Custom 8270 Mix with Surrogates

Safety Data Sheet

Date of issue: 14/02/2017 Revision date: : Version: 1.0

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

1.1. Product identifier

Product form	:	Mixture
Product name	:	Custom 8270 Mix with Surrogates
Product code	:	AL0-130067
Product group	:	Trade product

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

1.2.1. Relevant identified uses

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

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Phenova
6390 Joyce Dr. Suite 100
80403 Golden, CO - United States
T 1-866-942-2978 - F 1-866-283-0269
info@phenova.com - www.phenova.com

1.4. Emergency telephone number

Emergency number	:	ChemTel Assistance (US/Canada) 1-800-255-3924 ChemTel Assistance (International) +1 813-248-0585

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 2	H225
Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Dermal)	H312
Acute Tox. 4 (Inhalation)	H332
Muta. 1B	H340
Carc. 1A	H350
STOT SE 2	H371
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

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

Carc.Cat.1; R45
Muta.Cat.2; R46
F; R11
E; R2
Xn; R20/21/22
Xn; R68/20/21/22
N; R50/53
R44

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS02 GHS07 GHS08 GHS09

Signal word (CLP) : Danger

Hazardous ingredients : 2,4-Dimethylphenol; 2,4-dinitrotoluene; 2,4-dichlorophenol; 2,4-dinitrophenol; 2,6-dinitrotoluene; 4-chloroaniline; 4,6-Dinitro-2-methylphenol; 2-Nitroaniline; 3-Nitroaniline; 2-Methylphenol; benzidine; 4-Nitroaniline; 4-Methylphenol; Bis(2-chloroisopropyl) ether; bis(2-chloroethoxy) methane; bis(2-chloroethyl) ether; acenaphthylene; benzo[a]pyrene; aniline; methanol; hexachlorobuta-1,3-diene; nitrobenzene; 2,3,4,5,6-pentachlorophenol; Phenol; nitrobenzene-D5; phenol; Hexachlorocyclopentadiene; N-Nitrosodimethylamine

Hazard statements (CLP) : H225 - Highly flammable liquid and vapor
H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
H340 - May cause genetic defects
H350 - May cause cancer
H371 - May cause damage to organs
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233 - Keep container tightly closed
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P308+P313 - IF exposed or concerned: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P391 - Collect spillage
P403+P235 - Store in a well-ventilated place. Keep cool

EUH phrases : EUH208 - Contains 3,3'-dichlorobenzidine(91-94-1), 4-chloroaniline(106-47-8), 4,6-dinitro-o-cresol(534-52-1), 4-chloro-3-methylphenol(59-50-7), benzo[a]pyrene(50-32-8), aniline(62-53-3), phenanthrene(85-01-8). May produce an allergic reaction
EUH044 - Risk of explosion if heated under confinement

