

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

1.1. Product identifier

Product form : Mixtures
Product name : 8270 Calibration Standard
Product code : AL0-101232
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
Acute Tox. 4 (Oral)	H302
Acute Tox. 3 (Dermal)	H311
Acute Tox. 4 (Inhalation)	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Muta. 1B	H340
Carc. 1A	H350
STOT SE 2	H371
STOT RE 1	H372
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02



GHS06



GHS08



GHS09

Signal word (CLP) : Danger

Hazardous ingredients : acenaphthylene, azobenzene, benzo[a]anthracene, benzo[a]pyrene, Benzo(b)fluoranthene, benzo[k]fluoranthene, bis(2-chloroethoxy) methane, bis(2-chloroethyl) ether, Bis(2-

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chloroisopropyl) ether, 4-chloroaniline, chrysene, dibenz(a,h)anthracene, 2,4-dichlorophenol, 2,4-Dimethylphenol, 1,2-dinitrobenzene, 1,3-dinitrobenzene, 1,4-dinitrobenzene, 4,6-Dinitro-2-methylphenol, 2,4-dinitrophenol, 2,4-dinitrotoluene, 2,6-dinitrotoluene, hexachlorobenzene, hexachlorobuta-1,3-diene, Hexachlorocyclopentadiene, indeno(1,2,3-cd)pyrene, 2-Methylphenol, 2-Nitroaniline, 3-Nitroaniline, 4-Nitroaniline, nitrobenzene, N-Nitrosodimethylamine, N-Nirosodi-propylamine, 2,3,4,5,6-pentachlorophenol, phenol, 2,3,4,6-tetrachlorophenol, 2,3,5,6-tetrachlorophenol, Methylene Chloride, benzene, methanol

Hazard statements (CLP)

- : H225 - Highly flammable liquid and vapor
- H302 + H332 - Harmful if swallowed or if inhaled
- H311 - Toxic in contact with skin
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H340 - May cause genetic defects
- H350 - May cause cancer
- H371 - May cause damage to organs
- H372 - Causes damage to organs through prolonged or repeated exposure
- H410 - Very 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
- P260 - Do not breathe fume, gas, mist, spray, vapors
- 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 eye protection, protective clothing, protective gloves
- P308 + P313 - IF exposed or concerned: Get medical advice/attention
- P362 + P364 - Take off contaminated clothing and wash it before reuse
- P391 - Collect spillage
- P403 + P235 - Store in a well-ventilated place. Keep cool

EUH phrases

- : EUH208 - Contains benzo[a]pyrene(50-32-8), 4-chloroaniline(106-47-8), 4-chloro-3-methylphenol(59-50-7), 4,6-dinitro-o-cresol(534-52-1), phenanthrene(85-01-8). May produce an allergic reaction
- EUH044 - Risk of explosion if heated under confinement

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	79.6	Carc. 2, H351
benzene	(CAS No) 71-43-2 (EC no) 200-753-7 (EC index no) 601-020-00-8	10	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 1B, H340 Carc. 1A, H350 STOT RE 1, H372 Asp. Tox. 1, H304
methanol	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X	3	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
acenaphthene (Component)	(CAS No) 83-32-9 (EC no) 201-469-6	0.1	Eye Irrit. 2, H319 Aquatic Chronic 2, H411
acenaphthylene (Component)	(CAS No) 208-96-8 (EC no) 205-917-1	0.1	Acute Tox. 1 (Dermal), H310
anthracene (Component) substance listed as REACH Candidate	(CAS No) 120-12-7 (EC no) 204-371-1	0.1	Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
azobenzene (Component)	(CAS No) 103-33-3 (EC no) 203-102-5 (EC index no) 611-001-00-6	0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Muta. 2, H341 Carc. 1B, H350 STOT RE 2, H373 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410

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benzo[a]anthracene (Component)	(CAS No) 56-55-3 (EC no) 200-280-6 (EC index no) 601-033-00-9	0.1	Carc. 1B, H350 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
benzo[a]pyrene (Component)	(CAS No) 50-32-8 (EC no) 200-028-5 (EC index no) 601-032-00-3	0.1	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(b)fluoranthene (Component)	(CAS No) 205-99-2 (EC no) 205-911-9 (EC index no) 601-034-00-4	0.1	Carc. 1B, H350 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
benzo(ghi)perylene (Component)	(CAS No) 191-24-2 (EC no) 205-883-8	0.1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
benzo[k]fluoranthene (Component)	(CAS No) 207-08-9 (EC no) 205-916-6 (EC index no) 601-036-00-5	0.1	Carc. 1B, H350 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
benzyl butyl phthalate (Component) substance listed as REACH Candidate (Benzyl butyl phthalate (BBP)) substance listed in REACH Annex XIV (Benzyl butyl phthalate (BBP))	(CAS No) 85-68-7 (EC no) 201-622-7 (EC index no) 607-430-00-3	0.1	Repr. 1B, H360D Aquatic Acute 1, H400 Aquatic Chronic 1, H410
bis(2-chloroethoxy) methane (Component)	(CAS No) 111-91-1 (EC no) 203-920-2	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2, H319
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
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
bis(2-ethylhexyl)adipate (Component)	(CAS No) 103-23-1 (EC no) 203-090-1	0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400
Bis(2-ethylhexyl) phthalate (Component) substance listed as REACH Candidate (Bis (2-ethyl(hexyl)phthalate) (DEHP)) substance listed in REACH Annex XIV (Bis(2-ethylhexyl) phthalate (DEHP))	(CAS No) 117-81-7 (EC no) 204-211-0 (EC index no) 607-317-00-9	0.1	Repr. 1B, H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-bromodiphenyl ether (Component)	(CAS No) 101-55-3 (EC no) 202-952-4	0.1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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
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
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
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-Chlorodiphenyl ether (Component)	(CAS No) 7005-72-3 (EC no) 230-281-7	0.1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
chrysene (Component)	(CAS No) 218-01-9 (EC no) 205-923-4 (EC index no) 601-048-00-0	0.1	Muta. 2, H341 Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
dibenz(a,h)anthracene (Component)	(CAS No) 53-70-3 (EC no) 200-181-8 (EC index no) 601-041-00-2	0.1	Carc. 1B, H350 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
dibenzofuran (Component)	(CAS No) 132-64-9 (EC no) 205-071-3	0.1	Aquatic Chronic 2, H411

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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
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
2,4-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
dibutyl phthalate (Component) substance listed as REACH Candidate (Dibutyl phthalate (DBP)) substance listed in REACH Annex XIV (Dibutyl phthalate (DBP))	(CAS No) 84-74-2 (EC no) 201-557-4 (EC index no) 607-318-00-4	0.1	Repr. 1B, H360D Aquatic Acute 1, H400 Aquatic Chronic 2, H411
1,2-dinitrobenzene (Component)	(CAS No) 528-29-0 (EC no) 208-431-8 (EC index no) 609-004-00-2	0.1	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,3-dinitrobenzene (Component)	(CAS No) 99-65-0 (EC no) 202-776-8 (EC index no) 609-004-00-2	0.1	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,4-dinitrobenzene (Component)	(CAS No) 100-25-4 (EC no) 202-833-7 (EC index no) 609-004-00-2	0.1	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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
2,4-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
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
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 2, H411
N-nitrosodiphenylamine (Component)	(CAS No) 86-30-6 (EC no) 201-663-0	0.1	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Chronic 2, H411
fluoranthene (Component)	(CAS No) 206-44-0 (EC no) 205-912-4	0.1	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)

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fluorene (Component)	(CAS No) 86-73-7 (EC no) 201-695-5	0.1	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 (M=10) Aquatic Chronic 1, H410 (M=10)
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 (M=10) Aquatic Chronic 1, H410 (M=10)
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)
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
indeno(1,2,3-cd)pyrene (Component)	(CAS No) 193-39-5 (EC no) 205-893-2	0.1	Carc. 1B, H350
1-methylnaphthalene (Component)	(CAS No) 90-12-0 (EC no) 201-966-8	0.1	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411
2-methylnaphthalene (Component)	(CAS No) 91-57-6 (EC no) 202-078-3	0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
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. 4 (Dermal), H311 Skin Corr. 1B, H314
naphthalene (Component)	(CAS No) 91-20-3 (EC no) 202-049-5 (EC index no) 601-052-00-2	0.1	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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
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
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
nitrobenzene (Component)	(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
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
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. 2 (Oral), H300 Acute Tox. 2 (Dermal), H310 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)

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phenanthrene (Component)	(CAS No) 85-01-8 (EC no) 201-581-5	0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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 Aquatic Chronic 2, H411
pyrene (Component)	(CAS No) 129-00-0 (EC no) 204-927-3	0.1	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	0.1	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332
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
2,3,5,6-tetrachlorophenol (Component)	(CAS No) 935-95-5 (EC no) 213-310-8	0.1	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400
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
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
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 (M=10) Aquatic Chronic 1, H410 (M=10)
di-n-octyl phthalate	(CAS No) 117-84-0 (EC no) 204-214-7	0.1	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	0.05	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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	0.05	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314
Name	Product identifier	Specific concentration limits	
methanol	(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	

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Name	Product identifier	Specific concentration limits
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

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 to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse. Gently wash with plenty of soap and water.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor/physician if you feel unwell.

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

Symptoms/injuries after inhalation	: May cause cancer by inhalation.
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.
Symptoms/injuries 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

SECTION 5: Firefighting measures

5.1. Extinguishing media

suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
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. 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. Avoid (reject) fire-fighting water to enter 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.
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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	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
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6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion.
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- 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 naked lights. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. In case of leaking gas fire, eliminate all ignition sources if safe to do so. 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 products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

benzene (71-43-2)		
USA OSHA	OSHA PEL (TWA) (ppm)	10 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	25 ppm

1,4-dichlorobenzene (106-46-7)		
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

8.2. Exposure controls

- Appropriate engineering controls : Either local exhaust or general room ventilation is usually required.
- Personal protective equipment : Avoid all unnecessary exposure. Wash ... thoroughly after handling. 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. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

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

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Self 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	: 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

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

Not established.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed. Toxic in contact with skin. Harmful if inhaled.

