

Custom Revised 8270 Spike Mix

Safety Data Sheet

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

Date of issue: 23/07/2018

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 : Custom Revised 8270 Spike Mix
Product code : AL0-130400
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
Use of the substance/mixture : Certified reference material for laboratory 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 - 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. 2 | H225 |
| Eye Irrit. 2 | H319 |
| Muta. 1B | H340 |
| Carc. 1A | H350 |
| STOT SE 3 | H336 |
| Aquatic Chronic 2 | H411 |

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

Carc.Cat.1; R45
Muta.Cat.2; R46
F; R11
E; R2
E; R3
Xi; R36
N; R51/53
R19
R44
R66
R67

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

Hazardous ingredients :

acetone

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapor
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H340 - May cause genetic defects
H350 - May cause cancer
H411 - Toxic 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
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+P350 - IF ON SKIN: Gently wash with plenty of soap and water
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
P308+P313 - IF exposed or concerned: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P391 - Collect spillage
P403+P235 - Store in a well-ventilated place. Keep cool

EUH phrases :

EUH019 - May form explosive peroxides
EUH044 - Risk of explosion if heated under confinement
EUH066 - Repeated exposure may cause skin dryness or cracking

No labeling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|-------|--|
| acetone (Component) | (CAS No) 67-64-1 (EC-No.) 200-662-2 (EC index no) 606-001-00-8 | 75.35 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |
| Methylene Chloride (Component) | (CAS No) 75-09-2 (EC-No.) 200-838-9 (EC index no) 602-004-00-3 | 23.88 | Carc. 2, H351 |
| methanol (Component) | (CAS No) 67-56-1 (EC-No.) 200-659-6 (EC index no) 603-001-00-X | 0.12 | Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370 |
| anthracene (Component) substance listed as REACH Candidate | (CAS No) 120-12-7 (EC-No.) 204-371-1 | 0.005 | Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) |
| benzo[a]anthracene (Component) | (CAS No) 56-55-3 (EC-No.) 200-280-6 (EC index no) 601-033-00-9 | 0.005 | Carc. 1B, H350 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) |
| benzo[a]pyrene (Component) substance listed as REACH Candidate (Benzo[def]chrysene) | (CAS No) 50-32-8 (EC-No.) 200-028-5 (EC index no) 601-032-00-3 | 0.005 | Skin Sens. 1, H317 Muta. 1B, H340 Carc. 1B, H350 Repr. 1B, H360FD Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) |
| benzo[ghi]perylene (Component) | (CAS No) 191-24-2 (EC-No.) 205-883-8 | 0.005 | Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|-------|--|
| benzo[k]fluoranthene (Component) | (CAS No) 207-08-9 (EC-No.) 205-916-6 (EC index no) 601-036-00-5 | 0.005 | Carc. 1B, H350 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) |
| caprolactam (Component) substance with a Community workplace exposure limit | (CAS No) 105-60-2 (EC-No.) 203-313-2 (EC index no) 613-069-00-2 | 0.005 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 |
| chrysene (Component) | (CAS No) 218-01-9 (EC-No.) 205-923-4 (EC index no) 601-048-00-0 | 0.005 | Muta. 2, H341 Carc. 1B, H350 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000) |
| dibenz(a,h)anthracene (Component) | (CAS No) 53-70-3 (EC-No.) 200-181-8 (EC index no) 601-041-00-2 | 0.005 | Carc. 1B, H350 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 |
| 1,2-dichlorobenzene (Component) substance with a Community workplace exposure limit | (CAS No) 95-50-1 (EC-No.) 202-425-9 (EC index no) 602-034-00-7 | 0.005 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| 1,4-dichlorobenzene (Component) substance with a Community workplace exposure limit | (CAS No) 106-46-7 (EC-No.) 203-400-5 (EC index no) 602-035-00-2 | 0.005 | Eye Irrit. 2, H319 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| fluoranthene (Component) | (CAS No) 206-44-0 (EC-No.) 205-912-4 | 0.005 | Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) |
| Hexachlorocyclopentadiene (Component) | (CAS No) 77-47-4 (EC-No.) 201-029-3 (EC index no) 602-078-00-7 | 0.005 | Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) |
| isodrin (Component) | (CAS No) 465-73-6 (EC-No.) 207-366-2 (EC index no) 602-050-00-4 | 0.005 | Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 |
| 2-Methylphenol (Component) substance with a Community workplace exposure limit | (CAS No) 95-48-7 (EC-No.) 202-423-8 (EC index no) 604-004-00-9 | 0.005 | Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 |
| naphthalene (Component) substance with a Community workplace exposure limit | (CAS No) 91-20-3 (EC-No.) 202-049-5 (EC index no) 601-052-00-2 | 0.005 | Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| nitrobenzene (Component) substance listed as REACH Candidate substance with a Community workplace exposure limit | (CAS No) 98-95-3 (EC-No.) 202-716-0 (EC index no) 609-003-00-7 | 0.005 | 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 |
| N-Nitrosodimethylamine (Component) | (CAS No) 62-75-9 (EC-No.) 200-549-8 (EC index no) 612-077-00-3 | 0.005 | Acute Tox. 2 (Oral), H300 Acute Tox. 2 (Inhalation), H330 Carc. 1B, H350 STOT RE 1, H372 Aquatic Chronic 2, H411 |
| N-Nirosodi-n-propylamine (Component) | (CAS No) 621-64-7 (EC-No.) 210-698-0 (EC index no) 612-098-00-8 | 0.005 | Acute Tox. 4 (Oral), H302 Carc. 1B, H350 Aquatic Chronic 2, H411 |
| phenol (Component) substance with a Community workplace exposure limit | (CAS No) 108-95-2 (EC-No.) 203-632-7 (EC index no) 604-001-00-2 | 0.005 | Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Muta. 2, H341 STOT RE 2, H373 |
| pyrene (Component) | (CAS No) 129-00-0 (EC-No.) 204-927-3 | 0.005 | Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) |
| pyridine (Component) substance with a Community workplace exposure limit | (CAS No) 110-86-1 (EC-No.) 203-809-9 (EC index no) 613-002-00-7 | 0.005 | Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|---|--------|---|
| 2,3,4,6-tetrachlorophenol (Component) | (CAS No) 58-90-2 (EC-No.) 200-402-8 (EC index no) 604-013-00-8 | 0.005 | Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 |
| 1,2,4-trichlorobenzene (Component) substance with a Community workplace exposure limit | (CAS No) 120-82-1 (EC-No.) 204-428-0 (EC index no) 602-087-00-6 | 0.005 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| 3-Methylphenol (Component) substance with a Community workplace exposure limit | (CAS No) 108-39-4 (EC-No.) 203-577-9 (EC index no) 604-004-00-9 | 0.0025 | Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Aquatic Chronic 2, H411 |
| 4-Methylphenol (Component) substance with a Community workplace exposure limit | (CAS No) 106-44-5 (EC-No.) 203-398-6 (EC index no) 604-004-00-9 | 0.0025 | Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 |

| 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 |
| benzo[a]pyrene (Component) | (CAS No) 50-32-8 (EC-No.) 200-028-5 (EC index no) 601-032-00-3 | (C >= 0.01) Carc. 1B, H350 |
| dibenz(a,h)anthracene (Component) | (CAS No) 53-70-3 (EC-No.) 200-181-8 (EC index no) 601-041-00-2 | (C >= 0.01) Carc. 1B, H350 |
| N-Nitrosodimethylamine (Component) | (CAS No) 62-75-9 (EC-No.) 200-549-8 (EC index no) 612-077-00-3 | (C >= 0.001) Carc. 1B, H350 |
| N-Nirosodi-n-propylamine (Component) | (CAS No) 621-64-7 (EC-No.) 210-698-0 (EC index no) 612-098-00-8 | (C >= 0.001) Carc. 1B, H350 |
| phenol (Component) | (CAS No) 108-95-2 (EC-No.) 203-632-7 (EC index no) 604-001-00-2 | (1 =<C < 3) Eye Irrit. 2, H319 (1 =<C < 3) Skin Irrit. 2, H315 (C >= 3) Skin Corr. 1B, H314 |
| 2,3,4,6-tetrachlorophenol (Component) | (CAS No) 58-90-2 (EC-No.) 200-402-8 (EC index no) 604-013-00-8 | (C >= 5) Skin Irrit. 2, H315 (C >= 5) Eye Irrit. 2, H319 |

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures general | : Never give anything by mouth to an unconscious person. IF 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. Call a POISON CENTER or doctor/physician if you feel unwell. |
| First-aid measures after skin contact | : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Repeated exposure may cause skin dryness or cracking. |
| First-aid measures after eye contact | : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. |

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

| | |
|-----------------------------------|--|
| Symptoms/effects after inhalation | : May cause cancer by inhalation. May cause drowsiness or dizziness. |
|-----------------------------------|--|

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 | : Highly 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. Risk of explosion if heated under confinement. |

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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.

