

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

1.1. Product identifier

Product form : Mixture
Product name : Custom 8270 Cal Mix 1
Product code : AL0-130325
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
Carc. 1B	H350
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

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

Carc.Cat.2; R45
F; R11
E; R2
E; R3
T; R23
Xn; R21/22
N; R50/53
R44

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapor
H302 - Harmful if swallowed
H311 - Toxic in contact with skin
H350 - May cause cancer
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
P270 - Do not eat, drink or smoke when using this product
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water
P308+P313 - IF exposed or concerned: Get medical advice/attention
P361+P364 - Take off immediately all contaminated clothing and wash it before reuse
P370+P378 - In case of fire: Use media other than water to extinguish
P391 - Collect spillage
P403+P235 - Store in a well-ventilated place. Keep cool
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

EUH phrases :

EUH208 - Contains aniline(62-53-3), 4-chloroaniline(106-47-8), 4-chloro-3-methylphenol(59-50-7), 4,6-dinitro-o-cresol(534-52-1). May produce an allergic reaction
EUH044 - Risk of explosion if heated under confinement

No labeling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methylene Chloride (Component)	(CAS No) 75-09-2 (EC-No.) 200-838-9 (EC index no) 602-004-00-3	93.54	Carc. 2, H351
4-chloro-3-methylphenol (Component)	(CAS No) 59-50-7 (EC-No.) 200-431-6 (EC index no) 604-014-00-3	0.4	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
4,6-Dinitro-2-methylphenol (Component)	(CAS No) 534-52-1 (EC-No.) 208-601-1 (EC index no) 609-020-00-X	0.4	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	0.2	Acute Tox. 2 (Oral), H300 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Acute 1, H400

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,3,4,5,6-pentachlorophenol (Component)	(CAS No) 87-86-5 (EC-No.) 201-778-6 (EC index no) 604-002-00-8	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
aniline (Component)	(CAS No) 62-53-3 (EC-No.) 200-539-3 (EC index no) 612-008-00-7	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400
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-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
diphenyl (Component)	(CAS No) 92-52-4 (EC-No.) 202-163-5 (EC index no) 601-042-00-8	0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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
4-bromodiphenyl ether (Component)	(CAS No) 101-55-3 (EC-No.) 202-952-4	0.1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-chloroaniline (Component)	(CAS No) 106-47-8 (EC-No.) 203-401-0 (EC index no) 612-137-00-9	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, H317 Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Bis(2-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
dibenzofuran (Component)	(CAS No) 132-64-9 (EC-No.) 205-071-3	0.1	Aquatic Chronic 2, H411
2-chlorophenol (Component)	(CAS No) 95-57-8 (EC-No.) 202-433-2 (EC index no) 604-008-00-0	0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411
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
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-Chlorodiphenyl ether (Component)	(CAS No) 7005-72-3 (EC-No.) 230-281-7	0.1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3-dichloroaniline (Component)	(CAS No) 608-27-5 (EC-No.) 210-157-9 (EC index no) 612-010-00-8	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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

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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
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
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
di-n-octyl phthalate (Component)	(CAS No) 117-84-0 (EC-No.) 204-214-7	0.1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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
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)
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
2-Nitroaniline (Component)	(CAS No) 88-74-4 (EC-No.) 201-855-4 (EC index no) 612-012-00-9	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Chronic 3, H412
isophorone (Component)	(CAS No) 78-59-1 (EC-No.) 201-126-0 (EC index no) 606-012-00-8	0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335
3-Nitroaniline (Component)	(CAS No) 99-09-2 (EC-No.) 202-729-1 (EC index no) 612-012-00-9	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Chronic 3, H412
2,6-dichlorophenol (Component)	(CAS No) 87-65-0 (EC-No.) 201-761-3	0.1	Skin Corr. 1B, H314 Aquatic Chronic 2, H411
hydrazobenzene (Component)	(CAS No) 122-66-7 (EC-No.) 204-563-5 (EC index no) 007-021-00-4	0.1	Carc. 1B, H350 Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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
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
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
N-Nitrosodiethylamine (Component)	(CAS No) 55-18-5 (EC-No.) 200-226-1	0.1	Acute Tox. 3 (Oral), H301 Carc. 1B, H350
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

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
pentachlorobenzene (Component)	(CAS No) 608-93-5 (EC-No.) 210-172-0 (EC index no) 602-074-00-5	0.1	Flam. Sol. 1, H228 Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 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
1,3,5-trinitrobenzene (Component)	(CAS No) 99-35-4 (EC-No.) 202-752-7 (EC index no) 609-005-00-8	0.1	Expl. 1.1, H201 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
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
1,2,4,5-tetrachlorobenzene (Component)	(CAS No) 95-94-3 (EC-No.) 202-466-2	0.1	Aquatic Chronic 2, H411
anthracene (Component) substance listed as REACH Candidate	(CAS No) 120-12-7 (EC-No.) 204-371-1	0.02	Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
benzo[a]pyrene (Component) substance listed as REACH Candidate (Benzo[def]chrysene)	(CAS No) 50-32-8 (EC-No.) 200-028-5 (EC index no) 601-032-00-3	0.02	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[a]anthracene (Component)	(CAS No) 56-55-3 (EC-No.) 200-280-6 (EC index no) 601-033-00-9	0.02	Carc. 1B, H350 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
benzo[ghi]perylene (Component)	(CAS No) 191-24-2 (EC-No.) 205-883-8	0.02	Aquatic Acute 1, H400 (M=1000) 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	0.02	Carc. 1B, H350 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
chrysene (Component)	(CAS No) 218-01-9 (EC-No.) 205-923-4 (EC index no) 601-048-00-0	0.02	Muta. 2, H341 Carc. 1B, H350 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)
dibenz(a,h)anthracene (Component)	(CAS No) 53-70-3 (EC-No.) 200-181-8 (EC index no) 601-041-00-2	0.02	Carc. 1B, H350 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410
naphthalene (Component) substance with a Community workplace exposure limit	(CAS No) 91-20-3 (EC-No.) 202-049-5 (EC index no) 601-052-00-2	0.02	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
fluoranthene (Component)	(CAS No) 206-44-0 (EC-No.) 205-912-4	0.02	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
2-Methylphenol (Component) substance with a Community workplace exposure limit	(CAS No) 95-48-7 (EC-No.) 202-423-8 (EC index no) 604-004-00-9	0.02	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314
nitrobenzene (Component) substance listed as REACH Candidate substance with a Community workplace exposure limit	(CAS No) 98-95-3 (EC-No.) 202-716-0 (EC index no) 609-003-00-7	0.02	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
pyrene (Component)	(CAS No) 129-00-0 (EC-No.) 204-927-3	0.02	Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
N-Nitrosodimethylamine (Component)	(CAS No) 62-75-9 (EC-No.) 200-549-8 (EC index no) 612-077-00-3	0.02	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	0.02	Acute Tox. 4 (Oral), H302 Carc. 1B, H350 Aquatic Chronic 2, H411
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	0.01	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Aquatic Chronic 2, H411

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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	0.01	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314
Name	Product identifier	Specific concentration limits	
aniline (Component)	(CAS No) 62-53-3 (EC-No.) 200-539-3 (EC index no) 612-008-00-7	(0.2 =<C < 1) STOT RE 2, H373 (C >= 1) STOT RE 1, H372	
isophorone (Component)	(CAS No) 78-59-1 (EC-No.) 201-126-0 (EC index no) 606-012-00-8	(C >= 10) STOT SE 3, H335	
phenol (Component)	(CAS No) 108-95-2 (EC-No.) 203-632-7 (EC index no) 604-001-00-2	(1 =<C < 3) Eye Irrit. 2, H319 (1 =<C < 3) Skin Irrit. 2, H315 (C >= 3) Skin Corr. 1B, H314	
2,3,4,6-tetrachlorophenol (Component)	(CAS No) 58-90-2 (EC-No.) 200-402-8 (EC index no) 604-013-00-8	(C >= 5) Skin Irrit. 2, H315 (C >= 5) Eye Irrit. 2, H319	
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	

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	: Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician if you feel unwell.

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

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

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Fire hazard	: 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. Prevent fire-fighting water from entering environment. DO NOT fight fire when fire reaches explosives. Evacuate area.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from sources of ignition - No smoking.

Hygiene measures : Do not eat, drink or smoke when using this product. Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

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

Storage conditions : Keep in fireproof place. Keep container tightly closed. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.