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ATE (oral)	500.000 mg/kg body weight
ATE (dermal)	300.000 mg/kg body weight
ATE (gases)	4500.000 ppmV/4h
ATE (vapors)	11.000 mg/l/4h
ATE (dust, mist)	1.500 mg/l/4h

di-n-octyl phthalate (117-84-0)	
LD50 oral rat	47000 mg/kg (Rat)
ATE (oral)	47000.000 mg/kg body weight

benzene (71-43-2)	
LD50 oral rat	> 930 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; > 2000 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	> 8240 mg/kg (Rabbit; Experimental value; 21 CFR 191.10; > 9.4; Rabbit)
LC50 inhalation rat (mg/l)	43.767 mg/l/4h (Rat; Experimental value)
LC50 inhalation rat (ppm)	13700 ppm/4h (Rat; Experimental value)
ATE (gases)	13700.000 ppmV/4h
ATE (vapors)	43.767 mg/l/4h
ATE (dust, mist)	43.767 mg/l/4h

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 (oral)	100.000 mg/kg body weight
ATE (dermal)	300.000 mg/kg body weight
ATE (gases)	700.000 ppmV/4h
ATE (vapors)	3.000 mg/l/4h

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methanol (67-56-1)	
ATE (dust, mist)	0.500 mg/l/4h
acenaphthene (83-32-9)	
LD50 oral rat	> 5000 mg/kg (Rat)
acenaphthylene (208-96-8)	
ATE (dermal)	5.000 mg/kg body weight
anthracene (120-12-7)	
LD50 oral rat	> 16000 mg/kg (Rat)
azobenzene (103-33-3)	
LD50 oral rat	1000 mg/kg (Rat; Literature study)
ATE (oral)	1000.000 mg/kg body weight
ATE (gases)	4500.000 ppmV/4h
ATE (vapors)	11.000 mg/l/4h
ATE (dust, mist)	1.500 mg/l/4h
benzyl butyl phthalate (85-68-7)	
LD50 oral rat	2330 mg/kg (Rat)
LD50 dermal rat	6700 mg/kg (Rat)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 6.7 mg/l/4h (Rat)
ATE (oral)	2330.000 mg/kg body weight
ATE (dermal)	6700.000 mg/kg body weight
bis(2-chloroethoxy) methane (111-91-1)	
LD50 oral rat	65 mg/kg (Rat)
LD50 dermal rat	1071 mg/kg (Rat)
ATE (oral)	65.000 mg/kg body weight
ATE (dermal)	1071.000 mg/kg body weight
bis(2-chloroethyl) ether (111-44-4)	
LC50 inhalation rat (mg/l)	0.33 mg/l/4h (Rat)
ATE (oral)	5.000 mg/kg body weight
ATE (dermal)	5.000 mg/kg body weight
ATE (gases)	100.000 ppmV/4h
ATE (vapors)	0.330 mg/l/4h
ATE (dust, mist)	0.330 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 (oral)	240.000 mg/kg body weight
ATE (dermal)	3300.000 mg/kg body weight
bis(2-ethylhexyl)adipate (103-23-1)	
LD50 oral rat	9110 mg/kg (Rat)
LD50 dermal rabbit	8410 mg/kg (Rabbit)
ATE (oral)	9110.000 mg/kg body weight
ATE (dermal)	8410.000 mg/kg body weight
Bis(2-ethylhexyl) phthalate (117-81-7)	
LD50 oral rat	30000 mg/kg (Rat)
LD50 dermal rabbit	25000 mg/kg (Rabbit; Experimental value; 19800 mg/kg bodyweight; Rabbit)
LC50 inhalation rat (mg/l)	> 10.6 mg/l/4h (Rat)
ATE (oral)	30000.000 mg/kg body weight
ATE (dermal)	25000.000 mg/kg body weight
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)

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4-chloroaniline (106-47-8)	
LC50 inhalation rat (mg/l)	2.34 mg/l/4h (Rat)
ATE (oral)	100.000 mg/kg body weight
ATE (dermal)	360.000 mg/kg body weight
ATE (gases)	700.000 ppmV/4h
ATE (vapors)	2.340 mg/l/4h
ATE (dust, mist)	2.340 mg/l/4h

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 (oral)	1194.000 mg/kg body weight
ATE (dermal)	1100.000 mg/kg body weight

2-chlorophenol (95-57-8)	
LD50 oral rat	670 mg/kg body weight (Rat; Literature study)
ATE (oral)	670.000 mg/kg body weight
ATE (dermal)	1100.000 mg/kg body weight
ATE (gases)	4500.000 ppmV/4h
ATE (vapors)	11.000 mg/l/4h
ATE (dust, mist)	1.500 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 (oral)	500.000 mg/kg body weight
ATE (vapors)	9.500 mg/l/4h
ATE (dust, mist)	9.500 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 (oral)	580.000 mg/kg body weight

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)

2,4-dichlorophenol (120-83-2)	
LD50 dermal rat	780 mg/kg body weight (Rat; Weight of evidence; OECD 402: Acute Dermal Toxicity)
ATE (oral)	500.000 mg/kg body weight
ATE (dermal)	780.000 mg/kg body weight

2,4-Dimethylphenol (105-67-9)	
ATE (oral)	100.000 mg/kg body weight
ATE (dermal)	300.000 mg/kg body weight

dibutyl phthalate (84-74-2)	
LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	> 20900 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 15 mg/l/4h (Rat)

1,2-dinitrobenzene (528-29-0)	
LD50 oral rat	< 50 mg/kg (Rat)
ATE (oral)	5.000 mg/kg body weight
ATE (dermal)	5.000 mg/kg body weight
ATE (gases)	100.000 ppmV/4h
ATE (vapors)	0.500 mg/l/4h
ATE (dust, mist)	0.050 mg/l/4h

1,3-dinitrobenzene (99-65-0)	
LD50 oral rat	60 mg/kg (Rat)
LD50 dermal rat	1200 mg/kg (Rat)
ATE (oral)	5.000 mg/kg body weight

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1,3-dinitrobenzene (99-65-0)	
ATE (dermal)	5.000 mg/kg body weight
ATE (gases)	100.000 ppmV/4h
ATE (vapors)	0.500 mg/l/4h
ATE (dust, mist)	0.050 mg/l/4h

1,4-dinitrobenzene (100-25-4)	
ATE (oral)	5.000 mg/kg body weight
ATE (dermal)	5.000 mg/kg body weight
ATE (gases)	100.000 ppmV/4h
ATE (vapors)	0.500 mg/l/4h
ATE (dust, mist)	0.050 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)
ATE (oral)	7.000 mg/kg body weight
ATE (dermal)	5.000 mg/kg body weight
ATE (gases)	100.000 ppmV/4h
ATE (vapors)	0.500 mg/l/4h
ATE (dust, mist)	0.050 mg/l/4h

2,4-dinitrophenol (51-28-5)	
LD50 oral rat	30 mg/kg (Rat)
ATE (oral)	30.000 mg/kg body weight
ATE (dermal)	300.000 mg/kg body weight
ATE (gases)	700.000 ppmV/4h
ATE (vapors)	3.000 mg/l/4h
ATE (dust, mist)	0.500 mg/l/4h

2,4-dinitrotoluene (121-14-2)	
ATE (oral)	100.000 mg/kg body weight
ATE (dermal)	300.000 mg/kg body weight
ATE (gases)	700.000 ppmV/4h
ATE (vapors)	3.000 mg/l/4h
ATE (dust, mist)	0.500 mg/l/4h

2,6-dinitrotoluene (606-20-2)	
LD50 oral rat	177 mg/kg (Rat)
ATE (oral)	177.000 mg/kg body weight
ATE (dermal)	300.000 mg/kg body weight
ATE (gases)	700.000 ppmV/4h
ATE (vapors)	3.000 mg/l/4h
ATE (dust, mist)	0.500 mg/l/4h

N-nitrosodiphenylamine (86-30-6)	
LD50 oral rat	1650 mg/kg (Rat)
LD50 dermal rabbit	> 7940 mg/kg (Rabbit)
ATE (oral)	1650.000 mg/kg body weight

fluoranthene (206-44-0)	
LD50 oral rat	2000 mg/kg (Rat)
LD50 dermal rabbit	3180 mg/kg (Rabbit)
ATE (oral)	2000.000 mg/kg body weight
ATE (dermal)	3180.000 mg/kg body weight

hexachlorobenzene (118-74-1)	
LD50 oral rat	10000 mg/kg (Rat)
ATE (oral)	10000.000 mg/kg body weight

hexachlorobuta-1,3-diene (87-68-3)	
LD50 oral rat	90 mg/kg (Rat)
LD50 dermal rabbit	1211 mg/kg (Rabbit)
ATE (oral)	90.000 mg/kg body weight
ATE (dermal)	1211.000 mg/kg body weight

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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 (oral)	315.000 mg/kg body weight
ATE (dermal)	200.000 mg/kg body weight
ATE (gases)	100.000 ppmV/4h
ATE (vapors)	0.018 mg/l/4h
ATE (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 (oral)	4460.000 mg/kg body weight
ATE (dermal)	32000.000 mg/kg body weight
1-methylnaphthalene (90-12-0)	
LD50 oral rat	1840 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit; Literature study)
ATE (oral)	1840.000 mg/kg body weight
2-methylnaphthalene (91-57-6)	
LD50 oral rat	1630 mg/kg (Rat)
ATE (oral)	1630.000 mg/kg body weight
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 (oral)	121.000 mg/kg body weight
ATE (dermal)	620.000 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 (oral)	242.000 mg/kg body weight
ATE (dermal)	300.000 mg/kg body weight
4-Methylphenol (106-44-5)	
LD50 oral rat	207 mg/kg (Rat)
LD50 dermal rat	750 mg/kg (Rat)
LD50 dermal rabbit	301 mg/kg (Rabbit)
ATE (oral)	207.000 mg/kg body weight
ATE (dermal)	301.000 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 (oral)	500.000 mg/kg body weight
2-Nitroaniline (88-74-4)	
ATE (oral)	100.000 mg/kg body weight
ATE (dermal)	300.000 mg/kg body weight
ATE (gases)	700.000 ppmV/4h
ATE (vapors)	3.000 mg/l/4h
ATE (dust, mist)	0.500 mg/l/4h
3-Nitroaniline (99-09-2)	
LD50 oral rat	535 mg/kg (Rat)
ATE (oral)	100.000 mg/kg body weight
ATE (dermal)	300.000 mg/kg body weight

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3-Nitroaniline (99-09-2)	
ATE (gases)	700.000 ppmV/4h
ATE (vapors)	3.000 mg/l/4h
ATE (dust, mist)	0.500 mg/l/4h

