

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

1.1. Product identifier

Product form : Mixture
Product name : Custom 8270 ICV Mix
Product code : AL0-130183
Product group : Trade product

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

1.2.1. Relevant identified uses

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

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Phenova
6390 Joyce Dr. Suite 100
80403 Golden, CO - United States
T 1-866-942-2978 - F 1-866-283-0269
info@phenova.com - 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
Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Dermal)	H312
Acute Tox. 4 (Inhalation)	H332
Carc. 1A	H350
Aquatic Chronic 2	H411

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

Carc.Cat.1; R45
F; R11
E; R2
Xn; R20/21/22
N; R51/53
R44

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02



GHS07



GHS08



GHS09

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Signal word (CLP)	: Danger
Hazardous ingredients	: aniline; benzidine; 4-chloroaniline; bis(2-chloroethyl) ether; Bis(2-chloroisopropyl) ether; 2,4-dichlorophenol; hexachlorobuta-1,3-diene; 4-Nitroaniline; 4-Methylphenol; 2,4-Dimethylphenol; 2,4-dinitrotoluene; 2,4-dinitrophenol; 4,6-Dinitro-2-methylphenol; 2,6-dinitrotoluene; Hexachlorocyclopentadiene; 2-Nitroaniline; 3-Nitroaniline; 2-Methylphenol; nitrobenzene; 2,3,4,5,6-pentachlorophenol; phenol; 2,3,4,6-tetrachlorophenol; N-Nitrosodimethylamine
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H350 - May cause cancer H411 - Toxic to aquatic life with long lasting effects
Precautionary statements (CLP)	: P233 - Keep container tightly closed P261 - Avoid breathing dust/fume/gas/mist/vapours/spray P270 - Do not eat, drink or smoke when using this product 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 P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P308+P313 - IF exposed or concerned: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P370+P378 - In case of fire: Use media other than water to extinguish P391 - Collect spillage P403+P235 - Store in a well-ventilated place. Keep cool P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation
EUH-statements	: EUH208 - Contains aniline(62-53-3), 4-chloroaniline(106-47-8), 3,3'-dichlorobenzidine(91-94-1), 4-chloro-3-methylphenol(59-50-7), 4,6-dinitro-o-cresol(534-52-1). May produce an allergic reaction EUH044 - Risk of explosion if heated under confinement

No labelling applicable

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methylene Chloride (Component)	(CAS-No.) 75-09-2 (EC-No.) 200-838-9 (EC Index-No.) 602-004-00-3	95.7	Carc. 2, H351
aniline (Component)	(CAS-No.) 62-53-3 (EC-No.) 200-539-3 (EC Index-No.) 612-008-00-7	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400
benzidine (Component)	(CAS-No.) 92-87-5 (EC-No.) 202-199-1 (EC Index-No.) 612-042-00-2	0.1	Acute Tox. 4 (Oral), H302 Carc. 1A, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-chloroaniline (Component)	(CAS-No.) 106-47-8 (EC-No.) 203-401-0 (EC Index-No.) 612-137-00-9	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, H317 Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
bis(2-chloroethyl) ether (Component)	(CAS-No.) 111-44-4 (EC-No.) 203-870-1 (EC Index-No.) 603-029-00-2	0.1	Flam. Liq. 3, H226 Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Carc. 2, H351
carbazole (Component)	(CAS-No.) 86-74-8 (EC-No.) 201-696-0	0.1	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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1,2-dichlorobenzene (Component)	(CAS-No.) 95-50-1 (EC-No.) 202-425-9 (EC Index-No.) 602-034-00-7	0.1	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
1,3-dichlorobenzene (Component)	(CAS-No.) 541-73-1 (EC-No.) 208-792-1 (EC Index-No.) 602-067-00-7	0.1	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411
1,4-dichlorobenzene (Component)	(CAS-No.) 106-46-7 (EC-No.) 203-400-5 (EC Index-No.) 602-035-00-2	0.1	Eye Irrit. 2, H319 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,3'-dichlorobenzidine (Component)	(CAS-No.) 91-94-1 (EC-No.) 202-109-0 (EC Index-No.) 612-068-00-4	0.1	Acute Tox. 4 (Dermal), H312 Skin Sens. 1, H317 Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Bis(2-chloroisopropyl) ether (Component)	(CAS-No.) 108-60-1 (EC-No.) 203-598-3	0.1	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
2,4-dichlorophenol (Component)	(CAS-No.) 120-83-2 (EC-No.) 204-429-6 (EC Index-No.) 604-011-00-7	0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Aquatic Chronic 2, H411
2-chlorophenol (Component)	(CAS-No.) 95-57-8 (EC-No.) 202-433-2 (EC Index-No.) 604-008-00-0	0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411
4-chloro-3-methylphenol (Component)	(CAS-No.) 59-50-7 (EC-No.) 200-431-6 (EC Index-No.) 604-014-00-3	0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
hexachlorobuta-1,3-diene (Component)	(CAS-No.) 87-68-3 (EC-No.) 201-765-5	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
hexachloroethane (Component)	(CAS-No.) 67-72-1 (EC-No.) 200-666-4	0.1	Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-Nitroaniline (Component)	(CAS-No.) 100-01-6 (EC-No.) 202-810-1 (EC Index-No.) 612-012-00-9	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Chronic 3, H412
4-Methylphenol (Component)	(CAS-No.) 106-44-5 (EC-No.) 203-398-6 (EC Index-No.) 604-004-00-9	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314
2,4-Dimethylphenol (Component)	(CAS-No.) 105-67-9 (EC-No.) 203-321-6 (EC Index-No.) 604-006-00-X	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Aquatic Chronic 2, H411
2,4-dinitrotoluene (Component) substance listed as REACH Candidate substance listed in REACH Annex XIV (2,4-Dinitrotoluene (2,4-DNT))	(CAS-No.) 121-14-2 (EC-No.) 204-450-0 (EC Index-No.) 609-007-00-9	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Muta. 2, H341 Carc. 1B, H350 Repr. 2, H361f STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
hexachlorobenzene (Component)	(CAS-No.) 118-74-1 (EC-No.) 204-273-9 (EC Index-No.) 602-065-00-6	0.1	Carc. 1B, H350 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4-dinitrophenol (Component)	(CAS-No.) 51-28-5 (EC-No.) 200-087-7 (EC Index-No.) 609-041-00-4	0.1	Acute Tox. 2 (Oral), H300 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Acute 1, H400