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. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Use only outdoors or in a well-ventilated area. Keep away from sources of ignition - No smoking.
- Hygiene measures : Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.
- 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

| benzo[a]pyrene (50-32-8) | | |
|--------------------------|---|---|
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 550 (Benzo(a)pyreen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| caprolactam (105-60-2) | | |
| EU | IOELV TWA (mg/m ³) | 10 mg/m ³ (e-Caprolactam, (dust and vapour); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| EU | IOELV STEL (mg/m ³) | 40 mg/m ³ (e-Caprolactam, (dust and vapour); EU; Short time value; Indicative occupational exposure limit value) |
| Belgium | Limit value (mg/m ³) | 10 mg/m ³ (Caprolactame (vapeur); Belgium; Time-weighted average exposure limit 8 h; Caprolactame (poussières); 1 mg/m ³ ; Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Limit value (ppm) | 2.2 ppm (Caprolactame (vapeur); Belgium; Time-weighted average exposure limit 8 h) |

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| caprolactam (105-60-2) | | |
|--------------------------------------|---|---|
| Belgium | Short time value (mg/m ³) | 40 mg/m ³ (Caprolactame (vapeur); Belgium; Short time value; Caprolactame (poussières); 3 mg/m ³ ; Belgium; Short time value) |
| Belgium | Short time value (ppm) | 8.7 ppm (Caprolactame (vapeur); Belgium; Short time value) |
| France | VLE (mg/m ³) | 40 mg/m ³ (ε-Caprolactame (poudre et vapeur); France; Short time value; VRI: Valeur réglementaire indicative) |
| France | VME (mg/m ³) | 10 mg/m ³ (ε-Caprolactame (poudre et vapeur); France; Time-weighted average exposure limit 8 h; VRI: Valeur réglementaire indicative) |
| Italy - Portugal - USA ACGIH | ACGIH TWA (mg/m ³) | 5 mg/m ³ (Caprolactam; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor) |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 20 mg/m ³ (1,6-Hexanolactam, damp; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value; 1,6-Hexanolactam, stof; 1 mg/m ³ ; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 8H (ppm) | 5 ppm (1,6-Hexanolactam, damp; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| United Kingdom | WEL TWA (mg/m ³) | 1 mg/m ³ 1,6-Hexanolactam dust only; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005); 1,6-Hexanolactam dust and vapour; 10 mg/m ³ ; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL STEL (mg/m ³) | 3 mg/m ³ 1,6-Hexanolactam dust only; United Kingdom; Short time value; Workplace exposure limit (EH40/2005); 1,6-Hexanolactam dust and vapour; 20 mg/m ³ ; United Kingdom; Short time value; Workplace exposure limit (EH40/2005) |
| 1,2-dichlorobenzene (95-50-1) | | |
| EU | IOELV TWA (mg/m ³) | 122 mg/m ³ (1,2-Dichlorobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| EU | IOELV TWA (ppm) | 20 ppm (1,2-Dichlorobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| EU | IOELV STEL (mg/m ³) | 306 mg/m ³ (1,2-Dichlorobenzene; EU; Short time value; Indicative occupational exposure limit value) |
| EU | IOELV STEL (ppm) | 50 ppm (1,2-Dichlorobenzene; EU; Short time value; Indicative occupational exposure limit value) |
| Belgium | Limit value (mg/m ³) | 122 mg/m ³ (1,2-Dichlorobenzène; Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Limit value (ppm) | 20 ppm (1,2-Dichlorobenzène; Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Short time value (mg/m ³) | 306 mg/m ³ (1,2-Dichlorobenzène; Belgium; Short time value) |
| Belgium | Short time value (ppm) | 50 ppm (1,2-Dichlorobenzène; Belgium; Short time value) |
| France | VLE (mg/m ³) | 306 mg/m ³ (1,2-Dichlorobenzène; France; Short time value; VRC: Valeur réglementaire contraignante) |
| France | VLE (ppm) | 50 ppm (1,2-Dichlorobenzène; France; Short time value; VRC: Valeur réglementaire contraignante) |
| France | VME (mg/m ³) | 122 mg/m ³ (1,2-Dichlorobenzène; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante) |
| France | VME (ppm) | 20 ppm (1,2-Dichlorobenzène; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante) |
| Italy - Portugal - USA ACGIH | ACGIH TWA (ppm) | 25 ppm (o-Dichlorobenzene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| Italy - Portugal - USA ACGIH | ACGIH STEL (ppm) | 50 ppm (o-Dichlorobenzene; USA; Short time value; TLV - Adopted Value) |

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| 1,2-dichlorobenzene (95-50-1) | | |
|---------------------------------------|--|---|
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 122 mg/m ³ (1,2-Dichloorbenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 8H (ppm) | 20 ppm (1,2-Dichloorbenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 15MIN (mg/m ³) | 300 mg/m ³ (1,2-Dichloorbenzeen; Netherlands; Short time value; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 15MIN (ppm) | 49 ppm (1,2-Dichloorbenzeen; Netherlands; Short time value; Public occupational exposure limit value) |
| United Kingdom | WEL TWA (mg/m ³) | 153 mg/m ³ 1,2-dichlorobenzene (ortho-dichlorobenzene); United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL TWA (ppm) | 25 ppm 1,2-dichlorobenzene (ortho-dichlorobenzene); United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL STEL (mg/m ³) | 306 mg/m ³ 1,2-dichlorobenzene (ortho-dichlorobenzene); United Kingdom; Short time value; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL STEL (ppm) | 50 ppm 1,2-dichlorobenzene (ortho-dichlorobenzene); United Kingdom; Short time value; Workplace exposure limit (EH40/2005) |
| 1,4-dichlorobenzene (106-46-7) | | |
| EU | IOELV TWA (mg/m ³) | 122 mg/m ³ (1,4-Dichlorobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| EU | IOELV TWA (ppm) | 20 ppm (1,4-Dichlorobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| EU | IOELV STEL (mg/m ³) | 306 mg/m ³ (1,4-Dichlorobenzene; EU; Short time value; Indicative occupational exposure limit value) |
| EU | IOELV STEL (ppm) | 50 ppm (1,4-Dichlorobenzene; EU; Short time value; Indicative occupational exposure limit value) |
| Belgium | Limit value (mg/m ³) | 61 mg/m ³ (1,4-Dichlorobenzène; Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Limit value (ppm) | 10 ppm (1,4-Dichlorobenzène; Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Short time value (mg/m ³) | 306 mg/m ³ (1,4-Dichlorobenzène; Belgium; Short time value) |
| Belgium | Short time value (ppm) | 50 ppm (1,4-Dichlorobenzène; Belgium; Short time value) |
| France | VLE (mg/m ³) | 306 mg/m ³ (1,4-Dichlorobenzène; France; Short time value; VRI: Valeur réglementaire indicative) |
| France | VLE (ppm) | 50 ppm (1,4-Dichlorobenzène; France; Short time value; VRI: Valeur réglementaire indicative) |
| France | VME (mg/m ³) | 4.5 mg/m ³ (1,4-Dichlorobenzène; France; Time-weighted average exposure limit 8 h; VRI: Valeur réglementaire indicative) |
| France | VME (ppm) | 0.75 ppm (1,4-Dichlorobenzène; France; Time-weighted average exposure limit 8 h; VRI: Valeur réglementaire indicative) |
| Italy - Portugal - USA ACGIH | ACGIH TWA (ppm) | 10 ppm (p-Dichlorobenzene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 450 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 75 ppm |
| USA OSHA | OSHA PEL (STEL) (mg/m ³) | 675 mg/m ³ |
| USA OSHA | OSHA PEL (STEL) (ppm) | 110 ppm |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 150 mg/m ³ (1,4-Dichloorbenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 8H (ppm) | 25 ppm (1,4-Dichloorbenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 15MIN (mg/m ³) | 300 mg/m ³ (1,4-Dichloorbenzeen; Netherlands; Short time value; Public occupational exposure limit value) |