No labeling applicable

2.3. Other hazards

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

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

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

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	87	Carc. 2, H351
methanol (Component)	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X	5	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
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
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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,3-dichlorbenzene (Component)	(CAS No) 541-73-1 (EC no) 208-792-1 (EC index no) 602-067-00-7	0.1	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411
1,4-dichlorobenzene (Component)	(CAS No) 106-46-7 (EC no) 203-400-5 (EC index no) 602-035-00-2	0.1	Eye Irrit. 2, H319 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2-dichlorobenzene-d4 (Component)	(CAS No) 2199-69-1 (EC no) 218-606-0 (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-methylnaphthalene (Component)	(CAS No) 90-12-0 (EC no) 201-966-8	0.1	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411
2,4,6-tribromophenol (Component)	(CAS No) 118-79-6 (EC no) 204-278-6	0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
2,4-Dimethylphenol (Component)	(CAS No) 105-67-9 (EC no) 203-321-6 (EC index no) 604-006-00-X	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Aquatic Chronic 2, H411
2,4-dinitrotoluene (Component) substance listed as REACH Candidate substance listed in REACH Annex XIV (2,4-Dinitrotoluene (2,4-DNT))	(CAS No) 121-14-2 (EC no) 204-450-0 (EC index no) 609-007-00-9	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Muta. 2, H341 Carc. 1B, H350 Repr. 2, H361f STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4-dichlorophenol (Component)	(CAS No) 120-83-2 (EC no) 204-429-6 (EC index no) 604-011-00-7	0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Aquatic Chronic 2, H411
2,4-dinitrophenol (Component)	(CAS No) 51-28-5 (EC no) 200-087-7 (EC index no) 609-041-00-4	0.1	Acute Tox. 2 (Oral), H300 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Acute 1, H400
2,6-dinitrotoluene (Component)	(CAS No) 606-20-2 (EC no) 210-106-0 (EC index no) 609-049-00-8	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Muta. 2, H341 Carc. 1B, H350 Repr. 2, H361f STOT RE 2, H373 Aquatic Chronic 3, H412
2,4,6-trichlorophenol (Component)	(CAS No) 88-06-2 (EC no) 201-795-9 (EC index no) 604-018-00-5	0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4,5-trichlorophenol (Component)	(CAS No) 95-95-4 (EC no) 202-467-8 (EC index no) 604-017-00-X	0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,3'-dichlorobenzidine (Component)	(CAS No) 91-94-1 (EC no) 202-109-0 (EC index no) 612-068-00-4	0.1	Acute Tox. 4 (Dermal), H312 Skin Sens. 1, H317 Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-Fluorobiphenyl (Component)	(CAS No) 321-60-8 (EC no) 206-290-7	0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-bromodiphenyl ether (Component)	(CAS No) 101-55-3 (EC no) 202-952-4	0.1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-chlorophenol (Component)	(CAS No) 95-57-8 (EC no) 202-433-2 (EC index no) 604-008-00-0	0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411
4,6-Dinitro-2-methylphenol (Component)	(CAS No) 534-52-1 (EC no) 208-601-1 (EC index no) 609-020-00-X	0.1	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
4-chloro-3-methylphenol (Component)	(CAS No) 59-50-7 (EC no) 200-431-6 (EC index no) 604-014-00-3	0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
2-Nitroaniline (Component)	(CAS No) 88-74-4 (EC no) 201-855-4 (EC index no) 612-012-00-9	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Chronic 3, H412
3-Nitroaniline (Component)	(CAS No) 99-09-2 (EC no) 202-729-1 (EC index no) 612-012-00-9	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Chronic 3, H412
2-Methylphenol (Component)	(CAS No) 95-48-7 (EC no) 202-423-8 (EC index no) 604-004-00-9	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314
2-methylnaphthalene (Component)	(CAS No) 91-57-6 (EC no) 202-078-3	0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
4-Chlorodiphenyl ether (Component)	(CAS No) 7005-72-3 (EC no) 230-281-7	0.1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
benzidine (Component)	(CAS No) 92-87-5 (EC no) 202-199-1 (EC index no) 612-042-00-2	0.1	Acute Tox. 4 (Oral), H302 Carc. 1A, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-Nitroaniline (Component)	(CAS No) 100-01-6 (EC no) 202-810-1 (EC index no) 612-012-00-9	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Chronic 3, H412
4-Methylphenol (Component)	(CAS No) 106-44-5 (EC no) 203-398-6 (EC index no) 604-004-00-9	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314
azobenzene (Component)	(CAS No) 103-33-3 (EC no) 203-102-5 (EC index no) 611-001-00-6	0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Muta. 2, H341 Carc. 1B, H350 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Bis(2-chloroisopropyl) ether (Component)	(CAS No) 108-60-1 (EC no) 203-598-3	0.1	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