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4,6-Dinitro-2-methylphenol (Component)	(CAS-No.) 534-52-1 (EC-No.) 208-601-1 (EC Index-No.) 609-020-00-X	0.1	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
2,6-dinitrotoluene (Component)	(CAS-No.) 606-20-2 (EC-No.) 210-106-0 (EC Index-No.) 609-049-00-8	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Muta. 2, H341 Carc. 1B, H350 Repr. 2, H361f STOT RE 2, H373 Aquatic Chronic 3, H412
Hexachlorocyclopentadiene (Component)	(CAS-No.) 77-47-4 (EC-No.) 201-029-3 (EC Index-No.) 602-078-00-7	0.1	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)
2-Nitroaniline (Component)	(CAS-No.) 88-74-4 (EC-No.) 201-855-4 (EC Index-No.) 612-012-00-9	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Chronic 3, H412
isophorone (Component)	(CAS-No.) 78-59-1 (EC-No.) 201-126-0 (EC Index-No.) 606-012-00-8	0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335
3-Nitroaniline (Component)	(CAS-No.) 99-09-2 (EC-No.) 202-729-1 (EC Index-No.) 612-012-00-9	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Chronic 3, H412
2-Methylphenol (Component)	(CAS-No.) 95-48-7 (EC-No.) 202-423-8 (EC Index-No.) 604-004-00-9	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314
1,2,4-trichlorobenzene (Component)	(CAS-No.) 120-82-1 (EC-No.) 204-428-0 (EC Index-No.) 602-087-00-6	0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
nitrobenzene (Component) substance listed as REACH Candidate	(CAS-No.) 98-95-3 (EC-No.) 202-716-0 (EC Index-No.) 609-003-00-7	0.1	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
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	0.1	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332
2,3,4,5,6-pentachlorophenol (Component)	(CAS-No.) 87-86-5 (EC-No.) 201-778-6 (EC Index-No.) 604-002-00-8	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
phenol (Component)	(CAS-No.) 108-95-2 (EC-No.) 203-632-7 (EC Index-No.) 604-001-00-2	0.1	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
2,3,4,6-tetrachlorophenol (Component)	(CAS-No.) 58-90-2 (EC-No.) 200-402-8 (EC Index-No.) 604-013-00-8	0.1	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

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2,4,6-trichlorophenol (Component)	(CAS-No.) 88-06-2 (EC-No.) 201-795-9 (EC Index-No.) 604-018-00-5	0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4,5-trichlorophenol (Component)	(CAS-No.) 95-95-4 (EC-No.) 202-467-8 (EC Index-No.) 604-017-00-X	0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
N-Nitrosodimethylamine (Component)	(CAS-No.) 62-75-9 (EC-No.) 200-549-8 (EC Index-No.) 612-077-00-3	0.1	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	0.1	Acute Tox. 4 (Oral), H302 Carc. 1B, H350 Aquatic Chronic 2, H411
Resorcinol (Component)	(CAS-No.) 108-46-3 (EC-No.) 203-585-2 (EC Index-No.) 604-010-00-1	0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400

Name	Product identifier	Specific concentration limits
aniline (Component)	(CAS-No.) 62-53-3 (EC-No.) 200-539-3 (EC Index-No.) 612-008-00-7	(0.2 =<C < 1) STOT RE 2, H373 (C >= 1) STOT RE 1, H372
benzidine (Component)	(CAS-No.) 92-87-5 (EC-No.) 202-199-1 (EC Index-No.) 612-042-00-2	(C >= 0.01) Carc. 1A, H350
isophorone (Component)	(CAS-No.) 78-59-1 (EC-No.) 201-126-0 (EC Index-No.) 606-012-00-8	(C >= 10) STOT SE 3, H335
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
2,4,5-trichlorophenol (Component)	(CAS-No.) 95-95-4 (EC-No.) 202-467-8 (EC Index-No.) 604-017-00-X	(C >= 5) Skin Irrit. 2, H315 (C >= 5) Eye Irrit. 2, H319
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

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	: Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse.
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. Call a POISON CENTER or doctor/physician if you feel unwell.

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

Symptoms/effects after inhalation	: May cause cancer by inhalation.
Symptoms/effects after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

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

No additional information available

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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 vapour.
Explosion hazard : May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Risk of explosion if heated under confinement.

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 the 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.
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 vapours 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 vapour. 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. Keep away from sources of ignition - No smoking.
Hygiene measures : Do not eat, drink or smoke when using this product. 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 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

aniline (62-53-3)		
Belgium	Limit value (mg/m ³)	7.7 mg/m ³ (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	2 ppm (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	10 mg/m ³ (Aniline; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)

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aniline (62-53-3)		
France	VME (ppm)	2 ppm (Aniline; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	2 ppm (Aniline; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
United Kingdom	WEL TWA (mg/m ³)	4 mg/m ³ Aniline; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	1 ppm Aniline; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
benzidine (92-87-5)		
France	VME (mg/m ³)	0.008 mg/m ³ (Benzidine; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	0.001 ppm (Benzidine; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
4-chloroaniline (106-47-8)		
Belgium	Limit value (mg/m ³)	7.7 mg/m ³ (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	2 ppm (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
bis(2-chloroethyl) ether (111-44-4)		
Belgium	Limit value (mg/m ³)	29 mg/m ³ (Oxyde de bis(2-chloroéthyle); Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	5 ppm (Oxyde de bis(2-chloroéthyle); Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m ³)	59 mg/m ³ (Oxyde de bis(2-chloroéthyle); Belgium; Short time value)
Belgium	Short time value (ppm)	10 ppm (Oxyde de bis(2-chloroéthyle); Belgium; Short time value)
France	VME (mg/m ³)	30 mg/m ³ (Oxyde de 2,2'-dichlorodéthyle; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	5 ppm (Oxyde de 2,2'-dichlorodéthyle; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	5 ppm (Dichloroethyl ether; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	10 ppm (Dichloroethyl ether; USA; Short time value; TLV - Adopted Value)
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)