Incompatible materials : Direct sunlight. Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

aniline (62-53-3)		
Belgium	Limit value (mg/m ³)	7.7 mg/m ³ (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	2 ppm (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	10 mg/m ³ (Aniline; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	2 ppm (Aniline; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	2 ppm (Aniline; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
United Kingdom	WEL TWA (mg/m ³)	4 mg/m ³ Aniline; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	1 ppm Aniline; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
benzo[a]pyrene (50-32-8)		
Netherlands	Grenswaarde TGG 8H (mg/m ³)	550 (Benzo(a)pyreen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)

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diphenyl (92-52-4)		
Belgium	Limit value (mg/m ³)	1.3 mg/m ³ (Biphényle; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	0.2 ppm (Biphényle; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	1.5 mg/m ³ (Biphényle; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	0.2 ppm (Biphényle; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.2 ppm (Biphenyl; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Bis(2-ethylhexyl) phthalate (117-81-7)		
Belgium	Limit value (mg/m ³)	5 mg/m ³ (Phtalate de di-sec-octyle; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m ³)	10 mg/m ³ (Phtalate de di-sec-octyle; Belgium; Short time value)
France	VME (mg/m ³)	5 mg/m ³ (Phtalate de di(2-éthylhexyle); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³ (Di(2-ethylhexyl)phthalate (DEHP); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
United Kingdom	WEL TWA (mg/m ³)	5 mg/m ³ Bis(2-ethylhexyl)phthalate; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m ³)	10 mg/m ³ Bis(2-ethylhexyl)phthalate; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
benzyl butyl phthalate (85-68-7)		
United Kingdom	WEL TWA (mg/m ³)	5 mg/m ³ Benzyl butyl phthalate; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
4-chloroaniline (106-47-8)		
Belgium	Limit value (mg/m ³)	7.7 mg/m ³ (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	2 ppm (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
2,3-dichloroaniline (608-27-5)		
Belgium	Limit value (mg/m ³)	7.7 mg/m ³ (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	2 ppm (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
1,2-dichlorobenzene (95-50-1)		
EU	IOELV TWA (mg/m ³)	122 mg/m ³ (1,2-Dichlorobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	20 ppm (1,2-Dichlorobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV STEL (mg/m ³)	306 mg/m ³ (1,2-Dichlorobenzene; EU; Short time value; Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)	50 ppm (1,2-Dichlorobenzene; EU; Short time value; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m ³)	122 mg/m ³ (1,2-Dichlorobenzène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	20 ppm (1,2-Dichlorobenzène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m ³)	306 mg/m ³ (1,2-Dichlorobenzène; Belgium; Short time value)
Belgium	Short time value (ppm)	50 ppm (1,2-Dichlorobenzène; Belgium; Short time value)
France	VLE (mg/m ³)	306 mg/m ³ (1,2-Dichlorobenzène; France; Short time value; VRC: Valeur réglementaire contraignante)

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

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1,4-dichlorobenzene (106-46-7)		
USA OSHA	OSHA PEL (TWA) (ppm)	75 ppm
USA OSHA	OSHA PEL (STEL) (mg/m ³)	675 mg/m ³
USA OSHA	OSHA PEL (STEL) (ppm)	110 ppm
Netherlands	Grenswaarde TGG 8H (mg/m ³)	150 mg/m ³ (1,4-Dichloorbenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	25 ppm (1,4-Dichloorbenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	300 mg/m ³ (1,4-Dichloorbenzeen; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (ppm)	49 ppm (1,4-Dichloorbenzeen; Netherlands; Short time value; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m ³)	153 mg/m ³ 1,4-Dichlorobenzene (para-dichlorobenzene); United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	25 ppm 1,4-Dichlorobenzene (para-dichlorobenzene); United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m ³)	306 mg/m ³ 1,4-Dichlorobenzene (para-dichlorobenzene); United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	50 ppm 1,4-Dichlorobenzene (para-dichlorobenzene); United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
dibutyl phthalate (84-74-2)		
Belgium	Limit value (mg/m ³)	5 mg/m ³ (Phtalate de dibutyle; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	5 mg/m ³ (Phtalate de dibutyle; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³ (Dibutyl phthalate; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
United Kingdom	WEL TWA (mg/m ³)	5 mg/m ³ Dibutyl phthalate; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m ³)	10 mg/m ³ Dibutyl phthalate; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
1,2-dinitrobenzene (528-29-0)		
Belgium	Limit value (mg/m ³)	1 mg/m ³ (Dinitrobenzène (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	0.15 ppm (Dinitrobenzène (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	1 mg/m ³ (Dinitrobenzène (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	0.15 ppm (Dinitrobenzène (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.15 ppm (Dinitrobenzene, all isomers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
United Kingdom	WEL TWA (mg/m ³)	1 mg/m ³ Dinitrobenzene, all isomers; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	0.15 ppm Dinitrobenzene, all isomers; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m ³)	3.5 mg/m ³ Dinitrobenzene, all isomers; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	0.5 ppm Dinitrobenzene, all isomers; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)

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1,3-dinitrobenzene (99-65-0)		
Belgium	Limit value (mg/m ³)	1 mg/m ³ (Dinitrobenzène (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	0.15 ppm (Dinitrobenzène (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	1 mg/m ³ (Dinitrobenzène (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	0.15 ppm (Dinitrobenzène (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.15 ppm (Dinitrobenzene, all isomers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
United Kingdom	WEL TWA (mg/m ³)	1 mg/m ³ Dinitrobenzene, all isomers; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	0.15 ppm Dinitrobenzene, all isomers; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m ³)	3.5 mg/m ³ Dinitrobenzene, all isomers; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	0.5 ppm Dinitrobenzene, all isomers; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
1,4-dinitrobenzene (100-25-4)		
Belgium	Limit value (mg/m ³)	1 mg/m ³ (Dinitrobenzène (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	0.15 ppm (Dinitrobenzène (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	1 mg/m ³ (Dinitrobenzène (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	0.15 ppm (Dinitrobenzène (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.15 ppm (Dinitrobenzene, all isomers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
United Kingdom	WEL TWA (mg/m ³)	1 mg/m ³ Dinitrobenzene, all isomers; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	0.15 ppm Dinitrobenzene, all isomers; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m ³)	3.5 mg/m ³ Dinitrobenzene, all isomers; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	0.5 ppm Dinitrobenzene, all isomers; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
4,6-Dinitro-2-methylphenol (534-52-1)		
Belgium	Limit value (mg/m ³)	0.2 mg/m ³ (4,6-Dinitro-o-crésol; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	0.2 mg/m ³ (4,6-Dinitro-o-crésol; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0.2 mg/m ³ (Dinitro-o-cresol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
hydrazobenzene (122-66-7)		
Belgium	Limit value (mg/m ³)	7.7 mg/m ³ (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	2 ppm (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
Hexachlorocyclopentadiene (77-47-4)		
Belgium	Limit value (mg/m ³)	0.11 mg/m ³ (Hexachlorocyclopentadiène; Belgium; Time-weighted average exposure limit 8 h)

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Hexachlorocyclopentadiene (77-47-4)		
Belgium	Limit value (ppm)	0.01 ppm (Hexachlorocyclopentadiène; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	0.1 mg/m ³ (Hexachlorocyclopentadiène; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	0.01 ppm (Hexachlorocyclopentadiène; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.01 ppm (Hexachlorocyclopentadiene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
hexachloroethane (67-72-1)		
Belgium	Limit value (mg/m ³)	9.8 mg/m ³ (Hexachloroéthane; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	1 ppm (Hexachloroéthane; Belgium; Time-weighted average exposure limit 8 h)
France	VLE (ppm)	10 ppm (Hexachloroéthane; France; Short time value; VL: Valeur non réglementaire indicative)
France	VME (ppm)	1 ppm (Hexachloroéthane; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	1 ppm (Hexachloroethane; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
isophorone (78-59-1)		
Belgium	Short time value (mg/m ³)	mg/m ³
Belgium	Short time value (ppm)	5 ppm
France	VLE (mg/m ³)	Isophorone,25 mg/m ³ ; France; Short time value; VL: Valeur non réglementaire indicative
France	VLE (ppm)	Isophorone,5 ppm; France; Short time value; VL: Valeur non réglementaire indicative
Italy - Portugal - USA ACGIH	ACGIH Ceiling (ppm)	5 ppm
United Kingdom	WEL STEL (mg/m ³)	29 mg/m ³
United Kingdom	WEL STEL (ppm)	5 ppm
2-Methylphenol (95-48-7)		
EU	IOELV TWA (mg/m ³)	22 mg/m ³ (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	5 ppm (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m ³)	22 mg/m ³ (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	5 ppm (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	22 mg/m ³ (Crésols (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	5 ppm (Crésols (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	20 mg/m ³ (Cresol, all isomers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)
Netherlands	Grenswaarde TGG 8H (mg/m ³)	22 mg/m ³ (Kresol (alle isomeren); Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
3-Methylphenol (108-39-4)		
EU	IOELV TWA (mg/m ³)	22 mg/m ³ (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	5 ppm (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m ³)	22 mg/m ³ (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h)

