sub>50</sub></b> : 4.9 mg/L 3 d (Algae/water plant, <i>Skeletonema costatum</i> ) U.S. EPA. 1985. Toxic substance Control Act Test guidelines: Final Rules 797.1060. Freshwater algae acute toxicity test. Federal register, Volume 50, Number 188, Friday, September 27, 1985.
<b>EC<sub>50</sub></b> : 3.6 mg/L 4 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i> )) U.S. EPA. 1985. Toxic substance Control Act Test guidelines: Final Rules 797.1050. Freshwater algae acute toxicity test. Federal register, Volume 50, Number 188, Friday, September 27, 1985.
<b>EC<sub>50</sub></b> : 1.8 - 2.4 mg/L 2 d (crustaceans, <i>Daphnia magna</i> ) According to EPA method F
<b>NOEC</b> : 3.4 mg/L 4 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i> )) U.S. EPA. 1985. Toxic substance Control Act Test guidelines: Final Rules 797.1050. Freshwater algae acute toxicity test. Federal register, Volume 50, Number 188, Friday, September 27, 1985.
<b>NOEC</b> : 3.3 mg/L 4 d (fish, <i>Menidia menidia</i> ) ASTM guideline " Standard Practice for Conducting Acute Toxicity Tests with Fishes, Micro-invertebrates and Amphibians (ASTM, 1980), and Toxic Substance Control Act Guidelines: Final Rules (US. EPA, 1985).
<b>IC<sub>50</sub></b> : 3.3 mg/L 7 d (crustaceans, other aquatic crustacea:) U.S. EPA 600/4-91-003
<b>LOEC</b> : 1.7 mg/L 7 d (crustaceans, <i>Ceriodaphnia dubia</i> ) U.S. EPA 600/4-91-003 EPA Whole Effluent Testing Program method, modified to minimize volatilization
<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9
<b>LC<sub>50</sub></b> : 5.5 - 340 mg/L 4 d (fish)
<b>LC<sub>50</sub></b> : 15.5 - 310 mg/L 2 d (crustaceans)
<b>LC<sub>50</sub></b> : 13 mg/L 4 d (fish, <i>Carassius auratus</i> (goldfish)) IUCLID
<b>EC<sub>50</sub></b> : 6 - 19.6 mg/L 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea))
<b>EC<sub>50</sub></b> : 12.5 mg/L 3 d (Algae/water plant)
<b>ErC<sub>50</sub></b> : >433 mg/L 4 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> ) GESTIS
<b>ErC<sub>50</sub></b> : 12.5 mg/L 3 d (Algae/water plant)

**Aquatic toxicity:**

Toxic to aquatic life with long lasting effects.

**Additional ecotoxicological information:**

Do not allow uncontrolled discharge of product into the environment.

\* **12.2. Persistence and degradability**

<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7
<b>Biodegradation:</b> Yes, rapidly
<b>Remark:</b> OECD 301 A: 98,51% / 28d

**Additional information:**

The product has not been tested.

\* **12.3. Bioaccumulative potential**

<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2
<b>Log K<sub>ow</sub></b> : -0.24



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<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7
<b>Log K<sub>OW</sub></b> : -0.09
<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7
<b>Log K<sub>OW</sub></b> : 3.2
<b>Bioconcentration factor (BCF)</b> : < 25.9 Species: Oncorhynchus mykiss (previous name: Salmo gairdneri)
<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9
<b>Log K<sub>OW</sub></b> : 0.83
<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4
<b>Log K<sub>OW</sub></b> : 3.15
<b>Bioconcentration factor (BCF)</b> : 6.25 Species: other: Tapes semidecussata, Crassostrea virginica and Mytilus edulis
<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9
<b>Log K<sub>OW</sub></b> : 2.73

**Partition coefficient: n-octanol/water:**  
not applicable

**Accumulation / Evaluation:**  
The product has not been tested.

**12.4. Mobility in soil**  
The product has not been tested.

\* **12.5. Results of PBT and vPvB assessment**

<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>carbon dioxide</b> CAS No.: 124-38-9 EC No.: 204-696-9
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>toluene</b> CAS No.: 108-88-3 EC No.: 203-625-9
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

\* **12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

\* **12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

\* **13.1. Waste treatment methods**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

**13.1.1. Product/Packaging disposal**

**Waste codes/waste designations according to EWC/AVV Directive 2008/98/EC (Waste Framework Directive)**

HP 3	Flammable
HP 4	Irritant — skin irritation and eye damage
HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 6	Acute Toxicity
HP 10	Toxic for reproduction

**Waste code packaging**

15 01 04	metallic packaging
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**Waste treatment options**

**Appropriate disposal / Product:**

Dispose of waste according to applicable legislation.