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1,2-dichlorobenzene (95-50-1)		
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)
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

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1,4-dichlorobenzene (106-46-7)		
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)
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)
2,4-dinitrotoluene (121-14-2)		
Belgium	Limit value (mg/m ³)	0.15 mg/m ³ (Dinitrotoluène (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0.2 mg/m ³ (Dinitrotoluene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
2,6-dinitrotoluene (606-20-2)		
Belgium	Limit value (mg/m ³)	0.15 mg/m ³ (Dinitrotoluène (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0.2 mg/m ³ (Dinitrotoluene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
hexachlorobenzene (118-74-1)		
Belgium	Limit value (mg/m ³)	0.002 mg/m ³ (Hexachlorobenzène; Belgium; Time-weighted average exposure limit 8 h)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0.002 mg/m ³ (Hexachlorobenzene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0.03 mg/m ³ (Hexachloorbenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
hexachlorobuta-1,3-diene (87-68-3)		
Belgium	Limit value (mg/m ³)	0.21 mg/m ³ (Hexachlorobutadiène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	0.02 ppm (Hexachlorobutadiène; Belgium; Time-weighted average exposure limit 8 h)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.02 ppm (Hexachlorobutadiene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
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)

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hexachloroethane (67-72-1)		
Belgium	Limit value (mg/m ³)	9.8 mg/m ³ (Hexachloroéthane; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	1 ppm (Hexachloroéthane; Belgium; Time-weighted average exposure limit 8 h)
France	VLE (ppm)	10 ppm (Hexachloroéthane; France; Short time value; VL: Valeur non réglementaire indicative)
France	VME (ppm)	1 ppm (Hexachloroéthane; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	1 ppm (Hexachloroethane; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
isophorone (78-59-1)		
Belgium	Short time value (mg/m ³)	mg/m ³
Belgium	Short time value (ppm)	5 ppm
France	VLE (mg/m ³)	Isophorone,25 mg/m ³ ; France; Short time value; VL: Valeur non réglementaire indicative
France	VLE (ppm)	Isophorone,5 ppm; France; Short time value; VL: Valeur non réglementaire indicative
Italy - Portugal - USA ACGIH	ACGIH Ceiling (ppm)	5 ppm
United Kingdom	WEL STEL (mg/m ³)	29 mg/m ³
United Kingdom	WEL STEL (ppm)	5 ppm
4,6-Dinitro-2-methylphenol (534-52-1)		
Belgium	Limit value (mg/m ³)	0.2 mg/m ³ (4,6-Dinitro-o-crésol; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	0.2 mg/m ³ (4,6-Dinitro-o-crésol; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0.2 mg/m ³ (Dinitro-o-cresol; 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)
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)

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4-Methylphenol (106-44-5)		
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)
2-Nitroaniline (88-74-4)		
Belgium	Limit value (mg/m ³)	7.7 mg/m ³ (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	2 ppm (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
3-Nitroaniline (99-09-2)		
Belgium	Limit value (mg/m ³)	7.7 mg/m ³ (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	2 ppm (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
4-Nitroaniline (100-01-6)		
Belgium	Limit value (mg/m ³)	3 mg/m ³ (4-Nitroaniline; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	3 mg/m ³ (4-Nitroaniline; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³ (p-Nitroaniline; USA; Time-weighted average exposure limit 8 h; TLV - Adopted 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)
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)

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N-Nitrosodimethylamine (62-75-9)		
Netherlands	Grenswaarde TGG 8H (ppm)	0.000065 ppm (N-Nitrosodimethylamine; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
2,3,4,5,6-pentachlorophenol (87-86-5)		
Belgium	Limit value (mg/m ³)	0.5 mg/m ³ (Pentachlorophénol; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	0.5 mg/m ³ (Pentachlorophénol; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0.5 mg/m ³ (Pentachlorophenol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)
Italy - Portugal - USA ACGIH	ACGIH STEL (mg/m ³)	1 mg/m ³ (Pentachlorophenol; USA; Short time value; TLV - Adopted Value; Inhalable fraction and vapor)
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)
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)

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pyridine (110-86-1)		
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)
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)

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1,2,4-trichlorobenzene (120-82-1)		
Netherlands	Grenswaarde TGG 8H (ppm)	1 ppm (1,2,4-Trichlorobenzeen; 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-Trichlorobenzeen; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (ppm)	5 ppm (1,2,4-Trichlorobenzeen; 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)

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 : Wear appropriate mask.
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
Colour : Colourless.
Odour : characteristic.
pH : No data available

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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 vapour
Relative density	: No data available
Solubility	: No data available
Explosive properties	: Risk of explosion if heated under confinement.
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-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

Not established.

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.