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

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naphthalene (91-20-3)		
Netherlands	Grenswaarde TGG 15MIN (ppm)	15 ppm (Naftaleen; Netherlands; Short time value; Public occupational exposure limit value)
2-Nitroaniline (88-74-4)		
Belgium	Limit value (mg/m ³)	7.7 mg/m ³ (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	2 ppm (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
3-Nitroaniline (99-09-2)		
Belgium	Limit value (mg/m ³)	7.7 mg/m ³ (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	2 ppm (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
nitrobenzene (98-95-3)		
EU	IOELV TWA (mg/m ³)	1 mg/m ³ (Nitrobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	0.2 ppm (Nitrobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m ³)	1 mg/m ³ (Nitrobenzène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	0.2 ppm (Nitrobenzène; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	1 mg/m ³ (Nitrobenzène; France; Time-weighted average exposure limit 8 h; VRI: Valeur réglementaire indicative)
France	VME (ppm)	0.2 ppm (Nitrobenzène; France; Time-weighted average exposure limit 8 h; VRI: Valeur réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	1 ppm (Nitrobenzene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m ³)	1 mg/m ³ (Nitrobenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	0.2 ppm (Nitrobenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m ³)	1 mg/m ³ Nitrobenzene; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	0.2 ppm Nitrobenzene; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
N-Nitrosodimethylamine (62-75-9)		
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0.0002 mg/m ³ (N-Nitrosodimethylamine; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	0.000065 ppm (N-Nitrosodimethylamine; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
N-nitrosodiphenylamine (86-30-6)		
Belgium	Limit value (mg/m ³)	3 mg/m ³ (Particules non classifiées autrement (fraction alvéolaire); Belgium; Time-weighted average exposure limit 8 h; Particules non classifiées autrement (fraction inhalable); 10 mg/m ³ ; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	10 mg/m ³ (Poussières réputées sans effet spécifique; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante; Poussières réputées sans effet spécifique, fraction; 5 mg/m ³ ; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³ (Particulates (insoluble or poorly soluble)(NOS); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)

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N-nitrosodiphenylamine (86-30-6)		
United Kingdom	WEL TWA (mg/m ³)	4 mg/m ³ Inhalable dust; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005); Respirable dust; 10 mg/m ³ ; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
2,3,4,5,6-pentachlorophenol (87-86-5)		
Belgium	Limit value (mg/m ³)	0.5 mg/m ³ (Pentachlorophénol; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	0.5 mg/m ³ (Pentachlorophénol; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0.5 mg/m ³ (Pentachlorophenol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)
Italy - Portugal - USA ACGIH	ACGIH STEL (mg/m ³)	1 mg/m ³ (Pentachlorophenol; USA; Short time value; TLV - Adopted Value; Inhalable fraction and vapor)
phenol (108-95-2)		
EU	IOELV TWA (mg/m ³)	8 mg/m ³ (Phenol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	2 ppm (Phenol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV STEL (mg/m ³)	16 mg/m ³ (Phenol; EU; Short time value; Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)	4 ppm (Phenol; EU; Short time value; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m ³)	8 mg/m ³ (Phénol; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	2 ppm (Phénol; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m ³)	16 mg/m ³ (Phénol; Belgium; Short time value)
Belgium	Short time value (ppm)	4 ppm (Phénol; Belgium; Short time value)
France	VLE (mg/m ³)	15.6 mg/m ³ (Phénol; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VLE (ppm)	4 ppm (Phénol; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VME (mg/m ³)	7.8 mg/m ³ (Phénol; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	2 ppm (Phénol; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	5 ppm (Phenol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m ³)	8 mg/m ³ (Fenol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	2 ppm (Fenol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m ³)	7.8 mg/m ³ Phenol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	2 ppm Phenol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m ³)	16 mg/m ³ Phenol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	4 ppm Phenol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
pyridine (110-86-1)		
EU	IOELV TWA (mg/m ³)	15 mg/m ³ (Pyridine; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)

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

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

8.2. Exposure controls

Appropriate engineering controls

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

Personal protective equipment

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



Hand protection

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

Eye protection

: Chemical goggles or safety glasses. Safety glasses.

Skin and body protection

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

Respiratory protection

: Wear appropriate mask.

Other information

: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

: Liquid

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Color	: Colorless.
Odor	: characteristic.
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapor
Relative density	: No data available
Solubility	: No data available
Explosive properties	: 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

No additional information available

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Custom 8270 Cal Mix 1	
ATE CLP (oral)	639.996 mg/kg body weight
ATE CLP (dermal)	610.049 mg/kg body weight
aniline (62-53-3)	
LD50 oral rat	250 mg/kg (Rat)
LD50 dermal rabbit	840 mg/kg (Rabbit; Experimental value; 21 CFR 191.10; 836 mg/kg bodyweight; Rabbit)
LC50 inhalation rat (mg/l)	3.27 mg/l/4h (Rat; Experimental value)
ATE CLP (oral)	250 mg/kg body weight
ATE CLP (dermal)	840 mg/kg body weight
ATE CLP (gases)	700 ppmV/4h
ATE CLP (vapors)	3.27 mg/l/4h
ATE CLP (dust, mist)	3.27 mg/l/4h
anthracene (120-12-7)	
LD50 oral rat	> 16000 mg/kg (Rat)
diphenyl (92-52-4)	
LD50 oral rat	3280 mg/kg (Rat)
LD50 dermal rabbit	2500 mg/kg (Rabbit)
ATE CLP (oral)	3280 mg/kg body weight
ATE CLP (dermal)	2500 mg/kg body weight
bis(2-chloroethoxy) methane (111-91-1)	
LD50 oral rat	65 mg/kg (Rat)

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bis(2-chloroethoxy) methane (111-91-1)	
LD50 dermal rat	1071 mg/kg (Rat)
ATE CLP (oral)	65 mg/kg body weight
ATE CLP (dermal)	1071 mg/kg body weight

Bis(2-chloroisopropyl) ether (108-60-1)	
LD50 oral rat	240 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	3300 mg/kg (Rabbit)
ATE CLP (oral)	240 mg/kg body weight
ATE CLP (dermal)	3300 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 CLP (oral)	30000 mg/kg body weight
ATE CLP (dermal)	25000 mg/kg body weight

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 CLP (oral)	2330 mg/kg body weight
ATE CLP (dermal)	6700 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)
LC50 inhalation rat (mg/l)	2.34 mg/l/4h (Rat)
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	360 mg/kg body weight
ATE CLP (gases)	700 ppmV/4h
ATE CLP (vapors)	2.34 mg/l/4h
ATE CLP (dust, mist)	2.34 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 CLP (oral)	1194 mg/kg body weight
ATE CLP (dermal)	1100 mg/kg body weight

2-chlorophenol (95-57-8)	
LD50 oral rat	670 mg/kg body weight (Rat; Literature study)
ATE CLP (oral)	670 mg/kg body weight
ATE CLP (dermal)	1100 mg/kg body weight
ATE CLP (gases)	4500 ppmV/4h
ATE CLP (vapors)	11 mg/l/4h
ATE CLP (dust, mist)	1.5 mg/l/4h

2,3-dichloroaniline (608-27-5)	
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	300 mg/kg body weight

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

1,3-dichlorobenzene (541-73-1)	
LD50 oral rat	580 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)