**Appropriate disposal / Package:**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**13.2. Additional information**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

**SECTION 14: Transport information**

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
UN 1950	UN 1950	UN 1950	UN 1950
<b>14.2. UN proper shipping name</b>			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS
<b>14.3. Transport hazard class(es)</b>			
2.1	2.1	2.1	2.1
<b>14.4. Packing group</b>			
		-	
<b>14.5. Environmental hazards</b>			
No	No	No	No data available
<b>14.6. Special precautions for user</b>			
<b>Limited quantity (LQ):</b> 1L <b>Classification code:</b> 5F <b>Tunnel restriction code:</b> (D)	<b>Limited quantity (LQ):</b> 1L <b>Classification code:</b> 5F	<b>Limited quantity (LQ):</b> 1L <b>EmS-No.:</b> F-D; S-U	No data available

**14.7. Maritime transport in bulk according to IMO instruments**

No transport as bulk according to IBC Code.

**SECTION 15: Regulatory information**

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

**15.1.1. EU legislation**

**Other regulations (EU):**

Hazard categories:

- P3b 'Flammable' aerosols Category 1 or 2, not containing flammable gases Category 1 or 2 nor flammable liquids Category 1

Use restriction according to REACH annex XVII, no.: 3, 40, 448, 75

Aerosol Directive (75/324/)

Maximum VOC content of the product in a ready to use condition: 819,375 g/L

**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:**

Volatile organic compounds (VOC) content in percent by weight: 95 weight-%

**15.1.2. National regulations**

**[DE] National regulations**

**Restrictions of occupation**

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.



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### Störfallverordnung (12. BlmschV)

#### for substances contained in the product:

Hazard categories:

- P3b 'Flammable' aerosols Category 1 or 2, not containing flammable gases Category 1 or 2 nor flammable liquids Category 1

### Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

#### Remark:

To follow: 5.2.5

### Water hazard class

#### WGK:

2 - obviously hazardous to water

#### Source:

Self-classification (mixture; calculation rule).

### Technische Regeln für Gefahrstoffe

TRGS 500

TRGS 510

### Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

Berufsgenossenschaftliche Informationen (DGUV-Informationen) 868

Berufsgenossenschaftliche Regeln (DGUV-Regeln) 189, 190, 192, 195



### [SK] National regulations

### Other regulations, restrictions and prohibition regulations

Zákon č. 67/2010 Z.z., o podmienkach uvedenia chemických látok a chemických zmesí na trh a o zmene a

doplnení niektorých zákonov (chemický zákon).

Zákon č. 124/2006 Z. z. o bezpečnosti a ochrane zdravia pri práci a o zmene a doplnení niektorých zákonov.

Zákon NR SR č. 355/2007 Z.z., o ochrane, podpore a rozvoji verejného zdravia a o zmene a doplnení niektorých

zákonov, v znení neskorších predpisov.

Nariadenie vlády SR 471/2011 Z.z., ktorým sa mení nariadenie vlády Slovenskej republiky č. 355/2006 Z. z.

o ochrane zamestnancov pred rizikami súvisiacimi s expozíciou chemickým faktorom pri práci, Príloha č.1.

Zákon č. 79/2015 Z.z. o odpadoch v znení neskorších predpisov.

Vyhláška MV SR č. 96/2004 Z.z., ktorou sa ustanovujú zásady protipožiarnej bezpečnosti pri manipulácii a

skladovaní horľavých kvapalín, ťažkých vykurovacích olejov a rastlinných a živočíšnych tukov a olejov.

Zákon NR SR č. 137/2010 Z.z. o ovzduší v znení neskorších predpisov.

Zákon č. 319/2013 Z.z. o pôsobnosti orgánov štátnej správy pre sprístupňovanie biocídnych výrobkov na trh a ich

používanie a o zmene a doplnení niektorých zákonov (biocídny zákon).