hexachlorobenzene (Component)	(CAS No) 118-74-1 (EC no) 204-273-9 (EC index no) 602-065-00-6	0.1	Carc. 1B, H350 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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
bis(2-chloroethoxy) methane (Component)	(CAS No) 111-91-1 (EC no) 203-920-2	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2, H319
Bis(2-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
anthracene (Component) substance listed as REACH Candidate	(CAS No) 120-12-7 (EC no) 204-371-1	0.1	Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
bis(2-chloroethyl) ether (Component)	(CAS No) 111-44-4 (EC no) 203-870-1 (EC index no) 603-029-00-2	0.1	Flam. Liq. 3, H226 Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Carc. 2, H351
benzo(ghi)perylene (Component)	(CAS No) 191-24-2 (EC no) 205-883-8	0.1	Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410
dibenzofuran (Component)	(CAS No) 132-64-9 (EC no) 205-071-3	0.1	Aquatic Chronic 2, H411
fluoranthene (Component)	(CAS No) 206-44-0 (EC no) 205-912-4	0.1	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
chrysene (Component)	(CAS No) 218-01-9 (EC no) 205-923-4 (EC index no) 601-048-00-0	0.1	Muta. 2, H341 Carc. 1B, H350 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)
Benzo(b)fluoranthene (Component)	(CAS No) 205-99-2 (EC no) 205-911-9 (EC index no) 601-034-00-4	0.1	Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
acenaphthylene (Component)	(CAS No) 208-96-8 (EC no) 205-917-1	0.1	Acute Tox. 1 (Dermal), H310
benzo[k]fluoranthene (Component)	(CAS No) 207-08-9 (EC no) 205-916-6 (EC index no) 601-036-00-5	0.1	Carc. 1B, H350 Aquatic Acute 1, H400 (M=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	0.1	Skin Sens. 1, H317 Muta. 1B, H340 Carc. 1B, H350 Repr. 1B, H360FD Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
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
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
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
acenaphthene (Component)	(CAS No) 83-32-9 (EC no) 201-469-6	0.1	Eye Irrit. 2, H319 Aquatic Chronic 2, H411
dibenz(a,h)anthracene (Component)	(CAS No) 53-70-3 (EC no) 200-181-8 (EC index no) 601-041-00-2	0.1	Carc. 1B, H350 Aquatic Acute 1, H400 (M=1000) 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
fluorene (Component)	(CAS No) 86-73-7 (EC no) 201-695-5	0.1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
benzo[a]anthracene (Component)	(CAS No) 56-55-3 (EC no) 200-280-6 (EC index no) 601-033-00-9	0.1	Carc. 1B, H350 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
hexachlorobuta-1,3-diene (Component)	(CAS No) 87-68-3 (EC no) 201-765-5	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
naphthalene (Component)	(CAS No) 91-20-3 (EC no) 202-049-5 (EC index no) 601-052-00-2	0.1	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
nitrobenzene (Component) substance listed as REACH Candidate	(CAS No) 98-95-3 (EC no) 202-716-0 (EC index no) 609-003-00-7	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Carc. 2, H351 Repr. 1B, H360F STOT RE 1, H372 Aquatic Chronic 3, H412
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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
pyridine (Component) substance with a Community workplace exposure limit	(CAS No) 110-86-1 (EC no) 203-809-9 (EC index no) 613-002-00-7	0.1	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332
2,3,4,5,6-pentachlorophenol (Component)	(CAS No) 87-86-5 (EC no) 201-778-6 (EC index no) 604-002-00-8	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
Phenol (Component)	(CAS No) 13127-88-3 (EC no) 236-063-8 (EC index no) 604-001-00-2	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Muta. 2, H341 STOT RE 2, H373
nitrobenzene-D5 (Component) substance listed as REACH Candidate (Nitrobenzene)	(CAS No) 4165-60-0 (EC no) 224-014-3 (EC index no) 609-003-00-7	0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 Repr. 1B, H360F STOT RE 1, H372 Aquatic Chronic 3, H412
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
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
pyrene (Component)	(CAS No) 129-00-0 (EC no) 204-927-3	0.1	Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
indeno(1,2,3-cd)pyrene (Component)	(CAS No) 193-39-5 (EC no) 205-893-2	0.1	Carc. 1B, H350
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)
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
N-Nitrosodimethylamine (Component)	(CAS No) 62-75-9 (EC no) 200-549-8 (EC index no) 612-077-00-3	0.1	Acute Tox. 2 (Oral), H300 Acute Tox. 2 (Inhalation), H330 Carc. 1B, H350 STOT RE 1, H372 Aquatic Chronic 2, H411
phenanthrene (Component)	(CAS No) 85-01-8 (EC no) 201-581-5	0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
N-Nirosodi-n-propylamine (Component)	(CAS No) 621-64-7 (EC no) 210-698-0 (EC index no) 612-098-00-8	0.1	Acute Tox. 4 (Oral), H302 Carc. 1B, H350 Aquatic Chronic 2, H411