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1,3-dichlorobenzene (541-73-1)	
LC50 inhalation rat (mg/l)	> 17.6 mg/l/4h (Rat; Literature study)
ATE CLP (oral)	580 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)
2,6-dichlorophenol (87-65-0)	
LD50 oral rat	2940 mg/kg (Rat; Weight of evidence)
ATE CLP (oral)	2940 mg/kg body weight
2,4-Dimethylphenol (105-67-9)	
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	300 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)
di-n-octyl phthalate (117-84-0)	
LD50 oral rat	47000 mg/kg (Rat)
ATE CLP (oral)	47000 mg/kg body weight
1,2-dinitrobenzene (528-29-0)	
LD50 oral rat	< 50 mg/kg (Rat)
ATE CLP (oral)	5 mg/kg body weight
ATE CLP (dermal)	5 mg/kg body weight
ATE CLP (gases)	100 ppmV/4h
ATE CLP (vapors)	0.5 mg/l/4h
ATE CLP (dust, mist)	0.05 mg/l/4h
1,3-dinitrobenzene (99-65-0)	
LD50 oral rat	60 mg/kg (Rat)
LD50 dermal rat	1200 mg/kg (Rat)
ATE CLP (oral)	5 mg/kg body weight
ATE CLP (dermal)	5 mg/kg body weight
ATE CLP (gases)	100 ppmV/4h
ATE CLP (vapors)	0.5 mg/l/4h
ATE CLP (dust, mist)	0.05 mg/l/4h
1,4-dinitrobenzene (100-25-4)	
ATE CLP (oral)	5 mg/kg body weight
ATE CLP (dermal)	5 mg/kg body weight
ATE CLP (gases)	100 ppmV/4h
ATE CLP (vapors)	0.5 mg/l/4h
ATE CLP (dust, mist)	0.05 mg/l/4h
4,6-Dinitro-2-methylphenol (534-52-1)	
LD50 oral rat	7 - 40 mg/kg (Rat)
LD50 dermal rat	200 mg/kg (Rat)
ATE CLP (oral)	7 mg/kg body weight
ATE CLP (dermal)	5 mg/kg body weight
ATE CLP (gases)	100 ppmV/4h
ATE CLP (vapors)	0.5 mg/l/4h
ATE CLP (dust, mist)	0.05 mg/l/4h
2,4-dinitrophenol (51-28-5)	
LD50 oral rat	30 mg/kg (Rat)
ATE CLP (oral)	30 mg/kg body weight
ATE CLP (dermal)	300 mg/kg body weight
ATE CLP (gases)	700 ppmV/4h
ATE CLP (vapors)	3 mg/l/4h
ATE CLP (dust, mist)	0.5 mg/l/4h
hydrazobenzene (122-66-7)	
LD50 oral rat	301 mg/kg (Rat)

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

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

hexachloroethane (67-72-1)	
LD50 oral rat	4460 mg/kg (Rat)
LD50 dermal rabbit	32000 mg/kg (Rabbit)
ATE CLP (oral)	4460 mg/kg body weight
ATE CLP (dermal)	32000 mg/kg body weight

isophorone (78-59-1)	
LD50 oral rat	1870 mg/kg (Rat)
LD50 dermal rat	1390 mg/kg (Rat)
LD50 dermal rabbit	1350 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	7.2 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	1281 ppm/4h (Rat)
ATE CLP (oral)	1870 mg/kg body weight
ATE CLP (dermal)	1350 mg/kg body weight
ATE CLP (gases)	1281 ppmV/4h
ATE CLP (vapors)	7.2 mg/l/4h
ATE CLP (dust, mist)	7.2 mg/l/4h

2-Methylphenol (95-48-7)	
LD50 oral rat	121 mg/kg (Rat)
LD50 dermal rat	620 mg/kg (Rat)
LD50 dermal rabbit	890 mg/kg (Rabbit)
ATE CLP (oral)	121 mg/kg body weight
ATE CLP (dermal)	620 mg/kg body weight

3-Methylphenol (108-39-4)	
LD50 oral rat	242 mg/kg (Rat)
LD50 dermal rat	1100 mg/kg (Rat)
LD50 dermal rabbit	2050 mg/kg (Rabbit)
ATE CLP (oral)	242 mg/kg body weight
ATE CLP (dermal)	300 mg/kg body weight

4-Methylphenol (106-44-5)	
LD50 oral rat	207 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	301 mg/kg (Rabbit)
ATE CLP (oral)	207 mg/kg body weight
ATE CLP (dermal)	301 mg/kg body weight

naphthalene (91-20-3)	
LD50 oral rat	> 1100 mg/kg (Rat)
LD50 dermal rat	> 2500 mg/kg (Rat)
LD50 dermal rabbit	> 20000 mg/kg (Rabbit)
ATE CLP (oral)	500 mg/kg body weight

2-Nitroaniline (88-74-4)	
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	300 mg/kg body weight

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2-Nitroaniline (88-74-4)	
ATE CLP (gases)	700 ppmV/4h
ATE CLP (vapors)	3 mg/l/4h
ATE CLP (dust, mist)	0.5 mg/l/4h
3-Nitroaniline (99-09-2)	
LD50 oral rat	535 mg/kg (Rat)
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	300 mg/kg body weight
ATE CLP (gases)	700 ppmV/4h
ATE CLP (vapors)	3 mg/l/4h
ATE CLP (dust, mist)	0.5 mg/l/4h
nitrobenzene (98-95-3)	
LD50 oral rat	640 mg/kg (Rat; Experimental value; 588 mg/kg bodyweight; Rat)
LD50 dermal rabbit	760 mg/kg body weight (Rabbit; Experimental value)
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	760 mg/kg body weight
ATE CLP (gases)	700 ppmV/4h
ATE CLP (vapors)	3 mg/l/4h
ATE CLP (dust, mist)	0.5 mg/l/4h
N-Nitrosodiethylamine (55-18-5)	
LD50 oral rat	220 mg/kg (Rat)
ATE CLP (oral)	220 mg/kg body weight
N-Nitrosodimethylamine (62-75-9)	
LD50 oral rat	37 mg/kg (Rat)
LC50 inhalation rat (mg/l)	0.24 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	78 ppm/4h (Rat)
ATE CLP (oral)	37 mg/kg body weight
ATE CLP (gases)	78 ppmV/4h
ATE CLP (vapors)	0.24 mg/l/4h
ATE CLP (dust, mist)	0.24 mg/l/4h
N-nitrosodiphenylamine (86-30-6)	
LD50 oral rat	1650 mg/kg (Rat)
LD50 dermal rabbit	> 7940 mg/kg (Rabbit)
ATE CLP (oral)	1650 mg/kg body weight
N-Nirosodi-n-propylamine (621-64-7)	
LD50 oral rat	480 mg/kg (Rat)
ATE CLP (oral)	480 mg/kg body weight
pentachlorobenzene (608-93-5)	
LD50 oral rat	1080 mg/kg (Rat)
ATE CLP (oral)	1080 mg/kg body weight
2,3,4,5,6-pentachlorophenol (87-86-5)	
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	300 mg/kg body weight
ATE CLP (gases)	100 ppmV/4h
ATE CLP (vapors)	0.5 mg/l/4h
ATE CLP (dust, mist)	0.05 mg/l/4h
phenol (108-95-2)	
LD50 oral rat	650 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rat	660 mg/kg (Rat; Experimental value; Equivalent or similar to OECD 402)
LD50 dermal rabbit	850 - 1400 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	0.32 mg/l/4h (Rat; Literature study)
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	660 mg/kg body weight
ATE CLP (gases)	700 ppmV/4h
ATE CLP (vapors)	0.32 mg/l/4h
ATE CLP (dust, mist)	0.32 mg/l/4h
pyrene (129-00-0)	
LD50 oral rat	2700 mg/kg (Rat)

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pyrene (129-00-0)	
ATE CLP (oral)	2700 mg/kg body weight
pyridine (110-86-1)	
LD50 oral rat	> 891 mg/kg (Rat)
LD50 dermal rabbit	1120 mg/kg (Rabbit)
ATE CLP (oral)	500 mg/kg body weight
ATE CLP (dermal)	1120 mg/kg body weight
ATE CLP (gases)	4500 ppmV/4h
ATE CLP (vapors)	11 mg/l/4h
ATE CLP (dust, mist)	1.5 mg/l/4h
1,2,4,5-tetrachlorobenzene (95-94-3)	
LD50 oral rat	3105 mg/kg (Rat)
ATE CLP (oral)	3105 mg/kg body weight
2,3,4,6-tetrachlorophenol (58-90-2)	
LD50 oral rat	140 mg/kg (Rat)
LD50 dermal rat	485 mg/kg (Rat)
ATE CLP (oral)	140 mg/kg body weight
ATE CLP (dermal)	485 mg/kg body weight
2,3,5,6-tetrachlorophenol (935-95-5)	
LD50 oral rat	109 mg/kg (Rat)
ATE CLP (oral)	109 mg/kg body weight
1,2,4-trichlorobenzene (120-82-1)	
LD50 oral rat	756 mg/kg (Rat)
LD50 dermal rat	6139 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 4.1 mg/l/4h (Rat)
ATE CLP (oral)	756 mg/kg body weight
ATE CLP (dermal)	6139 mg/kg body weight
1,3,5-trinitrobenzene (99-35-4)	
LD50 oral rat	275 mg/kg (Rat)
ATE CLP (oral)	5 mg/kg body weight
ATE CLP (dermal)	5 mg/kg body weight
ATE CLP (gases)	100 ppmV/4h
ATE CLP (vapors)	0.5 mg/l/4h
ATE CLP (dust, mist)	0.05 mg/l/4h
Methylene Chloride (75-09-2)	
LD50 oral rat	> 2000 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Literature study)

Skin corrosion/irritation	: Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitization	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: May cause cancer. May cause cancer
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity – single exposure	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity – repeated exposure	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met

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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.