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| 1,4-dichlorobenzene (106-46-7) | | |
|--|---|--|
| Netherlands | Grenswaarde TGG 15MIN (ppm) | 49 ppm (1,4-Dichloorbenzeen; Netherlands; Short time value; Public occupational exposure limit value) |
| United Kingdom | WEL TWA (mg/m ³) | 153 mg/m ³ 1,4-Dichlorobenzene (para-dichlorobenzene); United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL TWA (ppm) | 25 ppm 1,4-Dichlorobenzene (para-dichlorobenzene); United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL STEL (mg/m ³) | 306 mg/m ³ 1,4-Dichlorobenzene (para-dichlorobenzene); United Kingdom; Short time value; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL STEL (ppm) | 50 ppm 1,4-Dichlorobenzene (para-dichlorobenzene); United Kingdom; Short time value; Workplace exposure limit (EH40/2005) |
| Hexachlorocyclopentadiene (77-47-4) | | |
| Belgium | Limit value (mg/m ³) | 0.11 mg/m ³ (Hexachlorocyclopentadiène; Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Limit value (ppm) | 0.01 ppm (Hexachlorocyclopentadiène; Belgium; Time-weighted average exposure limit 8 h) |
| France | VME (mg/m ³) | 0.1 mg/m ³ (Hexachlorocyclopentadiène; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative) |
| France | VME (ppm) | 0.01 ppm (Hexachlorocyclopentadiène; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative) |
| Italy - Portugal - USA ACGIH | ACGIH TWA (ppm) | 0.01 ppm (Hexachlorocyclopentadiene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| 2-Methylphenol (95-48-7) | | |
| EU | IOELV TWA (mg/m ³) | 22 mg/m ³ (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| EU | IOELV TWA (ppm) | 5 ppm (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| Belgium | Limit value (mg/m ³) | 22 mg/m ³ (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Limit value (ppm) | 5 ppm (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h) |
| France | VME (mg/m ³) | 22 mg/m ³ (Crésols (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative) |
| France | VME (ppm) | 5 ppm (Crésols (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative) |
| Italy - Portugal - USA ACGIH | ACGIH TWA (mg/m ³) | 20 mg/m ³ (Cresol, all isomers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor) |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 22 mg/m ³ (Kresol (alle isomeren); Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| 3-Methylphenol (108-39-4) | | |
| EU | IOELV TWA (mg/m ³) | 22 mg/m ³ (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| EU | IOELV TWA (ppm) | 5 ppm (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| Belgium | Limit value (mg/m ³) | 22 mg/m ³ (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Limit value (ppm) | 5 ppm (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h) |
| France | VME (mg/m ³) | 22 mg/m ³ (Crésols (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative) |

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| 3-Methylphenol (108-39-4) | | |
|----------------------------------|--|--|
| France | VME (ppm) | 5 ppm (Crésols (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative) |
| Italy - Portugal - USA ACGIH | ACGIH TWA (mg/m ³) | 20 mg/m ³ (Cresol, all isomers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor) |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 22 mg/m ³ (Kresol (alle isomeren); Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| 4-Methylphenol (106-44-5) | | |
| EU | IOELV TWA (mg/m ³) | 22 mg/m ³ (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| EU | IOELV TWA (ppm) | 5 ppm (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| Belgium | Limit value (mg/m ³) | 22 mg/m ³ (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Limit value (ppm) | 5 ppm (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h) |
| France | VME (mg/m ³) | 22 mg/m ³ (Crésols (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative) |
| France | VME (ppm) | 5 ppm (Crésols (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative) |
| Italy - Portugal - USA ACGIH | ACGIH TWA (mg/m ³) | 20 mg/m ³ (Cresol, all isomers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor) |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 22 mg/m ³ (Kresol (alle isomeren); Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| naphthalene (91-20-3) | | |
| EU | IOELV TWA (mg/m ³) | 50 mg/m ³ (Naphtalene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| EU | IOELV TWA (ppm) | 10 ppm (Naphtalene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| Belgium | Limit value (mg/m ³) | 53 mg/m ³ (Naphtalène; Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Limit value (ppm) | 10 ppm (Naphtalène; Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Short time value (mg/m ³) | 80 mg/m ³ (Naphtalène; Belgium; Short time value) |
| Belgium | Short time value (ppm) | 15 ppm (Naphtalène; Belgium; Short time value) |
| France | VME (mg/m ³) | 50 mg/m ³ (Naphtalène; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative) |
| France | VME (ppm) | 10 ppm (Naphtalène; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative) |
| Italy - Portugal - USA ACGIH | ACGIH TWA (ppm) | 10 ppm (Naphthalene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 50 mg/m ³ (Naftaleen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 8H (ppm) | 9.4 ppm (Naftaleen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 15MIN (mg/m ³) | 80 mg/m ³ (Naftaleen; Netherlands; Short time value; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 15MIN (ppm) | 15 ppm (Naftaleen; Netherlands; Short time value; Public occupational exposure limit value) |
| nitrobenzene (98-95-3) | | |
| EU | IOELV TWA (mg/m ³) | 1 mg/m ³ (Nitrobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |

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| nitrobenzene (98-95-3) | | |
|---|---|--|
| 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 ³) | 1 mg/m ³ (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 ³) | 1 mg/m ³ (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 ³) | 1 mg/m ³ (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 ³) | 1 mg/m ³ 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) |
| N-Nitrosodimethylamine (62-75-9) | | |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 0.0002 mg/m ³ (N-Nitrosodimethylamine; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 8H (ppm) | 0.000065 ppm (N-Nitrosodimethylamine; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| phenol (108-95-2) | | |
| EU | IOELV TWA (mg/m ³) | 8 mg/m ³ (Phenol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| EU | IOELV TWA (ppm) | 2 ppm (Phenol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| EU | IOELV STEL (mg/m ³) | 16 mg/m ³ (Phenol; EU; Short time value; Indicative occupational exposure limit value) |
| EU | IOELV STEL (ppm) | 4 ppm (Phenol; EU; Short time value; Indicative occupational exposure limit value) |
| Belgium | Limit value (mg/m ³) | 8 mg/m ³ (Phénol; Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Limit value (ppm) | 2 ppm (Phénol; Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Short time value (mg/m ³) | 16 mg/m ³ (Phénol; Belgium; Short time value) |
| Belgium | Short time value (ppm) | 4 ppm (Phénol; Belgium; Short time value) |
| France | VLE (mg/m ³) | 15.6 mg/m ³ (Phénol; France; Short time value; VRC: Valeur réglementaire contraignante) |
| France | VLE (ppm) | 4 ppm (Phénol; France; Short time value; VRC: Valeur réglementaire contraignante) |
| France | VME (mg/m ³) | 7.8 mg/m ³ (Phénol; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante) |
| France | VME (ppm) | 2 ppm (Phénol; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante) |
| Italy - Portugal - USA ACGIH | ACGIH TWA (ppm) | 5 ppm (Phenol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 8 mg/m ³ (Fenol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |

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| phenol (108-95-2) | | |
|--|---|---|
| Netherlands | Grenswaarde TGG 8H (ppm) | 2 ppm (Fenol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| United Kingdom | WEL TWA (mg/m ³) | 7.8 mg/m ³ Phenol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL TWA (ppm) | 2 ppm Phenol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL STEL (mg/m ³) | 16 mg/m ³ Phenol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL STEL (ppm) | 4 ppm Phenol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005) |
| pyridine (110-86-1) | | |
| EU | IOELV TWA (mg/m ³) | 15 mg/m ³ (Pyridine; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| EU | IOELV TWA (ppm) | 5 ppm (Pyridine; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| Belgium | Limit value (mg/m ³) | 3.3 mg/m ³ (Pyridine; Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Limit value (ppm) | 1 ppm (Pyridine; Belgium; Time-weighted average exposure limit 8 h) |
| France | VLE (mg/m ³) | 30 mg/m ³ (Pyridine; France; Short time value; VL: Valeur non réglementaire indicative) |
| France | VLE (ppm) | 10 ppm (Pyridine; France; Short time value; VL: Valeur non réglementaire indicative) |
| France | VME (mg/m ³) | 15 mg/m ³ (Pyridine; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative) |
| France | VME (ppm) | 5 ppm (Pyridine; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative) |
| Italy - Portugal - USA ACGIH | ACGIH TWA (ppm) | 1 ppm (Pyridine; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 0.9 mg/m ³ (Pyridine; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 8H (ppm) | 0.27 ppm (Pyridine; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| United Kingdom | WEL TWA (mg/m ³) | 16 mg/m ³ Pyridine; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL TWA (ppm) | 5 ppm Pyridine; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL STEL (mg/m ³) | 33 mg/m ³ Pyridine; United Kingdom; Short time value; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL STEL (ppm) | 10 ppm Pyridine; United Kingdom; Short time value; Workplace exposure limit (EH40/2005) |
| 1,2,4-trichlorobenzene (120-82-1) | | |
| EU | IOELV TWA (mg/m ³) | 15.1 mg/m ³ (1,2,4-Trichlorobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| EU | IOELV TWA (ppm) | 2 ppm (1,2,4-Trichlorobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| EU | IOELV STEL (mg/m ³) | 37.8 mg/m ³ (1,2,4-Trichlorobenzene; EU; Short time value; Indicative occupational exposure limit value) |
| EU | IOELV STEL (ppm) | 5 ppm (1,2,4-Trichlorobenzene; EU; Short time value; Indicative occupational exposure limit value) |
| Belgium | Limit value (mg/m ³) | 15.1 mg/m ³ (1,2,4-Trichlorobenzène; Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Limit value (ppm) | 2 ppm (1,2,4-Trichlorobenzène; Belgium; Time-weighted average exposure limit 8 h) |

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| 1,2,4-trichlorobenzene (120-82-1) | | |
|--|--|--|
| Belgium | Short time value (mg/m ³) | 37.8 mg/m ³ (1,2,4-Trichlorobenzène; Belgium; Short time value) |
| Belgium | Short time value (ppm) | 5 ppm (1,2,4-Trichlorobenzène; Belgium; Short time value) |
| France | VLE (mg/m ³) | 37.8 mg/m ³ (1,2,4-Trichlorobenzène; France; Short time value; VRC: Valeur réglementaire contraignante) |
| France | VLE (ppm) | 5 ppm (1,2,4-Trichlorobenzène; France; Short time value; VRC: Valeur réglementaire contraignante) |
| France | VME (mg/m ³) | 15.1 mg/m ³ (1,2,4-Trichlorobenzène; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante) |
| France | VME (ppm) | 2 ppm (1,2,4-Trichlorobenzène; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante) |
| Italy - Portugal - USA ACGIH | ACGIH Ceiling (ppm) | 5 ppm (1,2,4-Trichlorobenzene; USA; Momentary value; TLV - Adopted Value) |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 7.55 mg/m ³ (1,2,4-Trichlorobenzene; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 8H (ppm) | 1 ppm (1,2,4-Trichlorobenzene; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 15MIN (mg/m ³) | 37.8 mg/m ³ (1,2,4-Trichlorobenzene; Netherlands; Short time value; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 15MIN (ppm) | 5 ppm (1,2,4-Trichlorobenzene; Netherlands; Short time value; Public occupational exposure limit value) |
| United Kingdom | WEL TWA (ppm) | 1 ppm 1,2,4-Trichlorobenzene; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL STEL (ppm) | 5 ppm 1,2,4-Trichlorobenzene; United Kingdom; Short time value; Workplace exposure limit (EH40/2005) |
| Methylene Chloride (75-09-2) | | |
| Belgium | Limit value (mg/m ³) | 177 mg/m ³ (Chlorure de méthylène; Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Limit value (ppm) | 50 ppm (Chlorure de méthylène; Belgium; Time-weighted average exposure limit 8 h) |
| France | VLE (mg/m ³) | 356 mg/m ³ (Dichlorométhane; France; Short time value; VRC: Valeur réglementaire contraignante) |
| France | VLE (ppm) | 100 ppm (Dichlorométhane; France; Short time value; VRC: Valeur réglementaire contraignante) |
| France | VME (mg/m ³) | 178 mg/m ³ (Dichlorométhane; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante) |
| France | VME (ppm) | 50 ppm (Dichlorométhane; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante) |
| Italy - Portugal - USA ACGIH | ACGIH TWA (ppm) | 50 ppm (Dichloromethane (Methylene chloride); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| United Kingdom | WEL TWA (mg/m ³) | 350 mg/m ³ Dichloromethane; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL TWA (ppm) | 100 ppm Dichloromethane; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL STEL (mg/m ³) | 1060 mg/m ³ Dichloromethane; United Kingdom; Short time value; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL STEL (ppm) | 300 ppm Dichloromethane; United Kingdom; Short time value; Workplace exposure limit (EH40/2005) |
| methanol (67-56-1) | | |
| EU | IOELV TWA (mg/m ³) | 260 mg/m ³ (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) |

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| methanol (67-56-1) | | |
|------------------------------|---|---|
| Belgium | Limit value (mg/m ³) | 266 mg/m ³ (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) |
| Belgium | Short time value (mg/m ³) | 333 mg/m ³ (Alcool méthylique; Belgium; Short time value) |
| Belgium | Short time value (ppm) | 250 ppm (Alcool méthylique; Belgium; Short time value) |
| France | VLE (mg/m ³) | 1300 mg/m ³ (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 ³) | 260 mg/m ³ (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 ³) | 133 mg/m ³ (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 ³) | 266 mg/m ³ 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 ³) | 333 mg/m ³ 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) |
| acetone (67-64-1) | | |
| EU | IOELV TWA (mg/m ³) | 1210 mg/m ³ (Acetone; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| EU | IOELV TWA (ppm) | 500 ppm (Acetone; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| Belgium | Limit value (mg/m ³) | 1210 mg/m ³ (Acétone; Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Limit value (ppm) | 500 ppm (Acétone; Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Short time value (mg/m ³) | 2420 mg/m ³ (Acétone; Belgium; Short time value) |
| Belgium | Short time value (ppm) | 1000 ppm (Acétone; Belgium; Short time value) |
| France | VLE (mg/m ³) | 2420 mg/m ³ (Acétone; France; Short time value; VRC: Valeur réglementaire contraignante) |
| France | VLE (ppm) | 1000 ppm (Acétone; France; Short time value; VRC: Valeur réglementaire contraignante) |
| France | VME (mg/m ³) | 1210 mg/m ³ (Acétone; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante) |
| France | VME (ppm) | 500 ppm (Acétone; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante) |
| Italy - Portugal - USA ACGIH | ACGIH TWA (ppm) | 500 ppm (Acetone; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| Italy - Portugal - USA ACGIH | ACGIH STEL (ppm) | 750 ppm (Acetone; USA; Short time value; TLV - Adopted Value) |

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| acetone (67-64-1) | | |
|-------------------|--|--|
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 1210 mg/m ³ (Aceton; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 8H (ppm) | 501 ppm (Aceton; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 15MIN (mg/m ³) | 2420 mg/m ³ (Aceton; Netherlands; Short time value; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 15MIN (ppm) | 1002 ppm (Aceton; Netherlands; Short time value; Public occupational exposure limit value) |
| United Kingdom | WEL TWA (mg/m ³) | 1210 mg/m ³ Acetone; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL TWA (ppm) | 500 ppm Acetone; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL STEL (mg/m ³) | 3620 mg/m ³ Acetone; United Kingdom; Short time value; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL STEL (ppm) | 1500 ppm Acetone; 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 |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Highly flammable liquid and vapor |
| Relative density | : No data available |
| Solubility | : No data available |
| Explosive properties | : May form explosive peroxides. Risk of explosion if heated under confinement. |
| Oxidizing properties | : No data available |
| Explosion limits | : No data available |

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture. Risk of explosion if heated under confinement. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

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. Open flame. Heat. Sparks. Overheating.