4-Nitroaniline (100-01-6)	
ATE (oral)	100.000 mg/kg body weight
ATE (dermal)	300.000 mg/kg body weight
ATE (gases)	700.000 ppmV/4h
ATE (vapors)	3.000 mg/l/4h
ATE (dust, mist)	0.500 mg/l/4h

nitrobenzene (98-95-3)	
LD50 oral rat	640 mg/kg (Rat)
ATE (oral)	100.000 mg/kg body weight
ATE (dermal)	300.000 mg/kg body weight
ATE (gases)	700.000 ppmV/4h
ATE (vapors)	3.000 mg/l/4h
ATE (dust, mist)	0.500 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 (oral)	37.000 mg/kg body weight
ATE (gases)	78.000 ppmV/4h
ATE (vapors)	0.240 mg/l/4h
ATE (dust, mist)	0.240 mg/l/4h

N-Nirosodi-n-propylamine (621-64-7)	
LD50 oral rat	480 mg/kg (Rat)
ATE (oral)	480.000 mg/kg body weight

2,3,4,5,6-pentachlorophenol (87-86-5)	
LD50 oral rat	27 mg/kg (Rat)
LD50 dermal rat	96 mg/kg (Rat)
LD50 dermal rabbit	501 mg/kg (Rabbit)
ATE (oral)	27.000 mg/kg body weight
ATE (dermal)	96.000 mg/kg body weight
ATE (gases)	100.000 ppmV/4h
ATE (vapors)	0.500 mg/l/4h
ATE (dust, mist)	0.050 mg/l/4h

phenanthrene (85-01-8)	
LD50 oral rat	1800 mg/kg (Rat)
ATE (oral)	1800.000 mg/kg body weight

phenol (108-95-2)	
LD50 oral rat	317 - 650 mg/kg (Rat)
LD50 dermal rat	669 mg/kg (Rat; Literature study)
LD50 dermal rabbit	850 - 1400 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	0.32 mg/l/4h (Rat; Literature study)
ATE (oral)	100.000 mg/kg body weight
ATE (dermal)	669.000 mg/kg body weight
ATE (gases)	700.000 ppmV/4h
ATE (vapors)	0.320 mg/l/4h
ATE (dust, mist)	0.320 mg/l/4h

pyrene (129-00-0)	
LD50 oral rat	2700 mg/kg (Rat)
ATE (oral)	2700.000 mg/kg body weight

pyridine (110-86-1)	
LD50 oral rat	> 891 mg/kg (Rat)
LD50 dermal rabbit	1120 mg/kg (Rabbit)

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pyridine (110-86-1)	
ATE (oral)	500.000 mg/kg body weight
ATE (dermal)	1120.000 mg/kg body weight
ATE (gases)	4500.000 ppmV/4h
ATE (vapors)	11.000 mg/l/4h
ATE (dust, mist)	1.500 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 (oral)	140.000 mg/kg body weight
ATE (dermal)	485.000 mg/kg body weight

2,3,5,6-tetrachlorophenol (935-95-5)	
LD50 oral rat	109 mg/kg (Rat)
ATE (oral)	109.000 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 (oral)	756.000 mg/kg body weight
ATE (dermal)	6139.000 mg/kg body weight

2,4,5-trichlorophenol (95-95-4)	
LD50 oral rat	820 mg/kg (Rat)
ATE (oral)	820.000 mg/kg body weight

2,4,6-trichlorophenol (88-06-2)	
LD50 oral rat	820 mg/kg (Rat; Literature study)
ATE (oral)	820.000 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)

Skin corrosion/irritation	: Causes skin irritation. Based on available data, the classification criteria are not met
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
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 damage to organs.
Specific target organ toxicity (repeated exposure)	: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Harmful if swallowed. Toxic in contact with skin.

SECTION 12: Ecological information

12.1. Toxicity

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

di-n-octyl phthalate (117-84-0)	
LC50 fish 1	6.18 mg/l (168 h; Lepomis sp.)
LC50 fish 2	0.69 mg/l (168 h; Ictalurus punctatus)

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benzene (71-43-2)	
LC50 fish 1	5.3 mg/l 96 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>)
EC50 Daphnia 1	18 mg/l (24 h; <i>Daphnia magna</i>)
LC50 fish 2	15.1 mg/l (96 h; <i>Pimephales promelas</i>)
EC50 Daphnia 2	10 mg/l (48 h; <i>Daphnia magna</i>)
TLM fish 1	22.5 mg/l (96 h; <i>Lepomis macrochirus</i> ; Soft water)
TLM fish 2	32 mg/l (96 h; <i>Pimephales promelas</i> ; Hard water)
Threshold limit algae 1	100 mg/l (72 h; <i>Pseudokirchneriella subcapitata</i> ; GLP)
Threshold limit algae 2	50 mg/l (24 h; <i>Phaeodactylum</i> ; Photosynthesis)
methanol (67-56-1)	
LC50 fish 1	15400 mg/l (96 h; <i>Lepomis macrochirus</i> ; Lethal)
EC50 Daphnia 1	> 10000 mg/l (48 h; <i>Daphnia magna</i> ; Lethal)
LC50 fish 2	10800 mg/l 96 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>)
EC50 Daphnia 2	24500 mg/l (48 h; <i>Daphnia magna</i>)
Threshold limit other aquatic organisms 1	6600 mg/l (16 h; <i>Pseudomonas putida</i>)
Threshold limit algae 1	530 mg/l (192 h; <i>Microcystis aeruginosa</i>)
Threshold limit algae 2	8000 mg/l (168 h; <i>Scenedesmus quadricauda</i>)
acenaphthene (83-32-9)	
EC50 Daphnia 1	3.45 mg/l (48 h; <i>Daphnia magna</i>)
anthracene (120-12-7)	
LC50 fish 1	0.36 mg/l (24 h; <i>Pimephales promelas</i>)
EC50 Daphnia 1	0.754 mg/l (48 h; <i>Daphnia pulex</i> ; Locomotor effect)
LC50 fish 2	0.00127 mg/l (96 h; <i>Lepomis macrochirus</i>)
EC50 Daphnia 2	0.0012 mg/l (24 h; <i>Daphnia magna</i>)
Threshold limit algae 1	< 0.003 mg/l (22 h; <i>Selenastrum capricornutum</i>)
azobenzene (103-33-3)	
LC50 fish 1	< 1 mg/l (Pisces)
EC50 Daphnia 1	0.009 mg/l (504 h; <i>Daphnia magna</i> ; Reproduction)
EC50 Daphnia 2	5 mg/l (24 h; <i>Daphnia magna</i> ; Reproduction)
Threshold limit algae 1	2.5 mg/l (48 h; <i>Scenedesmus subspicatus</i> ; Growth)
benzo[a]anthracene (56-55-3)	
LC50 fish 1	0.0018 mg/l (65 h; <i>Pimephales promelas</i> ; Lethal)
EC50 Daphnia 1	0.01 mg/l (96 h; <i>Daphnia pulex</i> ; Static system)
Threshold limit algae 1	0.003 mg/l (Cyanophyta)
benzo[a]pyrene (50-32-8)	
LC50 fish 1	0.0056 mg/l (38 h; <i>Pimephales promelas</i> ; Lethal)
LC50 other aquatic organisms 1	> 6.7 mg/l (24 h; <i>Rana</i> sp.)
EC50 other aquatic organisms 1	0.005 - 4 mg/l (72 h; Chlorophyta; Growth)
LC50 fish 2	1.2 - 3.7 mg/l (24 h; <i>Poeciliopsis</i> sp.; Lethal)
Threshold limit other aquatic organisms 1	> 6.7 mg/l (24 h; <i>Rana</i> sp.)
Threshold limit algae 1	0.015 mg/l (72 h; <i>Selenastrum capricornutum</i> ; Growth)
Benzo(b)fluoranthene (205-99-2)	
LC50 fish 1	0.03 mg/l (96 h; <i>Pimephales promelas</i>)
Threshold limit algae 1	0.004 mg/l (Algae)
benzo[k]fluoranthene (207-08-9)	
LC50 fish 1	0.03 mg/l (96 h; <i>Pimephales promelas</i>)
Threshold limit algae 1	0.004 mg/l (Algae)
benzyl butyl phthalate (85-68-7)	
LC50 fish 1	1.5 mg/l (96 h; <i>Pimephales promelas</i> ; Measured concentration)
EC50 Daphnia 1	1.6 - 1.8 mg/l (48 h; <i>Daphnia magna</i>)
EC50 other aquatic organisms 1	0.64 mg/l (72 h; Diatomeae; Growth rate)
LC50 fish 2	0.82 mg/l (96 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>); Measured concentration)
EC50 Daphnia 2	0.97 mg/l (48 h; <i>Daphnia magna</i>)
Threshold limit algae 1	0.20 mg/l (72 h; Diatomeae; Growth rate)
Threshold limit algae 2	0.31 mg/l (72 h; <i>Scenedesmus subspicatus</i> ; Growth rate)