anthracene (120-12-7)	
LC50 fish 2	0.00127 mg/l (LC50; 96 h)
EC50 Daphnia 2	0.0012 mg/l (EC50; 24 h)
benzo[a]anthracene (56-55-3)	
LC50 fish 1	0.0018 mg/l (LC50; 65 h)
EC50 Daphnia 1	0.01 mg/l (EC50; 96 h)
benzo[a]pyrene (50-32-8)	
LC50 fish 1	0.0056 mg/l (LC50; 38 h)
EC50 Daphnia 1	0.005 mg/l (LC50; 96 h)
Threshold limit algae 1	0.015 mg/l (EC50; 72 h)
benzo(ghi)perylene (191-24-2)	
EC50 Daphnia 1	0.0002 mg/l (LC50; 14 h)
benzo[k]fluoranthene (207-08-9)	
EC50 Daphnia 1	0.0048 mg/l (LC50; 23 h)
diphenyl (92-52-4)	
LC50 fish 1	1.5 mg/l (LC50; 96 h; Salmo gairdneri)
EC50 Daphnia 2	0.36 mg/l (LC50; 48 h)
Threshold limit algae 2	1.28 mg/l (EC50; 3 h)
bis(2-chloroethoxy) methane (111-91-1)	
LC50 fish 1	155 - 217 mg/l (LC50; 96 h; Pimephales promelas)
EC50 Daphnia 1	175 - 231 mg/l (EC50; 48 h)
Bis(2-chloroisopropyl) ether (108-60-1)	
LC50 fish 1	71.2 mg/l (LC50; 48 h)
Bis(2-ethylhexyl) phthalate (117-81-7)	
Threshold limit algae 1	> 130 mg/l (EC50; 72 h; Algae)
4-bromodiphenyl ether (101-55-3)	
LC50 fish 1	4.9 mg/l (LC50; 96 h; Lepomis macrochirus)
EC50 Daphnia 1	0.36 mg/l (EC50; 48 h)
benzyl butyl phthalate (85-68-7)	
LC50 fish 2	0.82 mg/l (LC50; 96 h)
EC50 Daphnia 2	0.97 mg/l (EC50; 48 h)
carbazole (86-74-8)	
EC50 Daphnia 1	2.3 - 4.9 mg/l (EC50; 48 h)
LC50 fish 2	0.93 mg/l (LC50; 96 h)
4-chloroaniline (106-47-8)	
EC50 Daphnia 1	0.31 mg/l (EC50; 48 h)
LC50 fish 2	11 mg/l (LC50; 96 h; Salmo gairdneri)
4-chloro-3-methylphenol (59-50-7)	
LC50 fish 2	0.917 mg/l (LC50; 96 h)
EC50 Daphnia 2	2 mg/l (EC50; 48 h)
Threshold limit algae 1	4.2 mg/l (EC50; 72 h)
2-chlorophenol (95-57-8)	
LC50 fish 1	2.6 mg/l (LC50; 96 h; Salmo gairdneri)
EC50 Daphnia 1	7.4 mg/l (EC50; 48 h; Daphnia magna)
Threshold limit algae 2	70 mg/l (EC50; 72 h; Algae)
4-Chlorodiphenyl ether (7005-72-3)	
LC50 fish 1	0.73 mg/l 96 h
chrysene (218-01-9)	
EC50 Daphnia 1	0.0007 mg/l (LC50; 24 h)
Threshold limit algae 1	0.001 mg/l (EC0)

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dibenz(a,h)anthracene (53-70-3)	
EC50 Daphnia 1	0.0004 mg/l (LC50; 3 h)
dibenzofuran (132-64-9)	
LC50 fish 1	1.78 - 1.85 mg/l (LC50; 96 h)
EC50 Daphnia 1	1.7 mg/l (LC50; 48 h)
1,2-dichlorobenzene (95-50-1)	
LC50 fish 1	1.58 mg/l (LC50; 96 h)
EC50 Daphnia 2	0.74 mg/l (EC50; 48 h)
1,3-dichlorobenzene (541-73-1)	
LC50 fish 1	1.61 mg/l (LC50; 96 h)
EC50 Daphnia 1	1.2 mg/l (EC50; Equivalent or similar to OECD 202; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
1,4-dichlorobenzene (106-46-7)	
LC50 fish 2	1.12 mg/l (LC50; 96 h; Salmo gairdneri)
EC50 Daphnia 2	0.7 mg/l (EC50; 48 h)
2,6-dichlorophenol (87-65-0)	
LC50 fish 1	6.4 mg/l (LC50; 96 h; Oryzias latipes)
EC50 Daphnia 1	3.4 mg/l (EC50; 48 h; Daphnia magna)
Threshold limit algae 2	9.7 mg/l (EC50; 96 h; Chlorella vulgaris)
2,4-Dimethylphenol (105-67-9)	
LC50 fish 1	7.8 mg/l (LC50; 96 h)
EC50 Daphnia 1	2.1 mg/l (EC50; 48 h)
Threshold limit algae 2	32 mg/l (EC50; 72 h)
dibutyl phthalate (84-74-2)	
LC50 fish 1	0.85 ppm (LC50; 96 h)
EC50 other aquatic organisms 1	9 mg/l (48 h; Scenedesmus subspicatus; Growth rate)
EC50 Daphnia 2	3.1 - 3.8 mg/l (EC50; 48 h)
di-n-octyl phthalate (117-84-0)	
LC50 fish 2	0.69 mg/l (LC50; 168 h)
1,2-dinitrobenzene (528-29-0)	
LC50 fish 1	2 mg/l (LC50)
1,3-dinitrobenzene (99-65-0)	
LC50 fish 1	1.7 mg/l (LC50; 96 h)
EC50 Daphnia 1	27.4 mg/l (EC50; 48 h)
1,4-dinitrobenzene (100-25-4)	
LC50 fish 1	0.6 mg/l (LC50; 96 h)
EC50 Daphnia 1	450 mg/l (EC50; 48 h)
Threshold limit algae 1	340 mg/l (EC50; 72 h)
4,6-Dinitro-2-methylphenol (534-52-1)	
LC50 fish 1	0.066 mg/l (LC50; 96 h)
EC50 Daphnia 1	0.145 mg/l (EC50; 48 h)
2,4-dinitrophenol (51-28-5)	
LC50 fish 1	0.62 mg/l (LC50; 96 h; Lepomis macrochirus)
EC50 Daphnia 1	4.39 mg/l (EC50; 48 h)
hydrazobenzene (122-66-7)	
LC50 fish 1	0.27 mg/l (LC50; 96 h; Lepomis macrochirus)
EC50 Daphnia 2	2.18 mg/l (EC50; 48 h)
fluoranthene (206-44-0)	
LC50 fish 1	0.0077 mg/l (LC50; 96 h)
EC50 Daphnia 1	< 0.1 mg/l (EC50; 72 h)
Threshold limit algae 1	54 mg/l (EC50; 96 h)
Hexachlorocyclopentadiene (77-47-4)	
LC50 fish 1	0.007 mg/l (LC50; 96 h; Pimephales promelas; Flow-through system; Fresh water)
EC50 other aquatic organisms 1	0.19 mg/l (96 h; Selenastrum capricornutum; Growth rate)
hexachloroethane (67-72-1)	
EC50 Daphnia 1	1.4 mg/l (EC50)