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 : Not classified

| anthracene (120-12-7) | |
|------------------------------|---------------------|
| LD50 oral rat | > 16000 mg/kg (Rat) |

| caprolactam (105-60-2) | |
|-------------------------------|--|
| LD50 oral rat | 1210 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 1475 mg/kg bodyweight; Rat; Equivalent or similar to OECD 401; Experimental value; 1876 mg/kg bodyweight; Rat) |
| LD50 dermal rat | > 2000 mg/kg (Rat; Experimental value; Other) |
| LD50 dermal rabbit | 1438 mg/kg (Rabbit) |
| ATE CLP (oral) | 1210 mg/kg body weight |
| ATE CLP (dermal) | 1438 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 |

| 1,2-dichlorobenzene (95-50-1) | |
|--------------------------------------|------------------------|
| LD50 oral rat | 500 mg/kg (Rat) |
| LD50 dermal rabbit | > 10000 mg/kg (Rabbit) |
| LC50 inhalation rat (mg/l) | 9.5 mg/l/4h (Rat) |
| ATE CLP (oral) | 500 mg/kg body weight |
| ATE CLP (vapors) | 9.5 mg/l/4h |
| ATE CLP (dust, mist) | 9.5 mg/l/4h |

| 1,4-dichlorobenzene (106-46-7) | |
|---------------------------------------|-----------------------|
| LD50 dermal rat | > 6000 mg/kg (Rat) |
| LD50 dermal rabbit | > 2000 mg/kg (Rabbit) |
| LC50 inhalation rat (mg/l) | > 5 mg/l/4h (Rat) |

| fluoranthene (206-44-0) | |
|--------------------------------|------------------------|
| LD50 oral rat | 2000 mg/kg (Rat) |
| LD50 dermal rabbit | 3180 mg/kg (Rabbit) |
| ATE CLP (oral) | 2000 mg/kg body weight |
| ATE CLP (dermal) | 3180 mg/kg body weight |

| Hexachlorocyclopentadiene (77-47-4) | |
|--|---|
| LD50 oral rat | 315 mg/kg (Rat; Experimental value; 200 mg/kg bodyweight; Rat; Experimental value; 505 mg/kg bodyweight; Rat; Experimental value; 690 mg/kg bodyweight; Rat; Experimental value; 640 mg/kg bodyweight; Rat) |
| LD50 dermal rat | 2000-3200,Rat; Experimental value |
| LD50 dermal rabbit | 200 - 340 mg/kg (Rabbit; Experimental value; 430 mg/kg bodyweight; Rabbit) |
| LC50 inhalation rat (mg/l) | 0.018 mg/l/4h (Rat; Experimental value; 0,04 mg/l/4h; Rat; Experimental value) |
| ATE CLP (oral) | 315 mg/kg body weight |
| ATE CLP (dermal) | 200 mg/kg body weight |
| ATE CLP (gases) | 100 ppmV/4h |
| ATE CLP (vapors) | 0.018 mg/l/4h |

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| Hexachlorocyclopentadiene (77-47-4) | |
|--|--|
| ATE CLP (dust, mist) | 0.018 mg/l/4h |
| isodrin (465-73-6) | |
| LD50 oral rat | 7 mg/kg (Rat) |
| LD50 dermal rat | 23 mg/kg (Rat) |
| ATE CLP (oral) | 7 mg/kg body weight |
| ATE CLP (dermal) | 23 mg/kg body weight |
| ATE CLP (gases) | 100 ppmV/4h |
| ATE CLP (vapors) | 0.5 mg/l/4h |
| ATE CLP (dust, mist) | 0.05 mg/l/4h |
| 2-Methylphenol (95-48-7) | |
| LD50 oral rat | 121 mg/kg (Rat) |
| LD50 dermal rat | 620 mg/kg (Rat) |
| LD50 dermal rabbit | 890 mg/kg (Rabbit) |
| ATE CLP (oral) | 121 mg/kg body weight |
| ATE CLP (dermal) | 620 mg/kg body weight |
| 3-Methylphenol (108-39-4) | |
| LD50 oral rat | 242 mg/kg (Rat) |
| LD50 dermal rat | 1100 mg/kg (Rat) |
| LD50 dermal rabbit | 2050 mg/kg (Rabbit) |
| ATE CLP (oral) | 242 mg/kg body weight |
| ATE CLP (dermal) | 300 mg/kg body weight |
| 4-Methylphenol (106-44-5) | |
| LD50 oral rat | 207 mg/kg (Rat; Experimental value) |
| LD50 dermal rabbit | 301 mg/kg (Rabbit) |
| ATE CLP (oral) | 207 mg/kg body weight |
| ATE CLP (dermal) | 301 mg/kg body weight |
| naphthalene (91-20-3) | |
| LD50 oral rat | > 1100 mg/kg (Rat) |
| LD50 dermal rat | > 2500 mg/kg (Rat) |
| LD50 dermal rabbit | > 20000 mg/kg (Rabbit) |
| ATE CLP (oral) | 500 mg/kg body weight |
| nitrobenzene (98-95-3) | |
| 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 |
| N-Nitrosodimethylamine (62-75-9) | |
| LD50 oral rat | 37 mg/kg (Rat) |
| LC50 inhalation rat (mg/l) | 0.24 mg/l/4h (Rat) |
| LC50 inhalation rat (ppm) | 78 ppm/4h (Rat) |
| ATE CLP (oral) | 37 mg/kg body weight |
| ATE CLP (gases) | 78 ppmV/4h |
| ATE CLP (vapors) | 0.24 mg/l/4h |
| ATE CLP (dust, mist) | 0.24 mg/l/4h |
| N-Nirosodi-n-propylamine (621-64-7) | |
| LD50 oral rat | 480 mg/kg (Rat) |
| ATE CLP (oral) | 480 mg/kg body weight |
| phenol (108-95-2) | |
| LD50 oral rat | 650 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value) |
| LD50 dermal rat | 660 mg/kg (Rat; Experimental value; Equivalent or similar to OECD 402) |
| LD50 dermal rabbit | 850 - 1400 mg/kg (Rabbit) |
| LC50 inhalation rat (mg/l) | 0.32 mg/l/4h (Rat; Literature study) |
| ATE CLP (oral) | 100 mg/kg body weight |
| ATE CLP (dermal) | 660 mg/kg body weight |

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| | |
|--|---|
| phenol (108-95-2) | |
| ATE CLP (gases) | 700 ppmV/4h |
| ATE CLP (vapors) | 0.32 mg/l/4h |
| ATE CLP (dust, mist) | 0.32 mg/l/4h |
| pyrene (129-00-0) | |
| LD50 oral rat | 2700 mg/kg (Rat) |
| ATE CLP (oral) | 2700 mg/kg body weight |
| pyridine (110-86-1) | |
| LD50 oral rat | > 891 mg/kg (Rat) |
| LD50 dermal rabbit | 1120 mg/kg (Rabbit) |
| ATE CLP (oral) | 500 mg/kg body weight |
| ATE CLP (dermal) | 1120 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 |
| 2,3,4,6-tetrachlorophenol (58-90-2) | |
| LD50 oral rat | 140 mg/kg (Rat) |
| LD50 dermal rat | 485 mg/kg (Rat) |
| ATE CLP (oral) | 140 mg/kg body weight |
| ATE CLP (dermal) | 485 mg/kg body weight |
| 1,2,4-trichlorobenzene (120-82-1) | |
| LD50 oral rat | 756 mg/kg (Rat) |
| LD50 dermal rat | 6139 mg/kg (Rat) |
| LD50 dermal rabbit | > 5000 mg/kg (Rabbit) |
| LC50 inhalation rat (mg/l) | > 4.1 mg/l/4h (Rat) |
| ATE CLP (oral) | 756 mg/kg body weight |
| ATE CLP (dermal) | 6139 mg/kg body weight |
| Methylene Chloride (75-09-2) | |
| LD50 oral rat | > 2000 mg/kg (Rat; Literature study) |
| LD50 dermal rabbit | > 2000 mg/kg (Rabbit; Literature study) |
| methanol (67-56-1) | |
| 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 |
| ATE CLP (vapors) | 3 mg/l/4h |
| ATE CLP (dust, mist) | 0.5 mg/l/4h |
| acetone (67-64-1) | |
| LD50 oral rat | 5800 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value) |
| LD50 dermal rabbit | 20000 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; >7426 mg/kg bodyweight; Rabbit; Weight of evidence) |
| LC50 inhalation rat (mg/l) | 71 mg/l/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value) |
| LC50 inhalation rat (ppm) | 30000 ppm/4h (Rat; Experimental value) |
| ATE CLP (oral) | 5800 mg/kg body weight |
| ATE CLP (dermal) | 20000 mg/kg body weight |
| ATE CLP (gases) | 30000 ppmV/4h |
| ATE CLP (vapors) | 71 mg/l/4h |
| ATE CLP (dust, mist) | 71 mg/l/4h |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Not classified Repeated exposure may cause skin dryness or cracking |
| Serious eye damage/irritation | : Causes serious eye irritation. Based on available data, the classification criteria are not met |
| Respiratory or skin sensitization | : Not classified Based on available data, the classification criteria are not met |