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ATE CLP (oral)	1857.4129588516 mg/kg bodyweight
ATE CLP (dermal)	1100 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1.5 mg/l/4h
aniline (62-53-3)	
LD50 oral rat	250 mg/kg (Rat)
LD50 dermal rabbit	840 mg/kg (Rabbit; Experimental value; 21 CFR 191.10; 836 mg/kg bodyweight; Rabbit)
LC50 inhalation rat (mg/l)	3.27 mg/l/4h (Rat; Experimental value)
ATE CLP (oral)	250 mg/kg bodyweight
ATE CLP (dermal)	840 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	3.27 mg/l/4h
ATE CLP (dust,mist)	3.27 mg/l/4h
benzidine (92-87-5)	
LD50 oral rat	309 mg/kg (Rat; Literature study)
ATE CLP (oral)	309 mg/kg bodyweight
carbazole (86-74-8)	
LD50 oral rat	>= 5000 mg/kg (Rat)
4-chloroaniline (106-47-8)	
LD50 oral rat	310 mg/kg (Rat)
LD50 dermal rabbit	360 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	2.34 mg/l/4h (Rat)

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4-chloroaniline (106-47-8)	
ATE CLP (oral)	100 mg/kg bodyweight
ATE CLP (dermal)	360 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	2.34 mg/l/4h
ATE CLP (dust,mist)	2.34 mg/l/4h

bis(2-chloroethyl) ether (111-44-4)	
LC50 inhalation rat (mg/l)	0.33 mg/l/4h (Rat)
ATE CLP (oral)	5 mg/kg bodyweight
ATE CLP (dermal)	5 mg/kg bodyweight
ATE CLP (gases)	100 ppmv/4h
ATE CLP (vapours)	0.33 mg/l/4h
ATE CLP (dust,mist)	0.33 mg/l/4h

Bis(2-chloroisopropyl) ether (108-60-1)	
LD50 oral rat	240 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	3300 mg/kg (Rabbit)
ATE CLP (oral)	240 mg/kg bodyweight
ATE CLP (dermal)	3300 mg/kg bodyweight

4-chloro-3-methylphenol (59-50-7)	
LD50 oral rat	1194 mg/kg (Rat)
LC50 inhalation rat (mg/l)	> 0.7 mg/l/4h (Rat)
ATE CLP (oral)	1194 mg/kg bodyweight
ATE CLP (dermal)	1100 mg/kg bodyweight

2-chlorophenol (95-57-8)	
LD50 oral rat	670 mg/kg bodyweight (Rat; Literature study)
ATE CLP (oral)	670 mg/kg bodyweight
ATE CLP (dermal)	1100 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	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 bodyweight
ATE CLP (vapours)	9.5 mg/l/4h
ATE CLP (dust,mist)	9.5 mg/l/4h

1,3-dichlorobenzene (541-73-1)	
LD50 oral rat	580 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)
LC50 inhalation rat (mg/l)	> 17.6 mg/l/4h (Rat; Literature study)
ATE CLP (oral)	580 mg/kg bodyweight

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)

3,3'-dichlorobenzidine (91-94-1)	
LD50 oral rat	7070 mg/kg (Rat)
ATE CLP (oral)	7070 mg/kg bodyweight
ATE CLP (dermal)	1100 mg/kg bodyweight

2,4-dichlorophenol (120-83-2)	
LD50 dermal rat	780 mg/kg bodyweight (Rat; Weight of evidence; OECD 402: Acute Dermal Toxicity)
ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (dermal)	780 mg/kg bodyweight

2,4-Dimethylphenol (105-67-9)	
ATE CLP (oral)	100 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight

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2,4-dinitrophenol (51-28-5)	
LD50 oral rat	30 mg/kg (Rat)
ATE CLP (oral)	30 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	3 mg/l/4h
ATE CLP (dust,mist)	0.5 mg/l/4h
2,4-dinitrotoluene (121-14-2)	
ATE CLP (oral)	100 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	3 mg/l/4h
ATE CLP (dust,mist)	0.5 mg/l/4h
2,6-dinitrotoluene (606-20-2)	
LD50 oral rat	177 mg/kg (Rat)
ATE CLP (oral)	177 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	3 mg/l/4h
ATE CLP (dust,mist)	0.5 mg/l/4h
hexachlorobenzene (118-74-1)	
LD50 oral rat	10000 mg/kg (Rat)
ATE CLP (oral)	10000 mg/kg bodyweight
hexachlorobuta-1,3-diene (87-68-3)	
LD50 oral rat	90 mg/kg (Rat)
LD50 dermal rabbit	1211 mg/kg (Rabbit)
ATE CLP (oral)	90 mg/kg bodyweight
ATE CLP (dermal)	1211 mg/kg bodyweight
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 bodyweight
ATE CLP (dermal)	200 mg/kg bodyweight
ATE CLP (gases)	100 ppmv/4h
ATE CLP (vapours)	0.018 mg/l/4h
ATE CLP (dust,mist)	0.018 mg/l/4h
hexachloroethane (67-72-1)	
LD50 oral rat	4460 mg/kg (Rat)
LD50 dermal rabbit	32000 mg/kg (Rabbit)
ATE CLP (oral)	4460 mg/kg bodyweight
ATE CLP (dermal)	32000 mg/kg bodyweight
isophorone (78-59-1)	
LD50 oral rat	1870 mg/kg (Rat)
LD50 dermal rat	1390 mg/kg (Rat)
LD50 dermal rabbit	1350 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	7.2 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	1281 ppm/4h (Rat)
ATE CLP (oral)	1870 mg/kg bodyweight
ATE CLP (dermal)	1350 mg/kg bodyweight
ATE CLP (gases)	1281 ppmv/4h
ATE CLP (vapours)	7.2 mg/l/4h
ATE CLP (dust,mist)	7.2 mg/l/4h
4,6-Dinitro-2-methylphenol (534-52-1)	
LD50 oral rat	7 - 40 mg/kg (Rat)
LD50 dermal rat	200 mg/kg (Rat)