Name	Product identifier	Specific concentration limits
methanol (Component)	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X	(3 =<C < 10) STOT SE 2, H371 (C >= 10) STOT SE 1, H370
2,4,5-trichlorophenol (Component)	(CAS No) 95-95-4 (EC no) 202-467-8 (EC index no) 604-017-00-X	(C >= 5) Skin Irrit. 2, H315 (C >= 5) Eye Irrit. 2, H319
benzidine (Component)	(CAS No) 92-87-5 (EC no) 202-199-1 (EC index no) 612-042-00-2	(C >= 0.01) Carc. 1A, H350
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
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

Name	Product identifier	Specific concentration limits
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
Phenol (Component)	(CAS No) 13127-88-3 (EC no) 236-063-8 (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
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
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
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 : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse. Gently wash with plenty of soap and water.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

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

Symptoms/injuries after inhalation : May cause cancer by inhalation.

Symptoms/injuries after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

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

1,4-dichlorobenzene (106-46-7)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	450 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	75 ppm
USA OSHA	OSHA PEL (STEL) (mg/m³)	675 mg/m³
USA OSHA	OSHA PEL (STEL) (ppm)	110 ppm

2-Fluorobiphenyl (321-60-8)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	450 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	75 ppm
USA OSHA	OSHA PEL (STEL) (mg/m³)	675 mg/m³
USA OSHA	OSHA PEL (STEL) (ppm)	110 ppm

8.2. Exposure controls

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

Personal protective equipment : Avoid all unnecessary exposure. Wash ... thoroughly after handling. Gloves. Protective clothing. Protective goggles. Safety glasses.

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

Eye protection : Chemical goggles or safety glasses. Safety glasses.

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

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Other information : Do not eat, drink or smoke during use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color	:	Colorless.
Odor	:	characteristic.
pH	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
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: Harmful in contact with skin. Inhalation: Harmful if inhaled.

Custom 8270 Mix with Surrogates	
ATE CLP (oral)	946.410 mg/kg body weight
ATE CLP (dermal)	1225.492 mg/kg body weight
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h

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)	756.000 mg/kg body weight
ATE CLP (dermal)	6139.000 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)	500.000 mg/kg body weight
ATE CLP (vapors)	9.500 mg/l/4h
ATE CLP (dust, mist)	9.500 mg/l/4h

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

1,3-dichlorbenzene (541-73-1)	
LC50 inhalation rat (mg/l)	> 17.6 mg/l/4h (Rat; Literature study)
ATE CLP (oral)	580.000 mg/kg body weight

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

1,2-dichlorobenzene-d4 (2199-69-1)	
LD50 oral rat	> 500 mg/kg (Rat)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit)
ATE CLP (oral)	500.000 mg/kg body weight

1-methylnaphthalene (90-12-0)	
LD50 oral rat	1840 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit; Literature study)
ATE CLP (oral)	1840.000 mg/kg body weight

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

2,4,6-tribromophenol (118-79-6)	
LD50 oral rat	2000 mg/kg (Rat)
LD50 dermal rabbit	> 8000 mg/kg (Rabbit)
ATE CLP (oral)	2000.000 mg/kg body weight