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| | |
|---|--|
| Germ cell mutagenicity | : May cause genetic defects. |
| 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 | : May cause drowsiness or dizziness. |
| Specific target organ toxicity – repeated exposure | : Not classified Based on available data, the classification criteria are not met |
| Aspiration hazard | : Not classified Based on available data, the classification criteria are not met |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |

SECTION 12: Ecological information

12.1. Toxicity

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

| anthracene (120-12-7) | |
|--|--|
| LC50 fish 2 | 0.00127 mg/l (LC50; 96 h) |
| EC50 Daphnia 2 | 0.0012 mg/l (EC50; 24 h) |
| benzo[a]anthracene (56-55-3) | |
| LC50 fish 1 | 0.0018 mg/l (LC50; 65 h) |
| EC50 Daphnia 1 | 0.01 mg/l (EC50; 96 h) |
| benzo[a]pyrene (50-32-8) | |
| LC50 fish 1 | 0.0056 mg/l (LC50; 38 h) |
| EC50 Daphnia 1 | 0.005 mg/l (LC50; 96 h) |
| Threshold limit algae 1 | 0.015 mg/l (EC50; 72 h) |
| benzo(ghi)perylene (191-24-2) | |
| EC50 Daphnia 1 | 0.0002 mg/l (LC50; 14 h) |
| benzo[k]fluoranthene (207-08-9) | |
| EC50 Daphnia 1 | 0.0048 mg/l (LC50; 23 h) |
| caprolactam (105-60-2) | |
| EC50 Daphnia 1 | > 1000 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value) |
| Threshold limit algae 2 | > 1000 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value) |
| chrysene (218-01-9) | |
| EC50 Daphnia 1 | 0.0007 mg/l (LC50; 24 h) |
| Threshold limit algae 1 | 0.001 mg/l (EC0) |
| dibenz(a,h)anthracene (53-70-3) | |
| EC50 Daphnia 1 | 0.0004 mg/l (LC50; 3 h) |
| 1,2-dichlorobenzene (95-50-1) | |
| LC50 fish 1 | 1.58 mg/l (LC50; 96 h) |
| EC50 Daphnia 2 | 0.74 mg/l (EC50; 48 h) |
| 1,4-dichlorobenzene (106-46-7) | |
| LC50 fish 2 | 1.12 mg/l (LC50; 96 h; Salmo gairdneri) |
| EC50 Daphnia 2 | 0.7 mg/l (EC50; 48 h) |
| fluoranthene (206-44-0) | |
| LC50 fish 1 | 0.0077 mg/l (LC50; 96 h) |
| EC50 Daphnia 1 | < 0.1 mg/l (EC50; 72 h) |
| Threshold limit algae 1 | 54 mg/l (EC50; 96 h) |
| Hexachlorocyclopentadiene (77-47-4) | |
| LC50 fish 1 | 0.007 mg/l (LC50; 96 h; Pimephales promelas; Flow-through system; Fresh water) |
| EC50 other aquatic organisms 1 | 0.19 mg/l (96 h; Selastrum capricornutum; Growth rate) |
| isodrin (465-73-6) | |
| LC50 fish 1 | 0.006 mg/l (LC50; 96 h) |

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| | |
|--|--|
| 2-Methylphenol (95-48-7) | |
| EC50 other aquatic organisms 1 | 65 mg/l (96 h; Selenastrum capricornutum) |
| LC50 fish 2 | 7.9 - 8.4 mg/l (LC50; 96 h) |
| EC50 Daphnia 2 | 5 - 9.5 mg/l (EC50; 48 h) |
| 3-Methylphenol (108-39-4) | |
| LC50 fish 1 | 8.9 mg/l (LC50; 96 h; Salmo gairdneri) |
| EC50 Daphnia 1 | 8.9 mg/l (EC50; 24 h) |
| Threshold limit algae 1 | 15 mg/l (EC0; 192 h) |
| 4-Methylphenol (106-44-5) | |
| LC50 fish 2 | 7.5 mg/l (LC50; 96 h) |
| EC50 Daphnia 2 | 1.4 - 21.1 mg/l (EC50; 48 h) |
| Threshold limit algae 2 | 21 mg/l (EC50; 48 h) |
| naphthalene (91-20-3) | |
| EC50 Daphnia 1 | 2.16 mg/l (EC50; 48 h; Daphnia magna) |
| LC50 fish 2 | 0.11 mg/l (LC50; 96 h; Oncorhynchus mykiss) |
| Threshold limit algae 1 | 0.4 mg/l (EC50; 72 h; Skeletonema costatum) |
| nitrobenzene (98-95-3) | |
| LC50 fish 1 | 4.3 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 48 h; Oryzias latipes) |
| phenol (108-95-2) | |
| LC50 other aquatic organisms 1 | 0.04 mg/l (4 days; Rana sp.; LC50) |
| EC50 Daphnia 2 | 6.6 mg/l (EC50; 48 h; Daphnia magna; Static system) |
| pyrene (129-00-0) | |
| EC50 Daphnia 1 | > 0.0057 mg/l (LC50; 3.4 h) |
| EC50 other aquatic organisms 1 | 1.6 mg/l (3 h; Chlorella vulgaris) |
| LC50 fish 2 | 0.0026 mg/l (LC50; 96 h) |
| pyridine (110-86-1) | |
| LC50 fish 1 | 4.6 mg/l (LC50; 96 h) |
| EC50 Daphnia 2 | 495 mg/l (EC50; 48 h) |
| 2,3,4,6-tetrachlorophenol (58-90-2) | |
| LC50 fish 1 | 0.14 mg/l (LC50; 96 h; Lepomis macrochirus) |
| EC50 Daphnia 1 | 0.01 mg/l (EC50; 48 h) |
| Threshold limit algae 2 | 1.3 mg/l (EC50; 96 h) |
| 1,2,4-trichlorobenzene (120-82-1) | |
| LC50 fish 1 | 1.32 mg/l (LC50; 96 h) |
| EC50 Daphnia 1 | 0.86 mg/l (EC50; 48 h) |
| Methylene Chloride (75-09-2) | |
| LC50 fish 1 | 193 mg/l (LC50; 96 h; Pimephales promelas) |
| EC50 Daphnia 1 | 168.2 mg/l (EC50; 48 h) |
| methanol (67-56-1) | |
| 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) |
| acetone (67-64-1) | |
| LC50 fish 2 | 5540 mg/l (LC50; EU Method C.1; 96 h; Salmo gairdneri; Static system; Fresh water; Experimental value) |
| EC50 Daphnia 2 | 12600 mg/l (LC50; Other; 48 h; Daphnia magna; Static system; Fresh water; Experimental value) |

12.2. Persistence and degradability

| | |
|--------------------------------------|---|
| Custom Revised 8270 Spike Mix | |
| Persistence and degradability | May cause long-term adverse effects in the environment. |
| anthracene (120-12-7) | |
| Persistence and degradability | Not readily biodegradable in water. Forming sediments in water. |
| ThOD | 3.41 g O ₂ /g substance |
| BOD (% of ThOD) | 0.02 |