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4,6-Dinitro-2-methylphenol (534-52-1)	
ATE CLP (oral)	7 mg/kg bodyweight
ATE CLP (dermal)	5 mg/kg bodyweight
ATE CLP (gases)	100 ppmv/4h
ATE CLP (vapours)	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 bodyweight
ATE CLP (dermal)	620 mg/kg bodyweight
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 bodyweight
ATE CLP (dermal)	301 mg/kg bodyweight
2-Nitroaniline (88-74-4)	
ATE CLP (oral)	100 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	3 mg/l/4h
ATE CLP (dust,mist)	0.5 mg/l/4h
3-Nitroaniline (99-09-2)	
LD50 oral rat	535 mg/kg (Rat)
ATE CLP (oral)	100 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	3 mg/l/4h
ATE CLP (dust,mist)	0.5 mg/l/4h
4-Nitroaniline (100-01-6)	
ATE CLP (oral)	100 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	3 mg/l/4h
ATE CLP (dust,mist)	0.5 mg/l/4h
nitrobenzene (98-95-3)	
LD50 oral rat	640 mg/kg (Rat; Experimental value; 588 mg/kg bodyweight; Rat)
LD50 dermal rabbit	760 mg/kg bodyweight (Rabbit; Experimental value)
ATE CLP (oral)	100 mg/kg bodyweight
ATE CLP (dermal)	760 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	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 bodyweight
ATE CLP (gases)	78 ppmv/4h
ATE CLP (vapours)	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 bodyweight
2,3,4,5,6-pentachlorophenol (87-86-5)	
ATE CLP (oral)	100 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight

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2,3,4,5,6-pentachlorophenol (87-86-5)	
ATE CLP (gases)	100 ppmv/4h
ATE CLP (vapours)	0.5 mg/l/4h
ATE CLP (dust,mist)	0.05 mg/l/4h
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 bodyweight
ATE CLP (dermal)	660 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	0.32 mg/l/4h
ATE CLP (dust,mist)	0.32 mg/l/4h
pyridine (110-86-1)	
LD50 oral rat	> 891 mg/kg (Rat)
LD50 dermal rabbit	1120 mg/kg (Rabbit)
ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (dermal)	1120 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1.5 mg/l/4h
Resorcinol (108-46-3)	
LD50 oral rat	510 mg/kg
LD50 dermal rabbit	2830 mg/kg
ATE CLP (oral)	510 mg/kg bodyweight
ATE CLP (dermal)	2830 mg/kg bodyweight
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 bodyweight
ATE CLP (dermal)	485 mg/kg bodyweight
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 bodyweight
ATE CLP (dermal)	6139 mg/kg bodyweight
2,4,5-trichlorophenol (95-95-4)	
LD50 oral rat	820 mg/kg (Rat)
ATE CLP (oral)	820 mg/kg bodyweight
2,4,6-trichlorophenol (88-06-2)	
LD50 oral rat	820 mg/kg (Rat; Literature study)
ATE CLP (oral)	820 mg/kg bodyweight
Methylene Chloride (75-09-2)	
LD50 oral rat	> 2000 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Literature study)

Skin corrosion/irritation	: Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: May cause cancer. May cause cancer

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Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified Based on available data, the classification criteria are not met
STOT-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	: Harmful if swallowed. Harmful in contact with skin.

SECTION 12: Ecological information

12.1. Toxicity

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

benzidine (92-87-5)	
EC50 Daphnia 1	0.6 mg/l (EC50; 48 h)
LC50 fish 2	7.4 mg/l (LC50; 96 h; Salmo gairdneri)
Threshold limit algae 1	20 mg/l (LC50)
carbazole (86-74-8)	
EC50 Daphnia 1	2.3 - 4.9 mg/l (EC50; 48 h)
LC50 fish 2	0.93 mg/l (LC50; 96 h)
4-chloroaniline (106-47-8)	
EC50 Daphnia 1	0.31 mg/l (EC50; 48 h)
LC50 fish 2	11 mg/l (LC50; 96 h; Salmo gairdneri)
bis(2-chloroethyl) ether (111-44-4)	
EC50 Daphnia 1	238 mg/l (EC50; 48 h)
LC50 fish 2	600 mg/l (LC50; 96 h; Lepomis macrochirus)
Bis(2-chloroisopropyl) ether (108-60-1)	
LC50 fish 1	71.2 mg/l (LC50; 48 h)
4-chloro-3-methylphenol (59-50-7)	
LC50 fish 2	0.917 mg/l (LC50; 96 h)
EC50 Daphnia 2	2 mg/l (EC50; 48 h)
Threshold limit algae 1	4.2 mg/l (EC50; 72 h)
2-chlorophenol (95-57-8)	
LC50 fish 1	2.6 mg/l (LC50; 96 h; Salmo gairdneri)
EC50 Daphnia 1	7.4 mg/l (EC50; 48 h; Daphnia magna)
Threshold limit algae 2	70 mg/l (EC50; 72 h; Algae)
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)
1,3-dichlorobenzene (541-73-1)	
LC50 fish 1	1.61 mg/l (LC50; 96 h)
EC50 Daphnia 1	1.2 mg/l (EC50; Equivalent or similar to OECD 202; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
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)
3,3'-dichlorobenzidine (91-94-1)	
EC50 other aquatic organisms 1	4.3 mg/l (72 h; Scenedesmus subspicatus; Growth rate)
LC50 fish 2	0.5 mg/l (LC50; 96 h)
2,4-dichlorophenol (120-83-2)	
EC50 Daphnia 2	1.3 - 5.1 mg/l (EC50; 48 h; Daphnia magna)
2,4-Dimethylphenol (105-67-9)	
LC50 fish 1	7.8 mg/l (LC50; 96 h)
EC50 Daphnia 1	2.1 mg/l (EC50; 48 h)
Threshold limit algae 2	32 mg/l (EC50; 72 h)