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

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

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

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

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

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

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

2-chlorophenol (95-57-8)	
ATE CLP (dust, mist)	1.500 mg/l/4h
2-Fluorobiphenyl (321-60-8)	
ATE CLP (oral)	500.000 mg/kg body weight
2-methylnaphthalene (91-57-6)	
LD50 oral rat	1630 mg/kg (Rat)
ATE CLP (oral)	1630.000 mg/kg body weight
2-Methylphenol (95-48-7)	
LD50 oral rat	121 mg/kg (Rat)
LD50 dermal rat	620 mg/kg (Rat)
LD50 dermal rabbit	890 mg/kg (Rabbit)
ATE CLP (oral)	121.000 mg/kg body weight
ATE CLP (dermal)	620.000 mg/kg body weight
2-Nitroaniline (88-74-4)	
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
ATE CLP (gases)	700.000 ppmV/4h
ATE CLP (vapors)	3.000 mg/l/4h
ATE CLP (dust, mist)	0.500 mg/l/4h
3,3'-dichlorobenzidine (91-94-1)	
LD50 oral rat	7070 mg/kg (Rat)
ATE CLP (oral)	7070.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
3-Nitroaniline (99-09-2)	
LD50 oral rat	535 mg/kg (Rat)
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
ATE CLP (gases)	700.000 ppmV/4h
ATE CLP (vapors)	3.000 mg/l/4h
ATE CLP (dust, mist)	0.500 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)	7.000 mg/kg body weight
ATE CLP (dermal)	5.000 mg/kg body weight
ATE CLP (gases)	100.000 ppmV/4h
ATE CLP (vapors)	0.500 mg/l/4h
ATE CLP (dust, mist)	0.050 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)	1194.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
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)	100.000 mg/kg body weight
ATE CLP (dermal)	360.000 mg/kg body weight
ATE CLP (gases)	700.000 ppmV/4h
ATE CLP (vapors)	2.340 mg/l/4h
ATE CLP (dust, mist)	2.340 mg/l/4h
4-Methylphenol (106-44-5)	
LD50 oral rat	207 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	301 mg/kg (Rabbit)
ATE CLP (oral)	207.000 mg/kg body weight
ATE CLP (dermal)	301.000 mg/kg body weight

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

acenaphthene (83-32-9)	
LD50 oral rat	> 5000 mg/kg (Rat)

acenaphthylene (208-96-8)	
ATE CLP (dermal)	5.000 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)	250.000 mg/kg body weight
ATE CLP (dermal)	840.000 mg/kg body weight
ATE CLP (gases)	700.000 ppmV/4h
ATE CLP (vapors)	3.270 mg/l/4h
ATE CLP (dust, mist)	3.270 mg/l/4h

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

azobenzene (103-33-3)	
LD50 oral rat	1000 mg/kg (Rat; Literature study)
ATE CLP (oral)	1000.000 mg/kg body weight
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h

benzidine (92-87-5)	
LD50 oral rat	309 mg/kg (Rat; Literature study)
ATE CLP (oral)	309.000 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)	2330.000 mg/kg body weight
ATE CLP (dermal)	6700.000 mg/kg body weight

bis(2-chloroethoxy) methane (111-91-1)	
LD50 oral rat	65 mg/kg (Rat)
LD50 dermal rat	1071 mg/kg (Rat)
ATE CLP (oral)	65.000 mg/kg body weight
ATE CLP (dermal)	1071.000 mg/kg body weight

bis(2-chloroethyl) ether (111-44-4)	
LC50 inhalation rat (mg/l)	0.33 mg/l/4h (Rat)
ATE CLP (oral)	5.000 mg/kg body weight
ATE CLP (dermal)	5.000 mg/kg body weight
ATE CLP (gases)	100.000 ppmV/4h
ATE CLP (vapors)	0.330 mg/l/4h
ATE CLP (dust, mist)	0.330 mg/l/4h

Bis(2-chloroisopropyl) ether (108-60-1)	
LD50 oral rat	240 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	3300 mg/kg (Rabbit)
ATE CLP (oral)	240.000 mg/kg body weight
ATE CLP (dermal)	3300.000 mg/kg body weight

Bis(2-ethylhexyl) phthalate (117-81-7)	
LD50 oral rat	30000 mg/kg (Rat)
LD50 dermal rabbit	25000 mg/kg (Rabbit; Experimental value; 19800 mg/kg bodyweight; Rabbit)