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bis(2-chloroethoxy) methane (111-91-1)	
LC50 fish 1	155 - 217 mg/l (96 h; Pimephales promelas; Static system)
EC50 Daphnia 1	175 - 231 mg/l (48 h; Daphnia magna)
bis(2-chloroethyl) ether (111-44-4)	
LC50 fish 1	610 mg/l (48 h; Oryzias latipes)
EC50 Daphnia 1	238 mg/l (48 h; Daphnia magna; Static system)
LC50 fish 2	600 mg/l (96 h; Lepomis macrochirus)
Bis(2-chloroisopropyl) ether (108-60-1)	
LC50 fish 1	71.2 mg/l (48 h; Oryzias latipes)
LC50 fish 2	> 40 mg/l (48 h; Cyprinus carpio)
bis(2-ethylhexyl)adipate (103-23-1)	
LC50 fish 1	54 - 150 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	> 500 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	> 500 mg/l (72 h; Scenedesmus subspicatus)
Bis(2-ethylhexyl) phthalate (117-81-7)	
Threshold limit algae 1	> 130 mg/l (72 h; Algae)
4-bromodiphenyl ether (101-55-3)	
LC50 fish 1	4.9 mg/l (96 h; Lepomis macrochirus; Static system)
EC50 Daphnia 1	0.36 mg/l (48 h; Daphnia magna; Static system)
carbazole (86-74-8)	
LC50 fish 1	2.45 mg/l (48 h; Oryzias latipes)
EC50 Daphnia 1	2.3 - 4.9 mg/l (48 h; Daphnia magna)
EC50 other aquatic organisms 1	6.7 mg/l (60 h; Protozoa)
LC50 fish 2	0.93 mg/l (96 h; Pimephales promelas)
4-chloroaniline (106-47-8)	
LC50 fish 1	2.0 mg/l (96 h; Lepomis macrochirus)
LC50 other aquatic organisms 1	10 - 100 mg/l
EC50 Daphnia 1	0.31 mg/l (48 h; Daphnia magna)
EC50 other aquatic organisms 1	2.4 mg/l (96 h; Algae)
LC50 fish 2	11 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	13 mg/l (24 h; Daphnia magna)
Threshold limit other aquatic organisms 1	10 - 100
Threshold limit algae 1	< 0.026 mg/l (Scenedesmus subspicatus; Growth)
4-chloro-3-methylphenol (59-50-7)	
LC50 fish 1	0.03 - 7.6 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	3.1 mg/l (96 h; Daphnia pulex)
LC50 fish 2	0.917 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	2 mg/l (48 h; Daphnia magna)
TLM fish 1	1.3 mg/l (24 h; Salmo trutta)
TLM fish 2	0.01 - 0.1,96 h; Pimephales promelas
Threshold limit algae 1	4.2 mg/l (72 h; Scenedesmus subspicatus)
2-chlorophenol (95-57-8)	
LC50 fish 1	2.6 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	7.4 mg/l (48 h; Daphnia magna)
LC50 fish 2	6.3 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 2	17.95 mg/l (24 h; Daphnia magna)
TLM fish 1	8 mg/l (96 h; Lepomis macrochirus)
TLM fish 2	2.6 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
Threshold limit other aquatic organisms 1	400 mg/l (Bacteria)
Threshold limit algae 1	10 mg/l (72 h; Chlorella sp.)
Threshold limit algae 2	70 mg/l (72 h; Algae; Photosynthesis)
4-Chlorodiphenyl ether (7005-72-3)	
LC50 fish 1	0.73 mg/l 96 h
chrysene (218-01-9)	
LC50 other aquatic organisms 1	> 6.7 mg/l (24 h; Rana sp.)

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chrysene (218-01-9)	
TLM other aquatic organisms 1	1 mg/l (96 h; Annelida)
Threshold limit other aquatic organisms 1	> 6.7 mg/l (24 h; Rana sp.)
Threshold limit algae 1	0.001 mg/l (Cyanophyta; Growth)
dibenz(a,h)anthracene (53-70-3)	
LC50 fish 1	0.01 mg/l (96 h; Pimephales promelas)
LC50 other aquatic organisms 1	< 83.5 mg/l (60 h; Protozoa)
EC50 other aquatic organisms 1	0.3 mg/l (148 h; Rhodophyta; Inhibitory)
TLM other aquatic organisms 1	> 1 ppm (96 h; Neanthes arenaceodentata)
Threshold limit other aquatic organisms 1	< 83.5 mg/l (60 h; Protozoa)
Threshold limit algae 1	0.001 mg/l (Algae)
dibenzofuran (132-64-9)	
LC50 fish 1	1.78 - 1.85 mg/l (96 h; Pimephales promelas; Static system)
LC50 fish 2	1.8 ppm (96 h; Cyprinodon variegatus)
Threshold limit other aquatic organisms 1	0.28 mg/l (Daphnia magna)
1,2-dichlorobenzene (95-50-1)	
LC50 fish 1	1.58 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Measured concentration)
EC50 Daphnia 1	0.78 - 1.7 mg/l (24 h; Daphnia magna)
EC50 other aquatic organisms 1	13.5 mg/l (48 h; Scenedesmus subspicatus; Growth)
LC50 fish 2	5.2 mg/l (96 h; Brachydanio rerio)
EC50 Daphnia 2	0.74 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	53 mg/l (192 h; Microcystis aeruginosa; Toxicity test)
Threshold limit algae 2	0.88 mg/l (96 h; Selenastrum capricornutum)
1,3-dichlorobenzene (541-73-1)	
LC50 fish 1	1.61 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	1.2 mg/l (48 h; Daphnia magna)
LC50 fish 2	4.0 - 9.1 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 2	4.2 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	32 mg/l (96 h; Selenastrum capricornutum)
Threshold limit algae 2	7.3 mg/l (96 h; Skeletonema costatum)
1,4-dichlorobenzene (106-46-7)	
LC50 fish 1	2.09 mg/l (96 h; Brachydanio rerio)
EC50 Daphnia 1	11 mg/l (48 h; Daphnia magna; Nominal concentration)
EC50 other aquatic organisms 1	28 mg/l (48 h; Scenedesmus subspicatus; Biomass)
LC50 fish 2	1.12 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	0.7 mg/l (48 h; Daphnia magna; Measured concentration)
TLM fish 1	880 mg/l 48 h; Salmo gairdneri (Oncorhynchus mykiss)
TLM fish 2	440 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
Threshold limit algae 1	16 mg/l (48 h; Scenedesmus subspicatus; Growth)
Threshold limit algae 2	13 mg/l (48 h; Scenedesmus subspicatus; Biomass)
2,4-dichlorophenol (120-83-2)	
LC50 fish 1	3.9 mg/l (96 h; Brachydanio rerio)
EC50 Daphnia 1	1.4 mg/l (48 h; Daphnia magna; Locomotor effect)
LC50 fish 2	2.6 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	1.3 - 5.1 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	2.0 mg/l (192 h; Microcystis aeruginosa)
Threshold limit algae 2	3.6 mg/l (168 h; Scenedesmus quadricauda)
2,4-Dimethylphenol (105-67-9)	
LC50 fish 1	7.8 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 1	2.1 mg/l (48 h; Daphnia magna; Static system)
LC50 fish 2	17 mg/l (96 h; Pimephales promelas)
TLM fish 1	30 mg/l (24 h; Carassius carassius)
TLM fish 2	13 mg/l (24 h; Tinca tinca)
Threshold limit algae 1	292.8 mg/l (48 h; Lemna sp.)
Threshold limit algae 2	32 mg/l (72 h; Algae)
dibutyl phthalate (84-74-2)	
LC50 fish 1	0.85 ppm (96 h; Lepomis macrochirus)

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dibutyl phthalate (84-74-2)	
EC50 Daphnia 1	17 mg/l (24 h; Daphnia magna)
EC50 other aquatic organisms 1	9 mg/l (48 h; Scenedesmus subspicatus; Growth rate)
LC50 fish 2	1.1 - 2.2 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	3.1 - 3.8 mg/l (48 h; Daphnia magna)
EC50 other aquatic organisms 2	1.2 mg/l (72 h; Scenedesmus subspicatus; Biomass)
TLM fish 1	1230 ppm (24 h; Lepomis macrochirus)
Threshold limit algae 1	0.5 mg/l (72 h; Scenedesmus subspicatus; Biomass)
Threshold limit algae 2	0.6 - 0.7, Skeletonema costatum; Growth rate

1,2-dinitrobenzene (528-29-0)	
LC50 fish 1	2 mg/l (6 h; Pisces; Lethal)
EC50 other aquatic organisms 1	9.4 mg/l (60 h; Protozoa)
LC50 fish 2	8 - 10 ppm (Pimephales promelas)

1,3-dinitrobenzene (99-65-0)	
LC50 fish 1	1.7 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	27.4 mg/l (48 h; Daphnia magna)
LC50 fish 2	1.44 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 2	71.7 mg/l (48 h; Daphnia magna)
Threshold limit other aquatic organisms 1	14 mg/l (16 h; Pseudomonas putida)
Threshold limit algae 1	0.70 mg/l (168 h; Scenedesmus quadricauda)
Threshold limit algae 2	0.97 mg/l (120 h; Selenastrum capricornutum)

1,4-dinitrobenzene (100-25-4)	
LC50 fish 1	0.6 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	450 mg/l (48 h; Daphnia magna)
LC50 fish 2	0.71 mg/l (96 h; Pisces)
Threshold limit algae 1	340 mg/l (72 h; Algae)

4,6-Dinitro-2-methylphenol (534-52-1)	
LC50 fish 1	0.066 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	0.145 mg/l (48 h; Daphnia magna; Toxicity test)
LC50 fish 2	0.36 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 2	8 mg/l (Daphnia magna)
Threshold limit algae 1	13 mg/l (168 h; Scenedesmus quadricauda)
Threshold limit algae 2	0.15 mg/l (192 h; Microcystis aeruginosa)

2,4-dinitrophenol (51-28-5)	
LC50 fish 1	0.62 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 1	4.39 mg/l (48 h; Daphnia magna; Toxicity test)
LC50 fish 2	1.16 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	6 mg/l (Daphnia magna)
TLM fish 1	1 - 10,96 h; Pisces
Threshold limit other aquatic organisms 1	20 mg/l (72 h; Protozoa; Toxicity test)
Threshold limit algae 1	16 mg/l (168 h; Scenedesmus quadricauda; Toxicity test)
Threshold limit algae 2	33 mg/l (192 h; Microcystis aeruginosa; Toxicity test)

2,4-dinitrotoluene (121-14-2)	
LC50 fish 1	31 - 75 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	26.2 - 38.3 mg/l (48 h; Daphnia magna)
LC50 fish 2	13.6 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
Threshold limit algae 1	0.32 mg/l (Scenedesmus pannonicus)
Threshold limit algae 2	1.9 mg/l (48 h; Scenedesmus subspicatus; Growth rate)

2,6-dinitrotoluene (606-20-2)	
LC50 fish 1	18.5 - 50 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	< 1.58 mg/l (48 h; Daphnia magna; Chronic)
EC50 other aquatic organisms 1	100 mg/l (24 h; Protozoa)
LC50 fish 2	25.1 mg/l (48 h; Leuciscus idus)
EC50 Daphnia 2	21.7 mg/l (Daphnia magna; Static system)
Threshold limit algae 1	0.5 mg/l (Microcystis aeruginosa)
Threshold limit algae 2	12 mg/l (168 h; Scenedesmus quadricauda)