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2,4-dinitrophenol (51-28-5)	
LC50 fish 1	0.62 mg/l (LC50; 96 h; Lepomis macrochirus)
EC50 Daphnia 1	4.39 mg/l (EC50; 48 h)
2,6-dinitrotoluene (606-20-2)	
LC50 fish 1	18.5 - 50 mg/l (LC50; 96 h)
EC50 Daphnia 2	21.7 mg/l (EC50; 48 h)
hexachlorobenzene (118-74-1)	
LC50 fish 2	2.3 mg/l (LC50; 96 h)
EC50 Daphnia 2	> 0.03 mg/l (EC50; 24 h)
hexachlorobuta-1,3-diene (87-68-3)	
LC50 fish 2	0.25 mg/l (LC50; 96 h)
EC50 other aquatic organisms 2	0.21 mg/l (96 h; Lymnaea sp.)
Threshold limit algae 2	> 25 mg/l (EC0)
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; Selenastrum capricornutum; Growth rate)
hexachloroethane (67-72-1)	
EC50 Daphnia 1	1.4 mg/l (EC50)
LC50 fish 2	0.84 mg/l (LC50; 96 h)
Threshold limit algae 1	7.75 mg/l (EC50; 96 h)
isophorone (78-59-1)	
LC50 fish 1	145 - 255 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	117 mg/l (48 h; Daphnia magna)
EC50 other aquatic organisms 1	126 mg/l (96 h; Selenastrum capricornutum; Growth rate)
LC50 fish 2	220 mg/l (96 h; Lepomis macrochirus)
TLM fish 1	1 - 100, Pisces; Nocivity test
Threshold limit algae 1	475.4 mg/l (72 h; Scenedesmus subspicatus; Growth rate)
4,6-Dinitro-2-methylphenol (534-52-1)	
LC50 fish 1	0.066 mg/l (LC50; 96 h)
EC50 Daphnia 1	0.145 mg/l (EC50; 48 h)
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)
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)
2-Nitroaniline (88-74-4)	
EC50 Daphnia 1	10 - 18 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)
LC50 fish 2	10 - 22 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio)
3-Nitroaniline (99-09-2)	
LC50 fish 2	134.31 mg/l (LC50; 96 h)
4-Nitroaniline (100-01-6)	
EC50 Daphnia 1	24 mg/l (EC50; 48 h)
LC50 fish 2	87.6 mg/l (LC50; 96 h; Brachydanio rerio)
Threshold limit algae 1	11 mg/l (EC0; 192 h)
nitrobenzene (98-95-3)	
LC50 fish 1	4.3 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 48 h; Oryzias latipes)
2,3,4,5,6-pentachlorophenol (87-86-5)	
LC50 fish 1	0.052 mg/l (LC50; 96 h)
EC50 Daphnia 1	0.01 - 0.36 mg/l (EC50; 48 h)
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)

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pyridine (110-86-1)	
LC50 fish 1	4.6 mg/l (LC50; 96 h)
EC50 Daphnia 2	495 mg/l (EC50; 48 h)
Resorcinol (108-46-3)	
LC50 fish 1	29.5 mg/l
EC50 Daphnia 1	1 mg/l
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)
2,4,5-trichlorophenol (95-95-4)	
LC50 fish 1	0.45 mg/l (LC50; 96 h; Lepomis macrochirus)
EC50 Daphnia 1	0.9 - 2.7 mg/l (EC50; 48 h)
2,4,6-trichlorophenol (88-06-2)	
LC50 fish 1	0.73 mg/l (LC50; 96 h; Salmo gairdneri)
EC50 Daphnia 2	0.69 mg/l (EC50; 48 h; Daphnia magna)
Threshold limit algae 2	3.5 mg/l (EC50; 96 h; Selenastrum capricornutum)
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)
12.2. Persistence and degradability	
Custom 8270 ICV Mix	
Persistence and degradability	May cause long-term adverse effects in the environment.
aniline (62-53-3)	
Persistence and degradability	Readily biodegradable in water. Photodegradation in water. Inhibition of nitrification. Biodegradable in the soil. Low potential for adsorption in soil.
BOD (% of ThOD)	0.62
benzidine (92-87-5)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
carbazole (86-74-8)	
Persistence and degradability	Not readily biodegradable in water.
4-chloroaniline (106-47-8)	
Persistence and degradability	Inherently biodegradable. Not readily biodegradable in water. Photooxidation in water. Non degradable in the soil. Photolysis in the air.
bis(2-chloroethyl) ether (111-44-4)	
Persistence and degradability	Not readily biodegradable in water.
Bis(2-chloroisopropyl) ether (108-60-1)	
Persistence and degradability	Not readily biodegradable in water.
4-chloro-3-methylphenol (59-50-7)	
Persistence and degradability	Biodegradable in water.
Chemical oxygen demand (COD)	1.5 - 1.8 g O ₂ /g substance
2-chlorophenol (95-57-8)	
Persistence and degradability	Not readily biodegradable in water. Inherently biodegradable. Biodegradable in 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
1,3-dichlorobenzene (541-73-1)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Low potential for adsorption in soil.
1,4-dichlorobenzene (106-46-7)	
Persistence and degradability	Readily biodegradable in water. Non degradable in the soil. Adsorbs into the soil.

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1,4-dichlorobenzene (106-46-7)	
ThOD	1.52 g O ₂ /g substance
BOD (% of ThOD)	0.65 (Calculated value)
3,3'-dichlorobenzidine (91-94-1)	
Persistence and degradability	Inherently biodegradable. Not readily biodegradable in water. Photolysis in the air.
2,4-dichlorophenol (120-83-2)	
Persistence and degradability	Not readily biodegradable in water. Inherently biodegradable. Biodegradable in the soil. No (test)data on mobility of the substance available.
2,4-dinitrophenol (51-28-5)	
Persistence and degradability	Readily biodegradable in water. Biodegradability in soil: no data available.
2,4-dinitrotoluene (121-14-2)	
Persistence and degradability	Not readily biodegradable in water.
Chemical oxygen demand (COD)	1.6 g O ₂ /g substance
2,6-dinitrotoluene (606-20-2)	
Persistence and degradability	Not readily biodegradable in water.
hexachlorobenzene (118-74-1)	
Persistence and degradability	Not readily biodegradable in water. Not easily biodegradable in water in anaerobic conditions. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
hexachlorobuta-1,3-diene (87-68-3)	
Persistence and degradability	Readily biodegradable in water. Biodegradability in soil: no data available.
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.
hexachloroethane (67-72-1)	
Persistence and degradability	Not readily biodegradable in water.
isophorone (78-59-1)	
Persistence and degradability	Readily biodegradable in water. Ozonation in the air. Photolysis in the air.
ThOD	2.78 g O ₂ /g substance
4,6-Dinitro-2-methylphenol (534-52-1)	
Persistence and degradability	Not readily biodegradable in water.
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
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
Chemical oxygen demand (COD)	2.4 g O ₂ /g substance
ThOD	2.52 g O ₂ /g substance
BOD (% of ThOD)	0.57
2-Nitroaniline (88-74-4)	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil. Photolysis in the air.
3-Nitroaniline (99-09-2)	
Persistence and degradability	Not readily biodegradable in water.
4-Nitroaniline (100-01-6)	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil. Photodegradation in the air.
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.