Bis(2-ethylhexyl) phthalate (117-81-7)	
LC50 inhalation rat (mg/l)	> 10.6 mg/l/4h (Rat)
ATE CLP (oral)	30000.000 mg/kg body weight
ATE CLP (dermal)	25000.000 mg/kg body weight

carbazole (86-74-8)	
LD50 oral rat	>= 5000 mg/kg (Rat)

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)	47000.000 mg/kg body weight

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

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

hexachlorobuta-1,3-diene (87-68-3)	
LD50 oral rat	90 mg/kg (Rat)
LD50 dermal rabbit	1211 mg/kg (Rabbit)
ATE CLP (oral)	90.000 mg/kg body weight
ATE CLP (dermal)	1211.000 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)	315.000 mg/kg body weight
ATE CLP (dermal)	200.000 mg/kg body weight
ATE CLP (gases)	100.000 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)	4460.000 mg/kg body weight
ATE CLP (dermal)	32000.000 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)	1870.000 mg/kg body weight
ATE CLP (dermal)	1350.000 mg/kg body weight
ATE CLP (gases)	1281.000 ppmV/4h
ATE CLP (vapors)	7.200 mg/l/4h
ATE CLP (dust, mist)	7.200 mg/l/4h

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)	500.000 mg/kg body weight

nitrobenzene (98-95-3)	
LD50 oral rat	640 mg/kg (Rat; Experimental value; 588 mg/kg bodyweight; Rat)
LD50 dermal rabbit	760 mg/kg body weight (Rabbit; Experimental value)
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	760.000 mg/kg body weight
ATE CLP (gases)	700.000 ppmV/4h
ATE CLP (vapors)	3.000 mg/l/4h
ATE CLP (dust, mist)	0.500 mg/l/4h

nitrobenzene-D5 (4165-60-0)	
LD50 oral rat	855 mg/kg body weight (Rat; Experimental value)
LD50 dermal rabbit	760 mg/kg body weight (Rabbit; Experimental value)
ATE CLP (oral)	855.000 mg/kg body weight
ATE CLP (dermal)	760.000 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)	37.000 mg/kg body weight
ATE CLP (gases)	78.000 ppmV/4h
ATE CLP (vapors)	0.240 mg/l/4h
ATE CLP (dust, mist)	0.240 mg/l/4h

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

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

2,3,4,5,6-pentachlorophenol (87-86-5)	
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
ATE CLP (gases)	100.000 ppmV/4h
ATE CLP (vapors)	0.500 mg/l/4h
ATE CLP (dust, mist)	0.050 mg/l/4h

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

phenol (108-95-2)	
LD50 oral rat	650 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rat	660 mg/kg (Rat; Experimental value; Equivalent or similar to OECD 402)
LD50 dermal rabbit	850 - 1400 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	0.32 mg/l/4h (Rat; Literature study)
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	660.000 mg/kg body weight
ATE CLP (gases)	700.000 ppmV/4h
ATE CLP (vapors)	0.320 mg/l/4h
ATE CLP (dust, mist)	0.320 mg/l/4h

Phenol (13127-88-3)	
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight

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

pyridine (110-86-1)	
LD50 oral rat	> 891 mg/kg (Rat)
LD50 dermal rabbit	1120 mg/kg (Rabbit)
ATE CLP (oral)	500.000 mg/kg body weight
ATE CLP (dermal)	1120.000 mg/kg body weight
ATE CLP (gases)	4500.000 ppmV/4h

pyridine (110-86-1)	
ATE CLP (vapors)	11.000 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h

methanol (67-56-1)	
LD50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of evidence)
LD50 dermal rabbit	15800 mg/kg (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	64000 ppm/4h (Rat; Literature study)
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
ATE CLP (gases)	700.000 ppmV/4h
ATE CLP (vapors)	3.000 mg/l/4h
ATE CLP (dust, mist)	0.500 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 : May cause genetic defects.

Carcinogenicity : May cause cancer.
May cause cancer

Reproductive toxicity : Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : May cause damage to organs.

Specific target organ toxicity (repeated exposure) : Not classified
Based on available data, the classification criteria are not met

Aspiration hazard : Not classified
Based on available data, the classification criteria are not met

Potential Adverse human health effects and symptoms : Harmful if swallowed. Harmful in contact with skin.