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N-nitrosodiphenylamine (86-30-6)	
LC50 fish 1	6.4 mg/l (48 h; <i>Oryzias latipes</i> ; Static system)
EC50 Daphnia 1	7.8 mg/l (48 h; <i>Daphnia magna</i>)
LC50 fish 2	5.8 mg/l (96 h; <i>Lepomis macrochirus</i>)
fluoranthene (206-44-0)	
LC50 fish 1	0.0077 mg/l 96 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>)
EC50 Daphnia 1	< 0.1 mg/l (72 h; <i>Daphnia magna</i> ; Locomotor effect)
EC50 other aquatic organisms 1	45 mg/l (96 h; <i>Skeletonema costatum</i>)
LC50 fish 2	4 mg/l (96 h; <i>Lepomis macrochirus</i>)
EC50 Daphnia 2	0.78 mg/l (20 h; <i>Daphnia magna</i> ; Locomotor effect)
Threshold limit algae 1	54 mg/l (96 h; <i>Selenastrum capricornutum</i>)
fluorene (86-73-7)	
LC50 fish 1	3.17 mg/l (96 h; <i>Poecilia reticulata</i>)
EC50 Daphnia 1	0.212 mg/l (48 h; <i>Daphnia magna</i>)
LC50 fish 2	5.15 mg/l (48 h; <i>Oryzias latipes</i>)
Threshold limit algae 1	1.7 mg/l (<i>Chlorophyta</i>)
hexachlorobenzene (118-74-1)	
LC50 fish 1	12 mg/l (96 h; <i>Lepomis macrochirus</i> ; Hard water)
EC50 Daphnia 1	0.016 mg/l (336 h; <i>Daphnia magna</i>)
LC50 fish 2	2.30 mg/l 96 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>)
EC50 Daphnia 2	> 0.03 mg/l (24 h; <i>Daphnia magna</i>)
Threshold limit algae 1	0.1 mg/l (<i>Chlorophyta</i> ; Growth)
Threshold limit algae 2	0.018 mg/l (3 h; <i>Selenastrum capricornutum</i>)
hexachlorobuta-1,3-diene (87-68-3)	
LC50 fish 1	0.09 mg/l (96 h; <i>Pimephales promelas</i>)
LC50 other aquatic organisms 1	0.13 mg/l (96 h; <i>Asellus</i> sp.)
EC50 other aquatic organisms 1	0.87 mg/l (48 h; <i>Mollusca</i>)
LC50 fish 2	0.250 mg/l 96 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>)
EC50 other aquatic organisms 2	0.21 mg/l (96 h; <i>Lymnaea</i> sp.)
TLM fish 1	0.09 mg/l (96 h; <i>Carassius auratus</i>)
Threshold limit other aquatic organisms 1	0.13 mg/l (96 h; <i>Asellus</i> sp.; Toxicity test)
Threshold limit other aquatic organisms 2	> 8 mg/l (<i>Protozoa</i>)
Threshold limit algae 2	> 25 mg/l (<i>Scenedesmus quadricauda</i> ; Toxicity test)
Hexachlorocyclopentadiene (77-47-4)	
LC50 fish 1	0.007 mg/l (96 h; <i>Pimephales promelas</i> ; Measured concentration)
EC50 Daphnia 1	0.210 mg/l (24 h; <i>Daphnia magna</i> ; Measured concentration)
EC50 other aquatic organisms 1	0.19 mg/l (96 h; <i>Selenastrum capricornutum</i> ; Growth rate)
LC50 fish 2	0.13 mg/l (96 h; <i>Lepomis macrochirus</i> ; Nominal concentration)
EC50 Daphnia 2	0.009 mg/l (504 h; <i>Daphnia magna</i> ; Reproduction)
Threshold limit algae 1	< 0.03 mg/l (48 h; <i>Scenedesmus subspicatus</i> ; Growth rate)
hexachloroethane (67-72-1)	
LC50 fish 1	0.86 mg/l (96 h; <i>Lepomis macrochirus</i>)
EC50 Daphnia 1	1.4 mg/l (<i>Daphnia magna</i>)
LC50 fish 2	0.84 mg/l 96 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>)
Threshold limit algae 1	7.75 mg/l (96 h; Algae)
1-methylnaphthalene (90-12-0)	
LC50 fish 1	8.4 mg/l (48 h; <i>Salmo fario</i> ; Yearlings)
EC50 Daphnia 1	1.2 mg/l (48 h; <i>Daphnia magna</i>)
LC50 fish 2	9 mg/l (96 h; <i>Pimephales promelas</i>)
Threshold limit algae 1	1.71 - 5.12,3 h; <i>Chlorophyta</i>
Threshold limit algae 2	1200 µg/l (14 days; <i>Selenastrum capricornutum</i> ; Growth)
2-methylnaphthalene (91-57-6)	
LC50 fish 1	8 mg/l (96 h; <i>Oncorhynchus mykiss</i>)
LC50 other aquatic organisms 1	1.3 mg/l (96 h; <i>Cancer</i> sp.; Larvae)
LC50 fish 2	2.5 mg/l (48 h; <i>Pimephales promelas</i>)
Threshold limit other aquatic organisms 1	1.3 mg/l (96 h; <i>Cancer</i> sp.; Larvae)

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2-Methylphenol (95-48-7)	
LC50 fish 1	24 mg/l (96 h; Brachydanio rerio)
EC50 Daphnia 1	19 mg/l (24 h; Daphnia magna)
EC50 other aquatic organisms 1	65 mg/l (96 h; Selenastrum capricornutum)
LC50 fish 2	7.9 - 8.4 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	5 - 9.5 mg/l (48 h; Daphnia magna)
TLM fish 1	13.4 ppm (96 h; Pimephales promelas; Hard water)
TLM fish 2	20.8 mg/l (96 h; Lepomis macrochirus; Soft water)
Threshold limit algae 1	6.8 mg/l (192 h; Microcystis aeruginosa)
Threshold limit algae 2	11 mg/l (192 h; Scenedesmus quadricauda)

3-Methylphenol (108-39-4)	
LC50 fish 1	8.9 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	8.9 mg/l (24 h; Daphnia magna)
EC50 other aquatic organisms 1	0.78 mg/l (24 h; Nitrosomonas; Inhibitory)
LC50 fish 2	15.9 mg/l (96 h; Brachydanio rerio)
TLM fish 1	10 - 13.6,96 h; Lepomis macrochirus
TLM fish 2	24 mg/l (96 h; Gambusia affinis)
Threshold limit other aquatic organisms 1	53 mg/l (16 h; Pseudomonas putida)
Threshold limit algae 1	15 mg/l (192 h; Scenedesmus quadricauda)
Threshold limit algae 2	40 mg/l (96 h; Chlorophyta; Cell numbers)

4-Methylphenol (106-44-5)	
LC50 fish 1	19 mg/l (96 h; Pimephales promelas; Measured concentration)
LC50 other aquatic organisms 1	1 - 10 mg/l (96 h)
EC50 Daphnia 1	23 mg/l (48 h; Daphnia sp.; Measured concentration)
EC50 other aquatic organisms 1	7.8 mg/l (48 h; Scenedesmus subspicatus; Biomass)
LC50 fish 2	7.5 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	1.4 - 21.1 mg/l (48 h; Daphnia magna)
TLM fish 1	10 ppm (96 h; Lepomis macrochirus)
TLM fish 2	24 ppm (48 h; Gambusia affinis)
Threshold limit other aquatic organisms 1	1 - 10,96 h
Threshold limit algae 1	0.22 ppm (672 h; Potamogeton sp.; O2 evolution)
Threshold limit algae 2	21 mg/l (48 h; Scenedesmus subspicatus; Growth rate)

naphthalene (91-20-3)	
LC50 fish 1	1.99 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	2.16 mg/l (48 h; Daphnia magna)
EC50 other aquatic organisms 1	2.96 mg/l (4 h; Selenastrum capricornutum)
LC50 fish 2	0.11 mg/l (96 h; Oncorhynchus mykiss)
TLM fish 1	150 mg/l (96 h; Lepomis macrochirus; Cool water)
TLM fish 2	1.24 ppm (96 h; Oncorhynchus gorboscha)
Threshold limit algae 1	0.4 mg/l (72 h; Skeletonema costatum; Growth rate)

2-Nitroaniline (88-74-4)	
LC50 fish 1	17 mg/l (48 h; Oryzias latipes)
EC50 Daphnia 1	10 - 18 mg/l (48 h; Daphnia magna)
EC50 other aquatic organisms 1	116 mg/l (60 h; Protozoa; Growth)
LC50 fish 2	10 - 22 mg/l (96 h; Brachydanio rerio)

3-Nitroaniline (99-09-2)	
LC50 fish 1	96 mg/l (48 h; Oryzias latipes)
LC50 fish 2	134.31 mg/l (96 h; Pisces)

4-Nitroaniline (100-01-6)	
LC50 fish 1	106 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	24 mg/l (48 h; Daphnia magna)
LC50 fish 2	87.6 mg/l (96 h; Brachydanio rerio)
TLM fish 1	< 10 mg/l (Cyprinus carpio; Chronic)
Threshold limit other aquatic organisms 1	3.1 mg/l (Protozoa)
Threshold limit other aquatic organisms 2	4 mg/l (Pseudomonas putida)
Threshold limit algae 1	11 mg/l (192 h; Scenedesmus quadricauda; Biomass)
Threshold limit algae 2	0.35 mg/l (192 h; Microcystis aeruginosa)

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nitrobenzene (98-95-3)	
LC50 fish 1	4.3 mg/l (48 h; <i>Oryzias latipes</i>)
LC50 other aquatic organisms 1	10 - 100 ppm (96 h)
EC50 Daphnia 1	4 mg/l (24 h; <i>Daphnia magna</i>)
EC50 other aquatic organisms 1	10.3 mg/l (96 h; <i>Skeletonema</i>)
LC50 fish 2	92.2 mg/l (96 h; <i>Brachydanio rerio</i>)
TLM fish 1	20 - 24,6 h; Pisces; Soft water
TLM fish 2	90 - 100,6 h; Pisces; Hard water
Threshold limit other aquatic organisms 1	10 - 100,96 h
Threshold limit algae 1	33 mg/l (168 h; <i>Scenedesmus quadricauda</i>)
Threshold limit algae 2	1.9 mg/l (72 h; <i>Microcystis aeruginosa</i>)

N-Nitrosodimethylamine (62-75-9)	
LC50 fish 1	940 mg/l (96 h; <i>Pimephales promelas</i>)