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2,3,4,5,6-pentachlorophenol (87-86-5)	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.
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
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
2,4,5-trichlorophenol (95-95-4)	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.
2,4,6-trichlorophenol (88-06-2)	
Persistence and degradability	Readily biodegradable in water. Readily biodegradable in the soil. No (test)data on mobility of the substance available.
Methylene Chloride (75-09-2)	
Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil.
12.3. Bioaccumulative potential	
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Bioaccumulative potential	Not established.
aniline (62-53-3)	
BCF fish 2	2.6 (BCF; Danio rerio; Static system)
Log Pow	0.91 (Experimental value; EU Method A.8: Partition Coefficient; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
benzidine (92-87-5)	
BCF fish 1	55 (BCF)
BCF fish 2	38 - 42 (BCF; 908 h; Lepomis macrochirus)
BCF other aquatic organisms 1	2512 (BCF)
BCF other aquatic organisms 2	293 (BCF)
Log Pow	1.34 - 1.81
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
carbazole (86-74-8)	
BCF fish 1	34 - 241 (BCF)
BCF fish 2	500 (BCF)
BCF other aquatic organisms 1	115 (BCF)
BCF other aquatic organisms 2	108 (BCF; 24 h)
Log Pow	3.84 (OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
4-chloroaniline (106-47-8)	
BCF fish 1	< 20 (BCF; 72 h)
BCF fish 2	0.8 - 1.7 (BCF; 336 h)
BCF other aquatic organisms 1	260 (BCF; 24 h; Chlorella sp.)
Log Pow	1.76 - 1.83
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

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bis(2-chloroethyl) ether (111-44-4)	
BCF fish 1	< 10 (BCF)
BCF fish 2	10.96 (BCF; 336 h)
Log Pow	1.12 - 1.58
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Bis(2-chloroisopropyl) ether (108-60-1)	
BCF fish 1	< <5.2/12,BCF
Log Pow	2.48
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
4-chloro-3-methylphenol (59-50-7)	
BCF fish 1	5.5 - 13 (BCF)
Log Pow	2.78 - 3.10
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2-chlorophenol (95-57-8)	
BCF fish 2	14 - 29 (BCF; 6 weeks; Cyprinus carpio)
Log Pow	2.15 (Literature)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
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).
1,3-dichlorobenzene (541-73-1)	
BCF fish 1	420 - 740 (BCF)
BCF fish 2	57 - 370 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 8 weeks; Cyprinus carpio; Flow-through system; Fresh water; Experimental value)
Log Pow	3.4 - 4.6
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
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).
3,3'-dichlorobenzidine (91-94-1)	
BCF fish 1	507 (BCF; 168 h)
BCF fish 2	43 - 213 (BCF)
BCF other aquatic organisms 1	940 (BCF)
Log Pow	3.02 - 3.78
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
2,4-dichlorophenol (120-83-2)	
BCF fish 1	7.1 - 69 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 8 weeks; Cyprinus carpio; Fresh water)
Log Pow	3 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2,4-Dimethylphenol (105-67-9)	
BCF fish 1	150 (BCF; 672 h; Lepomis macrochirus)
Log Pow	2.2 - 2.5
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2,4-dinitrophenol (51-28-5)	
BCF fish 1	< 3.7 (BCF)
Log Pow	1.05 - 1.59
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2,4-dinitrotoluene (121-14-2)	
BCF fish 1	102.8 (BCF; 336 h)
BCF fish 2	16 - 204 (BCF)

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2,4-dinitrotoluene (121-14-2)	
BCF other aquatic organisms 1	13 (BCF; 96 h)
BCF other aquatic organisms 2	58 (BCF; 96 h)
Log Pow	1.98 - 2.8
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2,6-dinitrotoluene (606-20-2)	
BCF fish 1	22 (BCF)
BCF other aquatic organisms 1	5225 (BCF)
Log Pow	1.72 - 2.05
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
hexachlorobenzene (118-74-1)	
BCF fish 1	20000 (BCF)
BCF fish 2	30000 (BCF)
BCF other aquatic organisms 1	25000 (BCF)
BCF other aquatic organisms 2	1130 (BCF; 720 h)
Log Pow	5.73 - 6.39 (Experimental value)
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
hexachlorobuta-1,3-diene (87-68-3)	
BCF fish 1	17000 (BCF)
BCF fish 2	7000 (BCF)
BCF other aquatic organisms 1	45.36 (BCF)
BCF other aquatic organisms 2	3000 (BCF)
Log Pow	3.74 - 4.90
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).
hexachloroethane (67-72-1)	
BCF fish 1	1200 (BCF)
BCF fish 2	756 mg/l (BCF; 768 h)
Log Pow	3.34 - 4.62
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
isophorone (78-59-1)	
BCF fish 1	7 (24 h; Lepomis macrochirus)
BCF fish 2	< 1.1/<10,Cyprinus carpio; Test duration: 6 weeks
Log Pow	1.7 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
4,6-Dinitro-2-methylphenol (534-52-1)	
BCF fish 1	0.3 - 2.9 (BCF)
Log Pow	2.12 - 3.1
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2-Methylphenol (95-48-7)	
Log Pow	1.5 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
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).
2-Nitroaniline (88-74-4)	
BCF fish 1	2.1 - 4.9 (BCF)
BCF fish 2	8.1 (BCF; 24 h; Brachydanio rerio)
Log Pow	1.44 - 1.83
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
3-Nitroaniline (99-09-2)	
BCF fish 1	< 1.1/<10,BCF
Log Pow	1.37