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hexachloroethane (67-72-1)	
LC50 fish 2	0.84 mg/l (LC50; 96 h)
Threshold limit algae 1	7.75 mg/l (EC50; 96 h)
isophorone (78-59-1)	
LC50 fish 1	145 - 255 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	117 mg/l (48 h; Daphnia magna)
EC50 other aquatic organisms 1	126 mg/l (96 h; Selenastrum capricornutum; Growth rate)
LC50 fish 2	220 mg/l (96 h; Lepomis macrochirus)
TLM fish 1	1 - 100, Pisces; Nocivity test
Threshold limit algae 1	475.4 mg/l (72 h; Scenedesmus subspicatus; Growth rate)
2-Methylphenol (95-48-7)	
EC50 other aquatic organisms 1	65 mg/l (96 h; Selenastrum capricornutum)
LC50 fish 2	7.9 - 8.4 mg/l (LC50; 96 h)
EC50 Daphnia 2	5 - 9.5 mg/l (EC50; 48 h)
3-Methylphenol (108-39-4)	
LC50 fish 1	8.9 mg/l (LC50; 96 h; Salmo gairdneri)
EC50 Daphnia 1	8.9 mg/l (EC50; 24 h)
Threshold limit algae 1	15 mg/l (EC0; 192 h)
4-Methylphenol (106-44-5)	
LC50 fish 2	7.5 mg/l (LC50; 96 h)
EC50 Daphnia 2	1.4 - 21.1 mg/l (EC50; 48 h)
Threshold limit algae 2	21 mg/l (EC50; 48 h)
naphthalene (91-20-3)	
EC50 Daphnia 1	2.16 mg/l (EC50; 48 h; Daphnia magna)
LC50 fish 2	0.11 mg/l (LC50; 96 h; Oncorhynchus mykiss)
Threshold limit algae 1	0.4 mg/l (EC50; 72 h; Skeletonema costatum)
2-Nitroaniline (88-74-4)	
EC50 Daphnia 1	10 - 18 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)
LC50 fish 2	10 - 22 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio)
3-Nitroaniline (99-09-2)	
LC50 fish 2	134.31 mg/l (LC50; 96 h)
nitrobenzene (98-95-3)	
LC50 fish 1	4.3 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 48 h; Oryzias latipes)
N-Nitrosodiethylamine (55-18-5)	
LC50 fish 1	775 mg/l (LC50; 96 h)
N-nitrosodiphenylamine (86-30-6)	
EC50 Daphnia 1	7.8 mg/l (EC50; 48 h)
LC50 fish 2	5.8 mg/l (LC50; 96 h; Lepomis macrochirus)
2,3,4,5,6-pentachlorophenol (87-86-5)	
LC50 fish 1	0.052 mg/l (LC50; 96 h)
EC50 Daphnia 1	0.01 - 0.36 mg/l (EC50; 48 h)
phenol (108-95-2)	
LC50 other aquatic organisms 1	0.04 mg/l (4 days; Rana sp.; LC50)
EC50 Daphnia 2	6.6 mg/l (EC50; 48 h; Daphnia magna; Static system)
pyrene (129-00-0)	
EC50 Daphnia 1	> 0.0057 mg/l (LC50; 3.4 h)
EC50 other aquatic organisms 1	1.6 mg/l (3 h; Chlorella vulgaris)
LC50 fish 2	0.0026 mg/l (LC50; 96 h)
pyridine (110-86-1)	
LC50 fish 1	4.6 mg/l (LC50; 96 h)
EC50 Daphnia 2	495 mg/l (EC50; 48 h)
2,3,4,6-tetrachlorophenol (58-90-2)	
LC50 fish 1	0.14 mg/l (LC50; 96 h; Lepomis macrochirus)
EC50 Daphnia 1	0.01 mg/l (EC50; 48 h)
Threshold limit algae 2	1.3 mg/l (EC50; 96 h)

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2,3,5,6-tetrachlorophenol (935-95-5)	
EC50 other aquatic organisms 1	1.01 mg/l (48 h; Protozoa; Growth)
1,2,4-trichlorobenzene (120-82-1)	
LC50 fish 1	1.32 mg/l (LC50; 96 h)
EC50 Daphnia 1	0.86 mg/l (EC50; 48 h)
1,3,5-trinitrobenzene (99-35-4)	
LC50 fish 1	0.52 mg/l (LC50; 96 h)
EC50 Daphnia 1	2.7 mg/l (EC50; 48 h)
Threshold limit algae 1	0.1 mg/l (EC0; 120 h)
Methylene Chloride (75-09-2)	
LC50 fish 1	193 mg/l (LC50; 96 h; Pimephales promelas)
EC50 Daphnia 1	168.2 mg/l (EC50; 48 h)

12.2. Persistence and degradability

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Persistence and degradability	May cause long-term adverse effects in the environment.
aniline (62-53-3)	
Persistence and degradability	Readily biodegradable in water. Photodegradation in water. Inhibition of nitrification. Biodegradable in the soil. Low potential for adsorption in soil.
BOD (% of ThOD)	0.62
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
benzo[a]anthracene (56-55-3)	
Persistence and degradability	Not readily biodegradable in water. Photolysis in water. Ozonation in water. Forming sediments in water. Biodegradability in soil: no data available. Inhibits biodegradation processes in the soil. Adsorbs into the soil. Photodegradation in the air.
ThOD	2.95 g O ₂ /g substance
benzo[a]pyrene (50-32-8)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil.
Chemical oxygen demand (COD)	2.92 g O ₂ /g substance
ThOD	2.92 g O ₂ /g substance
benzo(ghi)perylene (191-24-2)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
ThOD	2.9 g O ₂ /g substance
benzo[k]fluoranthene (207-08-9)	
Persistence and degradability	Not readily biodegradable in water. Ozonation in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
ThOD	2.92 g O ₂ /g substance
diphenyl (92-52-4)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water.
Biochemical oxygen demand (BOD)	1.08 g O ₂ /g substance
ThOD	3.01 g O ₂ /g substance
BOD (% of ThOD)	0.36
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-chloroisopropyl) ether (108-60-1)	
Persistence and degradability	Not 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.

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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.
carbazole (86-74-8)	
Persistence and degradability	Not readily biodegradable in water.
4-chloroaniline (106-47-8)	
Persistence and degradability	Inherently biodegradable. Not readily biodegradable in water. Photooxidation in water. Non degradable in the soil. Photolysis in the air.
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.
2,3-dichloroaniline (608-27-5)	
Persistence and degradability	Not readily biodegradable in water. Photolysis in the air.
1,2-dichlorobenzene (95-50-1)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
BOD (% of ThOD)	0
1,3-dichlorobenzene (541-73-1)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Low potential for adsorption in soil.
1,4-dichlorobenzene (106-46-7)	
Persistence and degradability	Readily biodegradable in water. Non degradable in the soil. Adsorbs into the soil.
ThOD	1.52 g O ₂ /g substance
BOD (% of ThOD)	0.65 (Calculated value)
2,6-dichlorophenol (87-65-0)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Adsorbs into the soil.
BOD (% of ThOD)	0.148 (3 h)
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
di-n-octyl phthalate (117-84-0)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water.
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.

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hydrazobenzene (122-66-7)	
Persistence and degradability	Not readily biodegradable in water.
fluoranthene (206-44-0)	
Persistence and degradability	Forming sediments in water.
Hexachlorocyclopentadiene (77-47-4)	
Persistence and degradability	Not readily biodegradable in water. Photolysis in water. Biodegradable in the soil. Adsorbs into the soil. Photolysis in the air.
hexachloroethane (67-72-1)	
Persistence and degradability	Not readily biodegradable in water.
isophorone (78-59-1)	
Persistence and degradability	Readily biodegradable in water. Ozonation in the air. Photolysis in the air.
ThOD	2.78 g O ₂ /g substance
2-Methylphenol (95-48-7)	
Persistence and degradability	Readily biodegradable in water. Photodegradation in the air.
Biochemical oxygen demand (BOD)	1.69 - 1.74 g O ₂ /g substance
Chemical oxygen demand (COD)	2.38 g O ₂ /g substance
ThOD	2.52 g O ₂ /g substance
BOD (% of ThOD)	0.65
3-Methylphenol (108-39-4)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.
Biochemical oxygen demand (BOD)	1.7 g O ₂ /g substance
Chemical oxygen demand (COD)	2.4 g O ₂ /g substance
ThOD	2.52 g O ₂ /g substance
BOD (% of ThOD)	0.68
4-Methylphenol (106-44-5)	
Persistence and degradability	Readily biodegradable in water. Photolysis in the air.
Biochemical oxygen demand (BOD)	1.45 g O ₂ /g substance
Chemical oxygen demand (COD)	2.4 g O ₂ /g substance
ThOD	2.52 g O ₂ /g substance
BOD (% of ThOD)	0.57
naphthalene (91-20-3)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	0 g O ₂ /g substance
Chemical oxygen demand (COD)	0.22 g O ₂ /g substance
ThOD	2.99 g O ₂ /g substance
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.
nitrobenzene (98-95-3)	
Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	0 g O ₂ /g substance
ThOD	1.95 g O ₂ /g substance
BOD (% of ThOD)	0
N-Nitrosodiethylamine (55-18-5)	
Persistence and degradability	Not readily biodegradable in water.
N-Nitrosodimethylamine (62-75-9)	
Persistence and degradability	Not readily biodegradable in water. Photolysis in water. Photolysis in the air.
N-nitrosodiphenylamine (86-30-6)	
Persistence and degradability	Not readily biodegradable in water. Biodegradability in soil: no data available.
pentachlorobenzene (608-93-5)	
Persistence and degradability	Not readily biodegradable in water. Biodegradability in soil: no data available.
2,3,4,5,6-pentachlorophenol (87-86-5)	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.