2,3,4,5,6-pentachlorophenol (87-86-5)	
LC50 fish 1	0.052 mg/l 96 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>)
EC50 Daphnia 1	0.01 - 0.36 mg/l (48 h; <i>Daphnia magna</i>)
LC50 fish 2	0.45 mg/l (96 h; <i>Brachydanio rerio</i>)
EC50 Daphnia 2	0.41 mg/l (24 h; <i>Daphnia pulex</i>)
TLM fish 1	0.303 mg/l (30 h; <i>Lepomis macrochirus</i>)
TLM fish 2	0.22 mg/l (96 h; <i>Carassius auratus</i>)
Threshold limit algae 1	0.1 mg/l (96 h; <i>Scenedesmus pannonicus</i>)

phenanthrene (85-01-8)	
EC50 Daphnia 1	0.7 mg/l (48 h; <i>Daphnia pulex</i> ; Locomotor effect)
EC50 other aquatic organisms 1	6500 mg/l (3 h; <i>Chlorella vulgaris</i>)
EC50 Daphnia 2	0.35 mg/l (48 h; <i>Daphnia pulex</i>)
Threshold limit algae 1	0.9 mg/l (4 h; <i>Selenastrum capricornutum</i>)

phenol (108-95-2)	
LC50 fish 1	27.8 mg/l (96 h; <i>Brachydanio rerio</i>)
EC50 Daphnia 1	18 - 36 mg/l (48 h; <i>Daphnia pulex</i>)
LC50 fish 2	9.1 - 12.2 mg/l 96 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>)
EC50 Daphnia 2	6.6 mg/l (48 h; <i>Daphnia magna</i>)
TLM fish 1	39.2 mg/l (96 h; <i>Poecilia reticulata</i>)
TLM fish 2	5.7 mg/l (96 h; <i>Lepomis macrochirus</i>)
Threshold limit other aquatic organisms 1	64 mg/l (<i>Pseudomonas putida</i>)
Threshold limit algae 1	7.5 mg/l (192 h; <i>Scenedesmus quadricauda</i>)
Threshold limit algae 2	4.6 mg/l (192 h; <i>Microcystis aeruginosa</i>)

pyrene (129-00-0)	
LC50 fish 1	0.0256 mg/l (3.1 h; <i>Pimephales promelas</i>)
EC50 other aquatic organisms 1	1.6 mg/l (3 h; <i>Chlorella vulgaris</i>)
LC50 fish 2	0.0026 mg/l (96 h; <i>Gambusia affinis</i>)
TLM fish 1	0.0026 mg/l (96 h; <i>Gambusia affinis</i>)
Threshold limit algae 1	1.1 mg/l (3 h; <i>Chlamydomonas angulosa</i>)

pyridine (110-86-1)	
LC50 fish 1	4.6 mg/l 96 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>)
LC50 other aquatic organisms 1	1400 mg/l (48 h; <i>Bufo</i> sp.)
EC50 Daphnia 1	240 mg/l (24 h; <i>Daphnia magna</i>)
LC50 fish 2	26 mg/l (96 h; <i>Cyprinus carpio</i>)
EC50 Daphnia 2	495 mg/l (48 h; <i>Daphnia magna</i>)
TLM fish 1	1350 mg/l (24 h; <i>Gambusia affinis</i> ; Turbulent water)
TLM fish 2	1350 mg/l (96 h; Pisces)
TLM other aquatic organisms 1	100 - 1000,96 h
Threshold limit other aquatic organisms 1	1400 mg/l (48 h; <i>Bufo</i> sp.)
Threshold limit algae 1	28 mg/l (192 h; <i>Microcystis aeruginosa</i>)
Threshold limit algae 2	120 mg/l (168 h; <i>Scenedesmus quadricauda</i>)

2,3,4,6-tetrachlorophenol (58-90-2)	
LC50 fish 1	0.14 mg/l (96 h; <i>Lepomis macrochirus</i>)
EC50 Daphnia 1	0.01 mg/l (48 h; <i>Daphnia magna</i>)

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2,3,4,6-tetrachlorophenol (58-90-2)	
LC50 fish 2	0.62 mg/l (96 h; <i>Oryzias latipes</i>)
EC50 Daphnia 2	0.29 mg/l (48 h; <i>Daphnia magna</i>)
Threshold limit algae 1	1.4 mg/l (<i>Lemna</i> sp.)
Threshold limit algae 2	1.3 mg/l (96 h; <i>Selenastrum capricornutum</i> ; Growth)

2,3,5,6-tetrachlorophenol (935-95-5)	
LC50 fish 1	0.17 mg/l (96 h; <i>Lepomis macrochirus</i> ; Static system)
EC50 Daphnia 1	0.57 mg/l (48 h; <i>Daphnia magna</i>)
EC50 other aquatic organisms 1	1.01 mg/l (48 h; Protozoa; Growth)
LC50 fish 2	1.37 ppm (24 h; <i>Poecilia reticulata</i> ; pH > 7)

1,2,4-trichlorobenzene (120-82-1)	
LC50 fish 1	1.32 mg/l 96 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>)
EC50 Daphnia 1	0.86 mg/l (48 h; <i>Daphnia magna</i> ; Static system)
LC50 fish 2	6.57 mg/l (96 h; <i>Brachydanio rerio</i>)
EC50 Daphnia 2	1.2 - 1.4 mg/l (24 h; <i>Daphnia magna</i>)
TLM fish 1	1 - 10,96 h; Pisces
TLM other aquatic organisms 1	1 - 10,96 h
Threshold limit algae 1	6.5 mg/l (Algae; Toxicity test)

2,4,5-trichlorophenol (95-95-4)	
LC50 fish 1	0.45 mg/l (96 h; <i>Lepomis macrochirus</i>)
EC50 Daphnia 1	0.9 - 2.7 mg/l (48 h; <i>Daphnia magna</i>)
LC50 fish 2	0.9 - 1.27 mg/l (96 h; <i>Pimephales promelas</i>)
TLM fish 1	3.2 ppm (24 h; Pisces)
Threshold limit algae 1	1 mg/l (72 h; <i>Chlorella</i> sp.)

2,4,6-trichlorophenol (88-06-2)	
LC50 fish 1	0.73 mg/l 96 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>)
EC50 Daphnia 1	0.8 - 16 mg/l (24 h; <i>Daphnia magna</i> ; Static system)
EC50 other aquatic organisms 1	0.03 mg/l (148 h; <i>Lemna</i> sp.; Reproduction)
LC50 fish 2	0.32 mg/l (96 h; <i>Lepomis macrochirus</i>)
EC50 Daphnia 2	0.69 mg/l (48 h; <i>Daphnia magna</i>)
TLM fish 1	0.1 - 1.0,96 h; <i>Pimephales promelas</i>
Threshold limit algae 1	< 1 mg/l (72 h; <i>Chlorella</i> sp.; Growth rate)
Threshold limit algae 2	3.5 mg/l (96 h; <i>Selenastrum capricornutum</i> ; Growth rate)

Methylene Chloride (75-09-2)	
LC50 fish 1	193 mg/l (96 h; <i>Pimephales promelas</i> ; Flow-through system)
EC50 Daphnia 1	168.2 mg/l (48 h; <i>Daphnia magna</i>)
LC50 fish 2	220 mg/l (96 h; <i>Lepomis macrochirus</i> ; Flow-through system)
Threshold limit algae 1	1450 mg/l (192 h; <i>Scenedesmus quadricauda</i> ; Cell numbers)
Threshold limit algae 2	550 mg/l (192 h; <i>Microcystis aeruginosa</i>)

12.2. Persistence and degradability

8270 Calibration Standard	
Persistence and degradability	May cause long-term adverse effects in the environment.

di-n-octyl phthalate (117-84-0)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water.

benzene (71-43-2)	
Persistence and degradability	Readily biodegradable in water. Ozonation in water. Forming sediments in water. Biodegradable in the soil. Low potential for adsorption in soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	2.18 g O ² /g substance
Chemical oxygen demand (COD)	2.15 g O ² /g substance
ThOD	3.10 g O ² /g substance
BOD (% of ThOD)	0.70 % ThOD

methanol (67-56-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the 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

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methanol (67-56-1)	
BOD (% of ThOD)	0.8 % ThOD
acenaphthene (83-32-9)	
Persistence and degradability	Not readily biodegradable in water. Adsorbs into the soil.
acenaphthylene (208-96-8)	
Persistence and degradability	Biodegradability in soil: no data available.
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 % ThOD
azobenzene (103-33-3)	
Persistence and degradability	Not readily biodegradable in water. No (test)data on mobility of the substance available.
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(b)fluoranthene (205-99-2)	
Persistence and degradability	Not readily biodegradable in water. Photolysis in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
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	2.90 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
benzyl butyl phthalate (85-68-7)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Biodegradability in soil: no data available. Adsorbs into the soil.
bis(2-chloroethoxy) methane (111-91-1)	
Persistence and degradability	Not readily biodegradable in water.
ThOD	1.2 g O ² /g substance
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.
bis(2-ethylhexyl)adipate (103-23-1)	
Persistence and degradability	Readily biodegradable in water.
Bis(2-ethylhexyl) phthalate (117-81-7)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil. Low potential for mobility in soil. Photolysis in the air.
4-bromodiphenyl ether (101-55-3)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water.
carbazole (86-74-8)	
Persistence and degradability	Not readily biodegradable in water.

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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.
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.
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.
dibenzofuran (132-64-9)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water.
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 % ThOD
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.
ThOD	1.52 g O ² /g substance
BOD (% of ThOD)	0.65 % ThOD
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.
dibutyl phthalate (84-74-2)	
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)	0.43 g O ² /g substance
ThOD	2.24 g O ² /g substance
BOD (% of ThOD)	0.19 % ThOD
1,2-dinitrobenzene (528-29-0)	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.
1,3-dinitrobenzene (99-65-0)	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.
1,4-dinitrobenzene (100-25-4)	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.
4,6-Dinitro-2-methylphenol (534-52-1)	
Persistence and degradability	Not readily biodegradable in water.
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.
N-nitrosodiphenylamine (86-30-6)	
Persistence and degradability	Not readily biodegradable in water. Biodegradability in soil: no data available.