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

### \* 15.3. Additional information

Tactile warning according to EN/ISO 11683.

## SECTION 16: Other information

### \* 16.1. Indication of changes

1.1.	Product identifier
1.3.	Details of the supplier of the safety data sheet
1.4.	Emergency telephone number
2.1.	Classification of the substance or mixture
2.2.	Label elements
2.3.	Other hazards
3.2.	Mixtures
4.1.	Description of first aid measures
4.2.	Most important symptoms and effects, both acute and delayed
4.3.	Indication of any immediate medical attention and special treatment needed
5.1.	Extinguishing media



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5.2.	Special hazards arising from the substance or mixture
5.3.	Advice for firefighters
5.4.	Additional information
6.1.	Personal precautions, protective equipment and emergency procedures
6.2.	Environmental precautions
7.1.	Precautions for safe handling
8.1.	Control parameters
8.2.	Exposure controls
8.3.	Additional information
9.1.	Information on basic physical and chemical properties
9.2.	Other information
10.1.	Reactivity
10.3.	Possibility of hazardous reactions
10.4.	Conditions to avoid
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
11.2.	Information on other hazards
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
12.6.	Endocrine disrupting properties
12.7.	Other adverse effects
13.1.	Waste treatment methods
14.5.	Environmental hazards
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.3.	Additional information
16.1.	Indication of changes
16.2.	Abbreviations and acronyms
16.3.	Key literature references and sources for data
16.4.	Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
16.5.	List of relevant hazard statements and/or precautionary statements from sections 2 to 15

\* **16.2. Abbreviations and acronyms**

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ASTM	American Society for Testing and Materials
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC <sub>50</sub>	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
IBC	Intermediate Bulk Container
IC <sub>50</sub>	Inhibition Concentration 50 %
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
IUCLID	International Uniform Chemical Information Database
KG	body weight
LC <sub>50</sub>	Lethal (fatal) Concentration 50%
LD <sub>50</sub>	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health



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NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OEL	Threshold Limit Value
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
RTECS	Registry of Toxic Effects of Chemical Substances
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds
ZNS	central nervous system

See overview table at [www.euphrac.eu](http://www.euphrac.eu)

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

\* **16.3. Key literature references and sources for data**

EC 1907/2006 - REACH Regulation  
 1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006  
 Regulation (EC) No 1907/2006 (REACH), Annex II  
 European Chemicals Agency (ECHA), C & L classification and labeling inventory  
 European Chemicals Agency (ECHA), ECHA CHEM Registered substances  
 OECD The Global Portal to Information on Chemical Substances (ChemPortal)  
 Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances  
 Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances hazardous to water Rigoletto (catalog substances hazardous to water)

Substance name	Type	source of supply
<b>4-hydroxy-4-methylpentan-2-one</b> CAS No.: 123-42-2 EC No.: 204-626-7	Classification of the substance or mixture	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
<b>xylene</b> CAS No.: 1330-20-7 EC No.: 215-535-7	Classification of the substance or mixture	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
<b>ethylbenzene</b> CAS No.: 100-41-4 EC No.: 202-849-4	LC <sub>50</sub> ; EC <sub>50</sub> ; NOEC; IC <sub>50</sub> ; LOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>

\* **16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]**

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aerosols ( <i>Aerosol 1</i> )	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	On basis of test data.
Aspiration hazard ( <i>Asp. Tox. 1</i> )	H304: May be fatal if swallowed and enters airways.	Calculation method.
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	Calculation method.
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	Calculation method.
Acute toxicity (inhalative) ( <i>Acute Tox. 4</i> )	H332: Harmful if inhaled.	Calculation method.
STOT-single exposure ( <i>STOT SE 3</i> )	H335: May cause respiratory irritation.	Calculation method.
STOT-single exposure ( <i>STOT SE 3</i> )	H336: May cause drowsiness or dizziness.	Calculation method.
Reproductive toxicity ( <i>Repr. 2</i> )	H361: Suspected of damaging fertility or the unborn child.	Calculation method.
STOT-repeated exposure ( <i>STOT RE 2</i> )	H373: May cause damage to organs through prolonged or repeated exposure.	Calculation method.



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\* **16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15**

Hazard statements	
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

**16.6. Training advice**

No data available

**16.7. Additional information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

\* Data changed compared with the previous version.