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| | |
|--|--|
| benzo[a]anthracene (56-55-3) | |
| Persistence and degradability | Not readily biodegradable in water. Photolysis in water. Ozonation in water. Forming sediments in water. Biodegradability in soil: no data available. Inhibits biodegradation processes in the soil. Adsorbs into the soil. Photodegradation in the air. |
| ThOD | 2.95 g O ₂ /g substance |
| benzo[a]pyrene (50-32-8) | |
| Persistence and degradability | Not readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil. |
| Chemical oxygen demand (COD) | 2.92 g O ₂ /g substance |
| ThOD | 2.92 g O ₂ /g substance |
| benzo(ghi)perylene (191-24-2) | |
| Persistence and degradability | Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil. |
| ThOD | 2.9 g O ₂ /g substance |
| benzo[k]fluoranthene (207-08-9) | |
| Persistence and degradability | Not readily biodegradable in water. Ozonation in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil. |
| ThOD | 2.92 g O ₂ /g substance |
| caprolactam (105-60-2) | |
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. |
| Biochemical oxygen demand (BOD) | 0.6 g O ₂ /g substance (20 D) |
| Chemical oxygen demand (COD) | 0.03 g O ₂ /g substance (KMnO ₄) |
| chrysene (218-01-9) | |
| Persistence and degradability | Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil. |
| dibenz(a,h)anthracene (53-70-3) | |
| Persistence and degradability | Not readily biodegradable in water. Ozonation in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil. |
| 1,2-dichlorobenzene (95-50-1) | |
| Persistence and degradability | Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil. |
| BOD (% of ThOD) | 0 |
| 1,4-dichlorobenzene (106-46-7) | |
| Persistence and degradability | Readily biodegradable in water. Non degradable in the soil. Adsorbs into the soil. |
| ThOD | 1.52 g O ₂ /g substance |
| BOD (% of ThOD) | 0.65 (Calculated value) |
| fluoranthene (206-44-0) | |
| Persistence and degradability | Forming sediments in water. |
| Hexachlorocyclopentadiene (77-47-4) | |
| Persistence and degradability | Not readily biodegradable in water. Photolysis in water. Biodegradable in the soil. Adsorbs into the soil. Photolysis in the air. |
| isodrin (465-73-6) | |
| Persistence and degradability | Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Photodegradation in the air. |
| 2-Methylphenol (95-48-7) | |
| Persistence and degradability | Readily biodegradable in water. Photodegradation in the air. |
| Biochemical oxygen demand (BOD) | 1.69 - 1.74 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.38 g O ₂ /g substance |
| ThOD | 2.52 g O ₂ /g substance |
| BOD (% of ThOD) | 0.65 |
| 3-Methylphenol (108-39-4) | |
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air. |
| Biochemical oxygen demand (BOD) | 1.7 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.4 g O ₂ /g substance |
| ThOD | 2.52 g O ₂ /g substance |
| BOD (% of ThOD) | 0.68 |
| 4-Methylphenol (106-44-5) | |
| Persistence and degradability | Readily biodegradable in water. Photolysis in the air. |
| Biochemical oxygen demand (BOD) | 1.45 g O ₂ /g substance |

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| 4-Methylphenol (106-44-5) | |
|--|---|
| Chemical oxygen demand (COD) | 2.4 g O ₂ /g substance |
| ThOD | 2.52 g O ₂ /g substance |
| BOD (% of ThOD) | 0.57 |
| naphthalene (91-20-3) | |
| Persistence and degradability | Readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil. Photolysis in the air. |
| Biochemical oxygen demand (BOD) | 0 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 0.22 g O ₂ /g substance |
| ThOD | 2.99 g O ₂ /g substance |
| nitrobenzene (98-95-3) | |
| 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 ₂ /g substance |
| ThOD | 1.95 g O ₂ /g substance |
| BOD (% of ThOD) | 0 |
| N-Nitrosodimethylamine (62-75-9) | |
| Persistence and degradability | Not readily biodegradable in water. Photolysis in water. Photolysis in the air. |
| phenol (108-95-2) | |
| Persistence and degradability | Readily biodegradable in water. Photolysis in water. Readily biodegradable in the soil. Inhibits biodegradation processes in the soil. Low potential for adsorption in soil. Photooxidation in the air. |
| Biochemical oxygen demand (BOD) | 1.68 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.28 g O ₂ /g substance |
| ThOD | 2.38 g O ₂ /g substance |
| BOD (% of ThOD) | 0.71 |
| pyrene (129-00-0) | |
| Persistence and degradability | Not readily biodegradable in water. Photolysis in water. Ozonation in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil. Photodegradation in the air. |
| pyridine (110-86-1) | |
| Persistence and degradability | Readily biodegradable in water. Non degradable in the soil. Biodegradable in the soil under anaerobic conditions. |
| Biochemical oxygen demand (BOD) | 1.15 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 0.05 g O ₂ /g substance |
| ThOD | 2.23 g O ₂ /g substance |
| BOD (% of ThOD) | 0.52 |
| 2,3,4,6-tetrachlorophenol (58-90-2) | |
| Persistence and degradability | Not readily biodegradable in water. Non degradable in the soil. |
| 1,2,4-trichlorobenzene (120-82-1) | |
| Persistence and degradability | Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil. |
| Biochemical oxygen demand (BOD) | 0 g O ₂ /g substance |
| BOD (% of ThOD) | 0 |
| Methylene Chloride (75-09-2) | |
| Persistence and degradability | Not readily biodegradable in water. Biodegradable in the soil. |
| methanol (67-56-1) | |
| 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 ₂ /g substance |
| Chemical oxygen demand (COD) | 1.42 g O ₂ /g substance |
| ThOD | 1.5 g O ₂ /g substance |
| BOD (% of ThOD) | 0.8 (Literature study) |
| acetone (67-64-1) | |
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available. |
| Biochemical oxygen demand (BOD) | 1.43 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 1.92 g O ₂ /g substance |
| ThOD | 2.2 g O ₂ /g substance |
| BOD (% of ThOD) | 0.872 (20 days; Literature study) |

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12.3. Bioaccumulative potential

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|--|---|
| Bioaccumulative potential | Not established. |
| anthracene (120-12-7) | |
| BCF fish 1 | 903 - 2820 (BCF) |
| BCF fish 2 | 9200 (BCF) |
| BCF other aquatic organisms 1 | 7770 (BCF; 24 h; Chlorella sp.) |
| BCF other aquatic organisms 2 | 10500 (BCF) |
| Log Pow | 4.5 |
| Bioaccumulative potential | High potential for bioaccumulation (BCF > 5000). |
| benzo[a]anthracene (56-55-3) | |
| BCF fish 1 | 350 (BCF; 72 h) |
| BCF other aquatic organisms 1 | 1106 (BCF; 24 h) |
| BCF other aquatic organisms 2 | 18000 (BCF; 192 h) |
| Log Pow | 5.61 - 5.79 |
| Bioaccumulative potential | High potential for bioaccumulation (BCF > 5000). |
| benzo[a]pyrene (50-32-8) | |
| BCF fish 1 | 480 (BCF; 72 h) |
| BCF fish 2 | 70.7 (BCF; 168 h; Salmo salar) |
| BCF other aquatic organisms 1 | 3000 (BCF; 192 h) |
| BCF other aquatic organisms 2 | 1.5 (BCF; 24 h) |
| Log Pow | 5.97 - 6.06 |
| Bioaccumulative potential | High potential for bioaccumulation (Log Kow > 5). |
| benzo[ghi]perylene (191-24-2) | |
| Log Pow | 6.51 - 7.23 (Calculated) |
| Bioaccumulative potential | Bioaccumable. |
| benzo[k]fluoranthene (207-08-9) | |
| BCF fish 1 | 8750 (BCF) |
| BCF other aquatic organisms 1 | 0.0013 mg/kg (BCF) |
| BCF other aquatic organisms 2 | 37000 (BCF) |
| Log Pow | 6.84 |
| Bioaccumulative potential | High potential for bioaccumulation (BCF > 5000). |
| caprolactam (105-60-2) | |
| BCF other aquatic organisms 1 | < 1 (BCF; Other) |
| Log Pow | 0.12 (Experimental value; Equivalent or similar to OECD 107; 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| chrysene (218-01-9) | |
| BCF other aquatic organisms 1 | 4440 (BCF) |
| Log Pow | 5.81 - 5.86 (Experimental value) |
| Bioaccumulative potential | High potential for bioaccumulation (Log Kow > 5). |
| dibenz(a,h)anthracene (53-70-3) | |
| Log Pow | 5.97 - 6.84 |
| 1,2-dichlorobenzene (95-50-1) | |
| BCF fish 1 | 90 - 260 (BCF) |
| BCF fish 2 | 270 - 560 (BCF) |
| BCF other aquatic organisms 1 | 14791 (BCF) |
| BCF other aquatic organisms 2 | 28840 (BCF) |
| Log Pow | 3.43 (Experimental value) |
| Bioaccumulative potential | Potential for bioaccumulation (500 ≤ BCF ≤ 5000). |
| 1,4-dichlorobenzene (106-46-7) | |
| BCF fish 1 | 100 (BCF) |
| BCF fish 2 | 214 - 720 (BCF) |
| BCF other aquatic organisms 1 | 20 (BCF) |
| Log Pow | 3.39 - 3.62 (Experimental value) |
| Bioaccumulative potential | Potential for bioaccumulation (500 ≤ BCF ≤ 5000). |
| fluoranthene (206-44-0) | |
| BCF fish 1 | 3981 (BCF) |