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fluoranthene (206-44-0)	
Persistence and degradability	Forming sediments in water.
fluorene (86-73-7)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.
ThOD	2.02 g O ² /g substance
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.
indeno(1,2,3-cd)pyrene (193-39-5)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
ThOD	2.90 g O ² /g substance
1-methylnaphthalene (90-12-0)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water.
2-methylnaphthalene (91-57-6)	
Persistence and degradability	Inherently biodegradable. 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 % ThOD
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 % ThOD
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 % ThOD
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
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.

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nitrobenzene (98-95-3)	
Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil.
Biochemical oxygen demand (BOD)	0 g O ² /g substance
ThOD	1.95 g O ² /g substance
BOD (% of ThOD)	0 % ThOD
N-Nitrosodimethylamine (62-75-9)	
Persistence and degradability	Not readily biodegradable in water. Photolysis in water. Photolysis in the air.
2,3,4,5,6-pentachlorophenol (87-86-5)	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.
phenanthrene (85-01-8)	
Persistence and degradability	Biodegradable in water. Forming sediments in water. Adsorbs into 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. No (test)data on mobility of the substance available.
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 % ThOD
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 % ThOD
2,3,4,6-tetrachlorophenol (58-90-2)	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.
2,3,5,6-tetrachlorophenol (935-95-5)	
Persistence and degradability	Not readily biodegradable in water. Biodegradability in soil: no data available.
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 % ThOD
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	
8270 Calibration Standard	
Bioaccumulative potential	Not established.
di-n-octyl phthalate (117-84-0)	
BCF fish 1	116 (Gambusia affinis)
BCF fish 2	9400 (792 h; Gambusia affinis; Larvae)
BCF other aquatic organisms 1	2600 (792 h; Daphnia magna)
BCF other aquatic organisms 2	28500 (792 h; Algae)
Log Pow	4.6 - 9.2
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).

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benzene (71-43-2)	
BCF fish 1	19 <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>)
BCF fish 2	< 10 (3 days; <i>Leuciscus idus</i>)
BCF other aquatic organisms 1	30 (24 h; <i>Chlorella</i> sp.; Fresh weight)
Log Pow	2.13 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
methanol (67-56-1)	
BCF fish 1	< 10 (<i>Leuciscus idus</i>)
Log Pow	-0.77 (Experimental value; Other)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
acenaphthene (83-32-9)	
BCF fish 1	257 - 1270 (<i>Cyprinus carpio</i> ; Test duration: 8 weeks)
BCF fish 2	387 (28 days; <i>Lepomis macrochirus</i>)
Log Pow	3.92 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation ($500 \leq \text{BCF} \leq 5000$).
acenaphthylene (208-96-8)	
Bioaccumulative potential	No bioaccumulation data available.
anthracene (120-12-7)	
BCF fish 1	903 - 2820 (<i>Cyprinus carpio</i> ; Test duration: 8 weeks)
BCF fish 2	9200 <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>)
BCF other aquatic organisms 1	7770 (24 h; <i>Chlorella</i> sp.; Fresh weight)
BCF other aquatic organisms 2	10500 (<i>Selenastrum capricornutum</i>)
Log Pow	4.5
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
azobenzene (103-33-3)	
Log Pow	3.82
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
benzo[a]anthracene (56-55-3)	
BCF fish 1	350 (72 h; <i>Leuciscus idus</i>)
BCF other aquatic organisms 1	1106 (24 h; <i>Daphnia pulex</i>)
BCF other aquatic organisms 2	18000 (192 h; <i>Crassostrea</i> sp.)
Log Pow	5.61 - 5.79
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
benzo[a]pyrene (50-32-8)	
BCF fish 1	480 (72 h; <i>Leuciscus idus</i>)
BCF fish 2	70.7 (168 h; <i>Salmo salar</i> ; Eggs)
BCF other aquatic organisms 1	3000 (192 h; <i>Crassostrea</i> sp.)
BCF other aquatic organisms 2	1.5 (24 h; <i>Daphnia magna</i>)
Log Pow	5.97 - 6.06
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
Benzo(b)fluoranthene (205-99-2)	
BCF other aquatic organisms 1	2800 (168 h; Lamellibranchiata)
Log Pow	6.57
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 (Pisces; QSAR)
BCF other aquatic organisms 1	0.0013 mg/kg (Algae; Dry weight)
BCF other aquatic organisms 2	37000 (<i>Mytilus edulis</i>)
Log Pow	6.84
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
benzyl butyl phthalate (85-68-7)	
BCF fish 1	188 (408 h; <i>Lepomis macrochirus</i>)

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benzyl butyl phthalate (85-68-7)	
BCF fish 2	663 (504 h; <i>Lepomis macrochirus</i>)
BCF other aquatic organisms 1	26 - 270
Log Pow	3.57 - 5.8
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
bis(2-chloroethoxy) methane (111-91-1)	
Log Pow	1.3 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
bis(2-chloroethyl) ether (111-44-4)	
BCF fish 1	< 10 (<i>Cyprinus carpio</i> ; Test duration: 6 weeks)
BCF fish 2	10.96 (336 h; <i>Lepomis macrochirus</i>)
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, <i>Cyprinus carpio</i> ; Test duration: 6 weeks
Log Pow	2.48
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
bis(2-ethylhexyl)adipate (103-23-1)	
BCF fish 1	27 (672 h; <i>Lepomis macrochirus</i>)
Log Pow	8.1 (Calculated)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Bis(2-ethylhexyl) phthalate (117-81-7)	
BCF fish 1	1.3 - 29.7 (56 days; <i>Cyprinus carpio</i>)
BCF fish 2	155 - 886 (56 days; <i>Pimephales promelas</i>)
BCF other aquatic organisms 1	2600 (792 h; <i>Daphnia magna</i>)
BCF other aquatic organisms 2	538900 (792 h; Algae)
Log Pow	7.68 (Experimental value; Other)
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
4-bromodiphenyl ether (101-55-3)	
BCF fish 1	5690 (Pisces)
BCF other aquatic organisms 1	1300
Log Pow	4.28 - 5.243
Bioaccumulative potential	Bioaccumable.
carbazole (86-74-8)	
BCF fish 1	34 - 241 (<i>Cyprinus carpio</i> ; Test duration: 6 weeks)
BCF fish 2	500 (<i>Poecilia reticulata</i>)
BCF other aquatic organisms 1	115 (<i>Daphnia pulex</i>)
BCF other aquatic organisms 2	108 (24 h; <i>Daphnia magna</i>)
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 (72 h; <i>Leuciscus idus</i>)
BCF fish 2	0.8 - 1.7 (336 h; <i>Cyprinus carpio</i>)
BCF other aquatic organisms 1	260 (24 h; <i>Chlorella sp.</i> ; Fresh weight)
Log Pow	1.76 - 1.83
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
4-chloro-3-methylphenol (59-50-7)	
BCF fish 1	5.5 - 13 (<i>Cyprinus carpio</i> ; Test duration: 6 weeks)
Log Pow	2.78 - 3.10
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2-chlorophenol (95-57-8)	
BCF fish 1	214 (672 h; <i>Lepomis macrochirus</i>)
BCF fish 2	14 - 29 (6 weeks; <i>Cyprinus carpio</i>)
Log Pow	2.15 (Literature)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

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4-Chlorodiphenyl ether (7005-72-3)	
Log Pow	4.2
chrysene (218-01-9)	
BCF other aquatic organisms 1	4440 (Lamellibranchiata; Chronic)
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
dibenzofuran (132-64-9)	
BCF fish 1	2420 (Cyprinus carpio; Test duration: 8 weeks)
BCF fish 2	524 - 2420 (Poecilia reticulata; Test duration: 8 weeks)
Log Pow	4.12 - 5.16
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
1,2-dichlorobenzene (95-50-1)	
BCF fish 1	90 - 260 (Cyprinus carpio; Test duration: 8 weeks)
BCF fish 2	270 - 560 Salmo gairdneri (Oncorhynchus mykiss)
BCF other aquatic organisms 1	14791 (Algae)
BCF other aquatic organisms 2	28840 (Callinectes sapidus)
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 (Salmo gairdneri (Oncorhynchus mykiss); Chronic)
BCF fish 2	57 - 370 (8 weeks; Cyprinus carpio)
Log Pow	3.4 - 4.6
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
1,4-dichlorobenzene (106-46-7)	
BCF fish 1	100 (Cyprinus carpio; Chronic)
BCF fish 2	214 - 720 (Salmo gairdneri (Oncorhynchus mykiss); Chronic)
BCF other aquatic organisms 1	20 (Bacteria)
Log Pow	3.39 - 3.62 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
2,4-dichlorophenol (120-83-2)	
BCF fish 1	7.1 - 69 (8 weeks; Cyprinus carpio)
BCF fish 2	34 (25 h; Carassius auratus)
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 (672 h; Lepomis macrochirus; Fresh weight)
Log Pow	2.2 - 2.5
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
dibutyl phthalate (84-74-2)	
BCF fish 1	12 (Pimephales promelas)
BCF fish 2	117 (Lepomis macrochirus)
BCF other aquatic organisms 1	22 - 42 (Ostreidae)
BCF other aquatic organisms 2	5000 (72 h; Palaemonetes sp.)
Log Pow	3.23 - 5.6
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
1,2-dinitrobenzene (528-29-0)	
BCF fish 1	10 (Pisces; Test duration: 6 weeks)
Log Pow	1.58 - 1.69
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
1,3-dinitrobenzene (99-65-0)	
BCF fish 1	4.5 - 7.5 (72 h; Poecilia reticulata)
BCF fish 2	74.13 (Poecilia reticulata)
Log Pow	1.49 - 1.6