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3-Nitroaniline (99-09-2)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
4-Nitroaniline (100-01-6)	
BCF fish 1	< 2.9/<10,BCF
Log Pow	1.4
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).
2,3,4,5,6-pentachlorophenol (87-86-5)	
BCF fish 1	770 (BCF; 768 h)
BCF fish 2	39 - 224 (BCF)
BCF other aquatic organisms 1	1250 (BCF)
Log Pow	4.07 - 5.19
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
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).
pyridine (110-86-1)	
Log Pow	0.65 - 1.04 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
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 ($500 \leq \text{BCF} \leq 5000$).
2,4,5-trichlorophenol (95-95-4)	
BCF fish 1	62 (BCF)
BCF fish 2	121 - 825 (BCF)
Log Pow	3.06 - 4.19
Bioaccumulative potential	Potential for bioaccumulation ($500 \leq \text{BCF} \leq 5000$).
2,4,6-trichlorophenol (88-06-2)	
BCF fish 2	12130 (BCF; 36 days; Poecilia reticulata)
Log Pow	3.4 - 4.05 (Literature)
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
Methylene Chloride (75-09-2)	
BCF fish 1	2 - 40 (BCF)
Log Pow	1.25 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

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aniline (62-53-3)	
Surface tension	0.071 N/m (20 °C; 0.042 N/m; 25 °C; 0.039 N/m; 50 °C; 0.037 N/m; 75 °C)
Log Koc	Koc,130; Experimental value; GLP
4-chloroaniline (106-47-8)	
Ecology - soil	Soil contaminant.
bis(2-chloroethyl) ether (111-44-4)	
Surface tension	0.038 N/m (19 °C)
Bis(2-chloroisopropyl) ether (108-60-1)	
Ecology - soil	Not toxic to plants.
2-chlorophenol (95-57-8)	
Surface tension	0.042 N/m (13 °C)
1,2-dichlorobenzene (95-50-1)	
Surface tension	0.037 N/m (20 °C)
1,3-dichlorobenzene (541-73-1)	
Surface tension	0.036 N/m (20 °C)
Log Koc	log Koc,Other; 2.56; Experimental value
1,4-dichlorobenzene (106-46-7)	
Surface tension	0.03 N/m (55 °C)
2,4-dinitrophenol (51-28-5)	
Ecology - soil	Toxic to flora.
2,4-dinitrotoluene (121-14-2)	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
hexachlorobenzene (118-74-1)	
Ecology - soil	Not toxic to bees.
hexachlorobuta-1,3-diene (87-68-3)	
Ecology - soil	Soil contaminant.
Hexachlorocyclopentadiene (77-47-4)	
Surface tension	0.0375 N/m (20 °C)
Log Koc	Koc,4265; Experimental value
isophorone (78-59-1)	
Surface tension	0.032 N/m
2-Methylphenol (95-48-7)	
Surface tension	0.04 N/m (20 °C)
4-Methylphenol (106-44-5)	
Surface tension	0.041 N/m (40 °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)
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.

12.5. Results of PBT and vPvB assessment

Component	
2,4-dinitrotoluene (121-14-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
nitrobenzene (98-95-3)	This substance/mixture meets the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information : Avoid release to the environment

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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 vapours 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)	: 3082
UN-No. (IATA)	: 3082
UN-No. (IMDG)	: 3082
UN-No. (ADN)	: 3082

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s.
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (ADN)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description (ADR)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, (E)

14.3. Packing group

Class (ADR)	: 9
Classification code (ADR)	: M6
Class (IATA)	: 9
Class (IMDG)	: 9
Class (ADN)	: 9
Classification code (ADN)	: M6
Danger labels (ADR)	: 9



Hazard labels (IATA)	: 9
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Danger labels (IMDG)	: 9
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Danger labels (ADN)	: 9
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14.4. Packing group

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

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14.5. Environmental hazards

Dangerous for the environment :



Other information :

No supplementary information available.

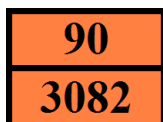
14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 90

Classification code (ADR) : M6

Orange plates :



Special provisions (ADR) : 274, 335, 601, 375

Transport category (ADR) : 3

Tunnel restriction code (ADR) : E

Limited quantities (ADR) : 5I

Excepted quantities (ADR) : E1

14.6.2. Transport by sea

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, LP01

Special packing provisions (IMDG) : PP1

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T4

Tank special provisions (IMDG) : TP2, TP29

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-F

Stowage category (IMDG) : A

14.6.3. Air transport

CAO packing instructions (IATA) : 964

CAO max net quantity (IATA) : 450L

PCA packing instructions (IATA) : 964

PCA Limited quantities (IATA) : Y964

PCA limited quantity max net quantity (IATA) : 30kgG

PCA max net quantity (IATA) : 450L

PCA Excepted quantities (IATA) : E1

Special provisions (IATA) : A97, A158, A197

ERG code (IATA) : 9L

14.6.4. Inland waterway transport

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP

Number of blue cones/lights (ADN) : 0

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

Custom 8270 ICV Mix

Safety Data Sheet

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

Contains no REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration $\geq 0.1\%$ or with a lower specific limit: 2,4-Dinitrotoluene (EC 204-450-0, CAS 121-14-2), Nitrobenzene (EC 202-716-0, CAS 98-95-3)

Contains REACH Annex XIV substances:

15.1.2. National regulations

Germany

Water hazard class (WGK) : 3 - severe hazard to waters

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, labelling 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.

PHV SDS EU

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