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|--|---|
| fluoranthene (206-44-0) | |
| BCF fish 2 | 6110 (BCF) |
| BCF other aquatic organisms 1 | 10000 (BCF; 192 h) |
| BCF other aquatic organisms 2 | 695 (BCF; 48 h) |
| Log Pow | 5.33 |
| Bioaccumulative potential | High potential for bioaccumulation (BCF > 5000). |
| Hexachlorocyclopentadiene (77-47-4) | |
| BCF fish 1 | 1230 (BCF; 72 h; Leuciscus idus) |
| BCF other aquatic organisms 1 | 1090 (BCF; 24 h; Chlorella sp.) |
| Log Pow | 3.99-5.51 |
| Bioaccumulative potential | Potential for bioaccumulation (500 ≤ BCF ≤ 5000). |
| isodrin (465-73-6) | |
| Log Pow | 6.75 (Estimated value) |
| Bioaccumulative potential | Bioaccumable. |
| 2-Methylphenol (95-48-7) | |
| Log Pow | 1.5 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| 3-Methylphenol (108-39-4) | |
| BCF fish 1 | 20 (BCF; 72 h) |
| BCF fish 2 | 10.7 (BCF) |
| BCF other aquatic organisms 1 | 4900 (BCF; 24 h) |
| Log Pow | 1.96 - 2.01 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| 4-Methylphenol (106-44-5) | |
| BCF fish 1 | 4 (BCF) |
| Log Pow | 1.97 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| naphthalene (91-20-3) | |
| BCF fish 1 | 23 - 168 (BCF; 8 weeks; Cyprinus carpio) |
| Log Pow | 3.3 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| nitrobenzene (98-95-3) | |
| 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). |
| N-Nitrosodimethylamine (62-75-9) | |
| Log Pow | -0.77 - -0.57 |
| Bioaccumulative potential | Bioaccumulation: not applicable. |
| N-Nirosodi-n-propylamine (621-64-7) | |
| Log Pow | 1.31 - 1.36 |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| phenol (108-95-2) | |
| Log Pow | 1.47 (Experimental value; Equivalent or similar to OECD 117; 30 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| pyrene (129-00-0) | |
| BCF fish 1 | 600 - 970 (BCF) |
| BCF fish 2 | 4810 (BCF) |
| BCF other aquatic organisms 1 | 2692 (BCF) |
| Log Pow | 4.88 - 5.32 |
| Bioaccumulative potential | High potential for bioaccumulation (Log Kow > 5). |
| pyridine (110-86-1) | |
| Log Pow | 0.65 - 1.04 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

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| | |
|--|--|
| 2,3,4,6-tetrachlorophenol (58-90-2) | |
| BCF fish 1 | 200 (BCF; 24 h) |
| BCF fish 2 | 93 (BCF; 24 h) |
| Log Pow | 4.1 - 4.8 |
| Bioaccumulative potential | Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$). |
| 1,2,4-trichlorobenzene (120-82-1) | |
| BCF fish 1 | 1200 - 3700 (BCF) |
| BCF fish 2 | 1140 - 4420 (BCF) |
| BCF other aquatic organisms 1 | 250 (BCF; 24 h; Chlorella sp.) |
| BCF other aquatic organisms 2 | 142 (BCF) |
| Log Pow | 4.02 (Experimental value) |
| Bioaccumulative potential | Potential for bioaccumulation ($500 \leq \text{BCF} \leq 5000$). |
| Methylene Chloride (75-09-2) | |
| BCF fish 1 | 2 - 40 (BCF) |
| Log Pow | 1.25 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation ($\text{BCF} < 500$). |
| methanol (67-56-1) | |
| BCF fish 1 | < 10 (BCF; 72 h; Leuciscus idus) |
| Log Pow | -0.77 (Experimental value; Other) |
| Bioaccumulative potential | Low potential for bioaccumulation ($\text{BCF} < 500$). |
| acetone (67-64-1) | |
| BCF fish 1 | 0.69 (BCF) |
| BCF other aquatic organisms 1 | 3 (BCF; BCFWIN) |
| Log Pow | -0.24 (Test data) |
| Bioaccumulative potential | Not bioaccumulative. |
| 12.4. Mobility in soil | |
| caprolactam (105-60-2) | |
| Log Koc | log Koc,Other; 1.76; Calculated value |
| 1,2-dichlorobenzene (95-50-1) | |
| Surface tension | 0.037 N/m (20 °C) |
| 1,4-dichlorobenzene (106-46-7) | |
| Surface tension | 0.03 N/m (55 °C) |
| Hexachlorocyclopentadiene (77-47-4) | |
| Surface tension | 0.0375 N/m (20 °C) |
| Log Koc | Koc,4265; Experimental value |
| isodrin (465-73-6) | |
| Ecology - soil | Soil contaminant. |
| 2-Methylphenol (95-48-7) | |
| Surface tension | 0.04 N/m (20 °C) |
| 3-Methylphenol (108-39-4) | |
| Surface tension | 0.04 N/m (20 °C) |
| Ecology - soil | May be harmful to plant growth, blooming and fruit formation. |
| 4-Methylphenol (106-44-5) | |
| Surface tension | 0.041 N/m (40 °C) |
| naphthalene (91-20-3) | |
| Surface tension | 0.03 N/m (100 °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 |
| phenol (108-95-2) | |
| Surface tension | 0.0713 N/m (20 °C) |
| pyridine (110-86-1) | |
| Surface tension | 0.038 N/m (20 °C) |
| 1,2,4-trichlorobenzene (120-82-1) | |
| Surface tension | 0.039 N/m (20 °C) |

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| Methylene Chloride (75-09-2) | |
|-------------------------------------|---|
| Surface tension | 0.028 N/m (20 °C) |
| Ecology - soil | May be harmful to plant growth, blooming and fruit formation. |
| methanol (67-56-1) | |
| Surface tension | 0.023 N/m (20 °C) |
| Log Koc | Koc,PCKOCWIN v1.66; 1; Calculated value |
| acetone (67-64-1) | |
| Surface tension | 0.0237 N/m |

12.5. Results of PBT and vPvB assessment

No additional information available

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.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR) : 1993
UN-No. (IATA) : 1993
UN-No. (IMDG) : 1993
UN-No. (ADN) : 1993

14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, N.O.S.
Proper Shipping Name (IATA) : Flammable liquid, n.o.s.
Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, N.O.S.
Proper Shipping Name (ADN) : FLAMMABLE LIQUID, N.O.S.
Transport document description (ADR) : UN 1993 FLAMMABLE LIQUID, N.O.S. (FLAMMABLE LIQUID, N.O.S.), 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS

14.3. Packing group

Class (ADR) : 3
Classification code (ADR) : F1
Class (IATA) : 3
Class (IMDG) : 3
Class (ADN) : 3
Classification code (ADN) : F1
Hazard labels (ADR) : 3



Hazard labels (IATA) : 3



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Hazard labels (IMDG) : 3



Hazard labels (ADN) : 3



14.4. Packing group

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

14.5. Environmental hazards

Dangerous for the environment :



Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 33
Classification code (ADR) : F1
Orange plates :



Special provision (ADR) : 274, 601, 640D
Transport category (ADR) : 2
Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) : 1I
Excepted quantities (ADR) : E2

14.6.2. Transport by sea

Special provision (IMDG) : 274
Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T7
Tank special provisions (IMDG) : TP1, TP8, TP28
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-E
Stowage category (IMDG) : B

14.6.3. Air transport

CAO packing instructions (IATA) : 364
CAO max net quantity (IATA) : 60L
PCA packing instructions (IATA) : 353
PCA Limited quantities (IATA) : Y341
PCA limited quantity max net quantity (IATA) : 1L
PCA max net quantity (IATA) : 5L
PCA Excepted quantities (IATA) : E2
Special provision (IATA) : A3
ERG code (IATA) : 3H

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14.6.4. Inland waterway transport

| | |
|-----------------------------------|------------------|
| Special provision (ADN) | : 274, 601, 640D |
| Limited quantities (ADN) | : 1 L |
| Excepted quantities (ADN) | : E2 |
| Carriage permitted (ADN) | : T |
| Equipment required (ADN) | : PP, EX, A |
| Ventilation (ADN) | : VE01 |
| Number of blue cones/lights (ADN) | : 1 |
| 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 no REACH candidate substance $\geq 0,1$ % / SCL
- Contains no REACH Annex XIV substances \geq to the Annex XIV limit value

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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