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phenol (108-95-2)	
Persistence and degradability	Readily biodegradable in water. Photolysis in water. Readily biodegradable in the soil. Inhibits biodegradation processes in the soil. Low potential for adsorption in soil. Photooxidation in the air.
Biochemical oxygen demand (BOD)	1.68 g O ₂ /g substance
Chemical oxygen demand (COD)	2.28 g O ₂ /g substance
ThOD	2.38 g O ₂ /g substance
BOD (% of ThOD)	0.71
pyrene (129-00-0)	
Persistence and degradability	Not readily biodegradable in water. Photolysis in water. Ozonation in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil. Photodegradation in the air.
pyridine (110-86-1)	
Persistence and degradability	Readily biodegradable in water. Non degradable in the soil. Biodegradable in the soil under anaerobic conditions.
Biochemical oxygen demand (BOD)	1.15 g O ₂ /g substance
Chemical oxygen demand (COD)	0.05 g O ₂ /g substance
ThOD	2.23 g O ₂ /g substance
BOD (% of ThOD)	0.52
1,2,4,5-tetrachlorobenzene (95-94-3)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.
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
1,3,5-trinitrobenzene (99-35-4)	
Persistence and degradability	Not readily biodegradable in water.
Methylene Chloride (75-09-2)	
Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil.
12.3. Bioaccumulative potential	
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Bioaccumulative potential	Not established.
aniline (62-53-3)	
BCF fish 2	2.6 (BCF; Danio rerio; Static system)
Log Pow	0.91 (Experimental value; EU Method A.8: Partition Coefficient; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
anthracene (120-12-7)	
BCF fish 1	903 - 2820 (BCF)
BCF fish 2	9200 (BCF)
BCF other aquatic organisms 1	7770 (BCF; 24 h; Chlorella sp.)
BCF other aquatic organisms 2	10500 (BCF)
Log Pow	4.5
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
benzo[a]anthracene (56-55-3)	
BCF fish 1	350 (BCF; 72 h)
BCF other aquatic organisms 1	1106 (BCF; 24 h)
BCF other aquatic organisms 2	18000 (BCF; 192 h)
Log Pow	5.61 - 5.79
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
benzo[a]pyrene (50-32-8)	
BCF fish 1	480 (BCF; 72 h)
BCF fish 2	70.7 (BCF; 168 h; Salmo salar)
BCF other aquatic organisms 1	3000 (BCF; 192 h)

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benzo[a]pyrene (50-32-8)	
BCF other aquatic organisms 2	1.5 (BCF; 24 h)
Log Pow	5.97 - 6.06
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
benzo(ghi)perylene (191-24-2)	
Log Pow	6.51 - 7.23 (Calculated)
Bioaccumulative potential	Bioaccumable.
benzo[k]fluoranthene (207-08-9)	
BCF fish 1	8750 (BCF)
BCF other aquatic organisms 1	0.0013 mg/kg (BCF)
BCF other aquatic organisms 2	37000 (BCF)
Log Pow	6.84
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
diphenyl (92-52-4)	
BCF fish 1	437 (BCF)
BCF other aquatic organisms 1	540 (BCF; 24 h; Chlorella sp.)
Log Pow	3.16 - 4.09
Bioaccumulative potential	Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$).
bis(2-chloroethoxy) methane (111-91-1)	
Log Pow	1.3 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Bis(2-chloroisopropyl) ether (108-60-1)	
BCF fish 1	< <5.2/12,BCF
Log Pow	2.48
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Bis(2-ethylhexyl) phthalate (117-81-7)	
BCF fish 2	155 - 886 (BCF; 56 days; Pimephales promelas)
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 (BCF)
BCF other aquatic organisms 1	1300 (BCF)
Log Pow	4.28 - 5.243
Bioaccumulative potential	Bioaccumable.
benzyl butyl phthalate (85-68-7)	
BCF fish 1	188 (BCF; 408 h)
BCF fish 2	663 (BCF; 504 h)
BCF other aquatic organisms 1	26 - 270 (BCF)
Log Pow	3.57 - 5.8
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
carbazole (86-74-8)	
BCF fish 1	34 - 241 (BCF)
BCF fish 2	500 (BCF)
BCF other aquatic organisms 1	115 (BCF)
BCF other aquatic organisms 2	108 (BCF; 24 h)
Log Pow	3.84 (OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)
Bioaccumulative potential	Potential for bioaccumulation ($500 \leq \text{BCF} \leq 5000$).
4-chloroaniline (106-47-8)	
BCF fish 1	< 20 (BCF; 72 h)
BCF fish 2	0.8 - 1.7 (BCF; 336 h)
BCF other aquatic organisms 1	260 (BCF; 24 h; Chlorella sp.)
Log Pow	1.76 - 1.83
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
4-chloro-3-methylphenol (59-50-7)	
BCF fish 1	5.5 - 13 (BCF)
Log Pow	2.78 - 3.10
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

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2-chlorophenol (95-57-8)	
BCF fish 2	14 - 29 (BCF; 6 weeks; Cyprinus carpio)
Log Pow	2.15 (Literature)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
4-Chlorodiphenyl ether (7005-72-3)	
Log Pow	4.2
chrysene (218-01-9)	
BCF other aquatic organisms 1	4440 (BCF)
Log Pow	5.81 - 5.86 (Experimental value)
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
dibenz(a,h)anthracene (53-70-3)	
Log Pow	5.97 - 6.84
dibenzofuran (132-64-9)	
BCF fish 1	2420 (BCF)
BCF fish 2	524 - 2420 (BCF)
Log Pow	4.12 - 5.16
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
2,3-dichloroaniline (608-27-5)	
BCF fish 1	10 - 100 (BCF)
Log Pow	2.78
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
1,2-dichlorobenzene (95-50-1)	
BCF fish 1	90 - 260 (BCF)
BCF fish 2	270 - 560 (BCF)
BCF other aquatic organisms 1	14791 (BCF)
BCF other aquatic organisms 2	28840 (BCF)
Log Pow	3.43 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
1,3-dichlorobenzene (541-73-1)	
BCF fish 1	420 - 740 (BCF)
BCF fish 2	57 - 370 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 8 weeks; Cyprinus carpio; Flow-through system; Fresh water; Experimental value)
Log Pow	3.4 - 4.6
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
1,4-dichlorobenzene (106-46-7)	
BCF fish 1	100 (BCF)
BCF fish 2	214 - 720 (BCF)
BCF other aquatic organisms 1	20 (BCF)
Log Pow	3.39 - 3.62 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
2,6-dichlorophenol (87-65-0)	
BCF fish 1	4.1 - 20 (BCF; 8 weeks; Cyprinus carpio)
Log Pow	2.57 - 3.33 (Literature)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2,4-Dimethylphenol (105-67-9)	
BCF fish 1	150 (BCF; 672 h; Lepomis macrochirus)
Log Pow	2.2 - 2.5
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
dibutyl phthalate (84-74-2)	
BCF fish 1	12 (BCF)
BCF fish 2	117 (BCF)
BCF other aquatic organisms 1	22 - 42 (BCF)
BCF other aquatic organisms 2	5000 (BCF; 72 h)
Log Pow	3.23 - 5.6
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
di-n-octyl phthalate (117-84-0)	
BCF fish 1	116 (BCF)
BCF fish 2	9400 (BCF; 792 h; Gambusia affinis)

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di-n-octyl phthalate (117-84-0)	
BCF other aquatic organisms 1	2600 (BCF; 792 h)
BCF other aquatic organisms 2	28500 (BCF; 792 h)
Log Pow	4.6 - 9.2
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
1,2-dinitrobenzene (528-29-0)	
BCF fish 1	10 (BCF)
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 (BCF; 72 h)
BCF fish 2	74.13 (BCF)
Log Pow	1.49 - 1.6
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
1,4-dinitrobenzene (100-25-4)	
BCF fish 1	5 (BCF)
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 (BCF)
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 (BCF)
Log Pow	1.05 - 1.59
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
hydrazobenzene (122-66-7)	
Log Pow	2.94
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
fluoranthene (206-44-0)	
BCF fish 1	3981 (BCF)
BCF fish 2	6110 (BCF)
BCF other aquatic organisms 1	10000 (BCF; 192 h)
BCF other aquatic organisms 2	695 (BCF; 48 h)
Log Pow	5.33
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
Hexachlorocyclopentadiene (77-47-4)	
BCF fish 1	1230 (BCF; 72 h; Leuciscus idus)
BCF other aquatic organisms 1	1090 (BCF; 24 h; Chlorella sp.)
Log Pow	3.99-5.51
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
hexachloroethane (67-72-1)	
BCF fish 1	1200 (BCF)
BCF fish 2	756 mg/l (BCF; 768 h)
Log Pow	3.34 - 4.62
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
isophorone (78-59-1)	
BCF fish 1	7 (24 h; Lepomis macrochirus)
BCF fish 2	< 1.1/<10,Cyprinus carpio; Test duration: 6 weeks
Log Pow	1.7 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2-Methylphenol (95-48-7)	
Log Pow	1.5 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
3-Methylphenol (108-39-4)	
BCF fish 1	20 (BCF; 72 h)
BCF fish 2	10.7 (BCF)