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1,3-dinitrobenzene (99-65-0)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
1,4-dinitrobenzene (100-25-4)	
BCF fish 1	5 (Pisces)
Log Pow	1.46 - 1.49
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
4,6-Dinitro-2-methylphenol (534-52-1)	
BCF fish 1	0.3 - 2.9 (Cyprinus carpio; Test duration: 6 weeks)
Log Pow	2.12 - 3.1
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2,4-dinitrophenol (51-28-5)	
BCF fish 1	< 3.7 (Cyprinus carpio; Chronic)
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 (336 h; Lepomis macrochirus)
BCF fish 2	16 - 204 (Poecilia reticulata)
BCF other aquatic organisms 1	13 (96 h; Daphnia magna)
BCF other aquatic organisms 2	58 (96 h; Annelida)
Log Pow	1.98 - 2.8
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2,6-dinitrotoluene (606-20-2)	
BCF fish 1	22 (Poecilia reticulata)
BCF other aquatic organisms 1	5225 (Algae; Biomass)
Log Pow	1.72 - 2.05
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
N-nitrosodiphenylamine (86-30-6)	
BCF fish 1	217 (336 h; Lepomis macrochirus; Flow-through system)
BCF fish 2	4.6 - 38 (Cyprinus carpio; Test duration: 6 weeks)
Log Pow	3.13 - 3.96
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
fluoranthene (206-44-0)	
BCF fish 1	3981 (Pimephales promelas)
BCF fish 2	6110 (Lepomis macrochirus)
BCF other aquatic organisms 1	10000 (192 h; Ostreidae)
BCF other aquatic organisms 2	695 (48 h; Ostreidae)
Log Pow	5.33
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
fluorene (86-73-7)	
BCF fish 1	2230 (Poecilia reticulata)
BCF fish 2	219 - 830 (Cyprinus carpio; Test duration: 8 weeks)
Log Pow	4.12 - 4.67
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
hexachlorobenzene (118-74-1)	
BCF fish 1	20000 (Salmo gairdneri (Oncorhynchus mykiss); Test duration: 8 weeks)
BCF fish 2	30000 (Cyprinus carpio; Test duration: 8 weeks)
BCF other aquatic organisms 1	25000 (Algae)
BCF other aquatic organisms 2	1130 (720 h; Daphnia magna)
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 Salmo gairdneri (Oncorhynchus mykiss)
BCF fish 2	7000 (Pleuronectes platessa; Flow-through system)
BCF other aquatic organisms 1	45.36 (Procambarus sp.; Flow-through system)
BCF other aquatic organisms 2	3000 (Mytilus edulis; Flow-through system)
Log Pow	3.74 - 4.90

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hexachlorobuta-1,3-diene (87-68-3)	
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
Hexachlorocyclopentadiene (77-47-4)	
BCF fish 1	1230 (72 h; <i>Leuciscus idus</i> ; Static system)
BCF fish 2	323 (384 h; <i>Carassius auratus</i>)
BCF other aquatic organisms 1	1090 (24 h; <i>Chlorella</i> sp.; Fresh weight)
BCF other aquatic organisms 2	341 (792 h; Chlorophyta)
Log Pow	3.99-5.51
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
hexachloroethane (67-72-1)	
BCF fish 1	1200 <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>)
BCF fish 2	756 mg/l (768 h; <i>Pimephales promelas</i>)
Log Pow	3.34 - 4.62
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
indeno(1,2,3-cd)pyrene (193-39-5)	
BCF other aquatic organisms 1	10000 (240 h; Amphipoda)
Log Pow	6.6 - 7.7
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
1-methylnaphthalene (90-12-0)	
BCF fish 1	20 (5 weeks; <i>Oncorhynchus kisutch</i>)
BCF fish 2	113-2000, 1 - 2 weeks; <i>Platichthys stellatus</i>
Log Pow	3.87 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
2-methylnaphthalene (91-57-6)	
BCF fish 1	407 (624 h; <i>Lepomis macrochirus</i> ; Muscles)
BCF fish 2	190 (840 h; <i>Oncorhynchus kisutch</i> ; Muscles)
Log Pow	3.86 (Experimental value)
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).
3-Methylphenol (108-39-4)	
BCF fish 1	20 (72 h; <i>Leuciscus idus</i>)
BCF fish 2	10.7 (<i>Brachydanio rerio</i>)
BCF other aquatic organisms 1	4900 (24 h; <i>Chlorella</i> sp.)
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 (Pisces; QSAR)
Log Pow	1.97 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
naphthalene (91-20-3)	
BCF fish 1	23 - 168 (8 weeks; <i>Cyprinus carpio</i>)
BCF fish 2	40 - 300 (672 h; <i>Oncorhynchus mykiss</i>)
BCF other aquatic organisms 1	331 (360 h; <i>Ostreidae</i>)
BCF other aquatic organisms 2	130 (24 h; <i>Chlorella</i> sp.)
Log Pow	3.30 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2-Nitroaniline (88-74-4)	
BCF fish 1	2.1 - 4.9 (<i>Cyprinus carpio</i> ; Test duration: 6 weeks)
BCF fish 2	8.1 (24 h; <i>Brachydanio rerio</i> ; Fresh water)
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, <i>Cyprinus carpio</i> ; Test duration: 6 weeks

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3-Nitroaniline (99-09-2)	
Log Pow	1.37
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
4-Nitroaniline (100-01-6)	
BCF fish 1	< 2.9/<10, Cyprinus carpio; Test duration: 6 weeks
Log Pow	1.4
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
nitrobenzene (98-95-3)	
BCF fish 1	15 (672 h; Pimephales promelas)
BCF fish 2	1.6 - 7.7 (Cyprinus carpio; Test duration: 6 weeks)
BCF other aquatic organisms 1	24 (Chlorella sp.)
Log Pow	1.79 - 1.9
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 (768 h; Pimephales promelas)
BCF fish 2	39 - 224 (Cyprinus carpio; Test duration: 8 weeks)
BCF other aquatic organisms 1	1250 (Algae)
Log Pow	4.07 - 5.19
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
phenanthrene (85-01-8)	
BCF fish 1	5100 (672 h; Pimephales promelas; Young)
BCF fish 2	2630 (Pisces)
BCF other aquatic organisms 1	1760 (Chlorella sp.)
BCF other aquatic organisms 2	325 (24 h; Daphnia pulex)
Log Pow	4.46
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
phenol (108-95-2)	
BCF fish 1	20 (Leuciscus idus)
BCF fish 2	1276 - 1496 (Pimephales promelas)
BCF other aquatic organisms 1	277 (Daphnia magna)
BCF other aquatic organisms 2	3.5 - 16 (Scenedesmus quadricauda)
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 (Pimephales promelas)
BCF fish 2	4810 (Poecilia reticulata)
BCF other aquatic organisms 1	2692 (Daphnia pulex)
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).
2,3,4,6-tetrachlorophenol (58-90-2)	
BCF fish 1	200 (24 h; Poecilia reticulata)
BCF fish 2	93 (24 h; Carassius auratus)
Log Pow	4.1 - 4.8
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).
2,3,5,6-tetrachlorophenol (935-95-5)	
Log Pow	3.88 - 4.92

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2,3,5,6-tetrachlorophenol (935-95-5)	
Bioaccumulative potential	No bioaccumulation data available.
1,2,4-trichlorobenzene (120-82-1)	
BCF fish 1	1200 - 3700 (Salmo gairdneri (Oncorhynchus mykiss); Chronic)
BCF fish 2	1140 - 4420 (Cyprinus carpio; Test duration: 6 weeks)
BCF other aquatic organisms 1	250 (24 h; Chlorella sp.; Fresh weight)
BCF other aquatic organisms 2	142 (Daphnia magna)
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 (Carassius auratus)
BCF fish 2	121 - 825 (Cyprinus carpio; Test duration: 8 weeks)
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 1	6080 (Pisces)
BCF fish 2	12130 (36 days; Poecilia reticulata)
BCF other aquatic organisms 1	134 - 580 (Algae)
Log Pow	3.4 - 4.05 (Literature)
Bioaccumulative potential	High potential for bioaccumulation ($\text{BCF} > 5000$).
Methylene Chloride (75-09-2)	
BCF fish 1	2 - 40 (Cyprinus carpio; Test duration: 6 weeks)
Log Pow	1.25 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation ($\text{BCF} < 500$).
12.4. Mobility in soil	
benzene (71-43-2)	
Surface tension	0.029 N/m (20 °C)
methanol (67-56-1)	
Surface tension	0.023 N/m (20 °C)
azobenzene (103-33-3)	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
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.
Bis(2-ethylhexyl) phthalate (117-81-7)	
Surface tension	0.032 N/m (20 °C)
4-chloroaniline (106-47-8)	
Ecology - soil	Soil contaminant.
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)
1,4-dichlorobenzene (106-46-7)	
Surface tension	0.030 N/m (55 °C)
dibutyl phthalate (84-74-2)	
Surface tension	0.034 N/m (20 °C)
2,4-dinitrophenol (51-28-5)	
Ecology - soil	Toxic to flora.

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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)
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
phenanthrene (85-01-8)	
Ecology - soil	Soil contaminant.
phenol (108-95-2)	
Surface tension	0.039 N/m (41 °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	
(120-12-7)	This substance/mixture meets the PBT criteria of REACH, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.
(85-68-7)	This substance/mixture does not meet the PBT criteria of REACH, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.
(117-81-7)	This substance/mixture does not meet the PBT criteria of REACH, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.
(84-74-2)	This substance/mixture does not meet the PBT criteria of REACH, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.
(121-14-2)	This substance/mixture does not meet the PBT criteria of REACH, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects

: Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste 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	: Hazardous waste due to toxicity. Avoid release to the environment.

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SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA

14.1. UN number

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

14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, TOXIC, N.O.S.
Proper Shipping Name (IATA) : FLAMMABLE LIQUID, TOXIC, N.O.S.
Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, TOXIC, N.O.S.
Proper Shipping Name (ADN) : FLAMMABLE LIQUID, TOXIC, N.O.S.
Transport document description (ADR) : UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S., 3 (6.1), II, (D/E)

14.3. Packing group

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



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.) : 336
Classification code (ADR) : FT1
Orange plates :



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

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

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14.6.4. Inland waterway transport

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

No REACH Annex XVII restrictions

Contains REACH Candidate List substance(s): Anthracene (EC 204-371-1, CAS 120-12-7), Benzyl butyl phthalate (BBP) (EC 201-622-7, CAS 85-68-7), Bis (2-ethyl(hexyl)phthalate) (DEHP) (EC 204-211-0, CAS 117-81-7), Dibutyl phthalate (DBP) (EC 201-557-4, CAS 84-74-2), 2,4-Dinitrotoluene (EC 204-450-0, CAS 121-14-2)

Contains REACH Annex XIV substances: Benzyl butyl phthalate (BBP) (EC 201-622-7, CAS 85-68-7), Bis(2-ethylhexyl) phthalate (DEHP) (EC 204-211-0, CAS 117-81-7), Dibutyl phthalate (DBP) (EC 201-557-4, CAS 84-74-2), 2,4-Dinitrotoluene (2,4-DNT) (EC 204-450-0, CAS 121-14-2)

15.1.2. National regulations

No additional information available

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.

PHV SDS EU

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