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3-Methylphenol (108-39-4)	
BCF other aquatic organisms 1	4900 (BCF; 24 h)
Log Pow	1.96 - 2.01 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
4-Methylphenol (106-44-5)	
BCF fish 1	4 (BCF)
Log Pow	1.97 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
naphthalene (91-20-3)	
BCF fish 1	23 - 168 (BCF; 8 weeks; Cyprinus carpio)
Log Pow	3.3 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2-Nitroaniline (88-74-4)	
BCF fish 1	2.1 - 4.9 (BCF)
BCF fish 2	8.1 (BCF; 24 h; Brachydanio rerio)
Log Pow	1.44 - 1.83
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
3-Nitroaniline (99-09-2)	
BCF fish 1	< 1.1/<10,BCF
Log Pow	1.37
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
nitrobenzene (98-95-3)	
BCF fish 1	15 (BCF; 672 h)
BCF fish 2	1.6 - 7.7 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 42 days; Cyprinus carpio; Flow-through system; Fresh water; Experimental value)
BCF other aquatic organisms 1	24 (BCF)
Log Pow	1.85 (Calculated; 1.86; Experimental value; EU Method A.8: Partition Coefficient)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
N-Nitrosodiethylamine (55-18-5)	
BCF other aquatic organisms 1	1 (BCF)
Log Pow	0.48
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
N-Nitrosodimethylamine (62-75-9)	
Log Pow	-0.77 - -0.57
Bioaccumulative potential	Bioaccumulation: not applicable.
N-nitrosodiphenylamine (86-30-6)	
BCF fish 1	217 (BCF; 336 h; Lepomis macrochirus)
BCF fish 2	4.6 - 38 (BCF)
Log Pow	3.13 - 3.96
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
N-Nirosodi-n-propylamine (621-64-7)	
Log Pow	1.31 - 1.36
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
pentachlorobenzene (608-93-5)	
BCF fish 1	3000 (BCF; 72 h)
BCF fish 2	6840 (BCF)
BCF other aquatic organisms 1	16000 (BCF)
BCF other aquatic organisms 2	4000 (BCF; 24 h)
Log Pow	4.88 - 5.69
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
2,3,4,5,6-pentachlorophenol (87-86-5)	
BCF fish 1	770 (BCF; 768 h)
BCF fish 2	39 - 224 (BCF)
BCF other aquatic organisms 1	1250 (BCF)
Log Pow	4.07 - 5.19
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
phenol (108-95-2)	
Log Pow	1.47 (Experimental value; Equivalent or similar to OECD 117; 30 °C)

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phenol (108-95-2)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
pyrene (129-00-0)	
BCF fish 1	600 - 970 (BCF)
BCF fish 2	4810 (BCF)
BCF other aquatic organisms 1	2692 (BCF)
Log Pow	4.88 - 5.32
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
pyridine (110-86-1)	
Log Pow	0.65 - 1.04 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
1,2,4,5-tetrachlorobenzene (95-94-3)	
BCF fish 1	13000 (BCF)
BCF fish 2	1650 - 4830 (BCF)
BCF other aquatic organisms 1	> 5012 (BCF)
Log Pow	4.5 - 4.98
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
2,3,4,6-tetrachlorophenol (58-90-2)	
BCF fish 1	200 (BCF; 24 h)
BCF fish 2	93 (BCF; 24 h)
Log Pow	4.1 - 4.8
Bioaccumulative potential	Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$).
2,3,5,6-tetrachlorophenol (935-95-5)	
Log Pow	3.88 - 4.92
Bioaccumulative potential	No bioaccumulation data available.
1,2,4-trichlorobenzene (120-82-1)	
BCF fish 1	1200 - 3700 (BCF)
BCF fish 2	1140 - 4420 (BCF)
BCF other aquatic organisms 1	250 (BCF; 24 h; Chlorella sp.)
BCF other aquatic organisms 2	142 (BCF)
Log Pow	4.02 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation ($500 \leq \text{BCF} \leq 5000$).
1,3,5-trinitrobenzene (99-35-4)	
Log Pow	1.18
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Methylene Chloride (75-09-2)	
BCF fish 1	2 - 40 (BCF)
Log Pow	1.25 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
12.4. Mobility in soil	
aniline (62-53-3)	
Surface tension	0.071 N/m (20 °C; 0.042 N/m; 25 °C; 0.039 N/m; 50 °C; 0.037 N/m; 75 °C)
Log Koc	Koc,130; Experimental value; GLP
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)
Log Koc	log Koc,Other; 2.56; Experimental value

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1,4-dichlorobenzene (106-46-7)	
Surface tension	0.03 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.
Hexachlorocyclopentadiene (77-47-4)	
Surface tension	0.0375 N/m (20 °C)
Log Koc	Koc,4265; Experimental value
isophorone (78-59-1)	
Surface tension	0.032 N/m
2-Methylphenol (95-48-7)	
Surface tension	0.04 N/m (20 °C)
3-Methylphenol (108-39-4)	
Surface tension	0.04 N/m (20 °C)
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
4-Methylphenol (106-44-5)	
Surface tension	0.041 N/m (40 °C)
naphthalene (91-20-3)	
Surface tension	0.03 N/m (100 °C)
nitrobenzene (98-95-3)	
Surface tension	0.0439 N/m
Log Koc	Koc,Other; 118; Calculated value; log Koc; Other; 2.07; Calculated value
phenol (108-95-2)	
Surface tension	0.0713 N/m (20 °C)
pyridine (110-86-1)	
Surface tension	0.038 N/m (20 °C)
1,2,4-trichlorobenzene (120-82-1)	
Surface tension	0.039 N/m (20 °C)
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	
(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
benzyl butyl phthalate (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
dibutyl phthalate (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

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR) : 2810
UN-No. (IATA) : 2810
UN-No. (IMDG) : 2810
UN-No. (ADN) : 2810

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14.2. UN proper shipping name

Proper Shipping Name (ADR)	: TOXIC LIQUID, ORGANIC, N.O.S.
Proper Shipping Name (IATA)	: Toxic liquid, organic, n.o.s.
Proper Shipping Name (IMDG)	: TOXIC LIQUID, ORGANIC, N.O.S.
Proper Shipping Name (ADN)	: TOXIC LIQUID, ORGANIC, N.O.S.
Transport document description (ADR)	: UN 2810 TOXIC LIQUID, ORGANIC, N.O.S., 6.1, III, (E), ENVIRONMENTALLY HAZARDOUS

14.3. Packing group

Class (ADR)	: 6.1
Classification code (ADR)	: T1
Class (IATA)	: 6.1
Class (IMDG)	: 6.1
Class (ADN)	: 6.1
Classification code (ADN)	: T1
Hazard labels (ADR)	: 6.1



Division (IATA)	: 6.1
Hazard labels (IATA)	: 6.1



Hazard labels (IMDG)	: 6.1
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Hazard labels (ADN)	: 6.1
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14.4. Packing group

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

14.5. Environmental hazards

Dangerous for the environment	:
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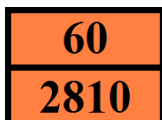


Other information	: No supplementary information available.
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14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.)	: 60
Classification code (ADR)	: T1
Orange plates	:



Special provision (ADR)	: 274, 614
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Transport category (ADR)	: 2
Tunnel restriction code (ADR)	: E
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
EAC	: 2X
APP	: B

14.6.2. Transport by sea

Special provision (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Toxic if swallowed, by skin contact or by inhalation.

14.6.3. Air transport

CAO packing instructions (IATA)	: 663
CAO max net quantity (IATA)	: 220L
PCA packing instructions (IATA)	: 655
PCA Limited quantities (IATA)	: Y642
PCA limited quantity max net quantity (IATA)	: 2L
PCA max net quantity (IATA)	: 60L
PCA Excepted quantities (IATA)	: E1
Special provision (IATA)	: A3, A4, A137
ERG code (IATA)	: 6L

14.6.4. Inland waterway transport

Special provision (ADN)	: 274, 614, 802
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP, TOX, A
Ventilation (ADN)	: VE02
Number of blue cones/lights (ADN)	: 0
Carriage prohibited (ADN)	: No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains substance on the candidate list in concentration $\geq 0.1\%$ or with a lower specific limit: Benzo[def]chrysene (EC 200-028-5, CAS 50-32-8), Bis (2-ethyl(hexyl)phthalate) (DEHP) (EC 204-211-0, CAS 117-81-7), Benzyl butyl phthalate (BBP) (EC 201-622-7, CAS 85-68-7), Dibutyl phthalate (DBP) (EC 201-557-4, CAS 84-74-2)

Contains no REACH Annex XIV substances \geq to the Annex XIV limit value

15.1.2. National regulations

Germany

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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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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