SECTION 12: Ecological information

12.1. Toxicity

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

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)

1,2-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-dichlorbenzene (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)

1,2-dichlorobenzene-d4 (2199-69-1)	
LC50 fish 1	1.58 mg/l (LC50; 96 h)
EC50 other aquatic organisms 1	13.5 mg/l (48 h; Scenedesmus subspicatus; Non deuterium form)
EC50 Daphnia 2	0.74 mg/l (EC50; 48 h)

1-methylnaphthalene (90-12-0)	
LC50 fish 1	8.4 mg/l (LC50; 48 h; Salmo fario)

1-methylnaphthalene (90-12-0)	
EC50 Daphnia 1	1.848 mg/l (LC50; 48 h)
LC50 fish 2	9 mg/l (LC50; 96 h; Pimephales promelas)
EC50 Daphnia 2	1.2 mg/l (EC50; 48 h)
Threshold limit algae 1	1.71 - 5.12,EC50; 3 h
Threshold limit algae 2	1200 µg/l (EC50; 14 days)

2,4,5-trichlorophenol (95-95-4)	
LC50 fish 1	0.45 mg/l (LC50; 96 h; Lepomis macrochirus)
EC50 Daphnia 1	0.9 - 2.7 mg/l (EC50; 48 h)

2,4,6-trichlorophenol (88-06-2)	
LC50 fish 1	0.73 mg/l (LC50; 96 h; Salmo gairdneri)
EC50 Daphnia 2	0.69 mg/l (EC50; 48 h; Daphnia magna)
Threshold limit algae 2	3.5 mg/l (EC50; 96 h; Selenastrum capricornutum)

2,4-dichlorophenol (120-83-2)	
EC50 Daphnia 2	1.3 - 5.1 mg/l (EC50; 48 h; Daphnia magna)

2,4-Dimethylphenol (105-67-9)	
LC50 fish 1	7.8 mg/l (LC50; 96 h)
EC50 Daphnia 1	2.1 mg/l (EC50; 48 h)
Threshold limit algae 2	32 mg/l (EC50; 72 h)

2,4-dinitrophenol (51-28-5)	
LC50 fish 1	0.62 mg/l (LC50; 96 h; Lepomis macrochirus)
EC50 Daphnia 1	4.39 mg/l (EC50; 48 h)

2,6-dinitrotoluene (606-20-2)	
LC50 fish 1	18.5 - 50 mg/l (LC50; 96 h)
EC50 Daphnia 2	21.7 mg/l (EC50; 48 h)

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)

2-methylnaphthalene (91-57-6)	
LC50 fish 1	8 mg/l (LC50; 96 h)

2-Methylphenol (95-48-7)	
EC50 other aquatic organisms 1	65 mg/l (96 h; Selenastrum capricornutum)
LC50 fish 2	7.9 - 8.4 mg/l (LC50; 96 h)
EC50 Daphnia 2	5 - 9.5 mg/l (EC50; 48 h)

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)

3,3'-dichlorobenzidine (91-94-1)	
EC50 other aquatic organisms 1	4.3 mg/l (72 h; Scenedesmus subspicatus; Growth rate)
LC50 fish 2	0.5 mg/l (LC50; 96 h)

3-Nitroaniline (99-09-2)	
LC50 fish 2	134.31 mg/l (LC50; 96 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)

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)

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)

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-Chlorodiphenyl ether (7005-72-3)	
LC50 fish 1	0.73 mg/l 96 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)
4-Nitroaniline (100-01-6)	
EC50 Daphnia 1	24 mg/l (EC50; 48 h)
LC50 fish 2	87.6 mg/l (LC50; 96 h; Brachydanio rerio)
Threshold limit algae 1	11 mg/l (EC0; 192 h)
acenaphthene (83-32-9)	
EC50 Daphnia 1	3.45 mg/l (EC50; 48 h)
anthracene (120-12-7)	
LC50 fish 2	0.00127 mg/l (LC50; 96 h)
EC50 Daphnia 2	0.0012 mg/l (EC50; 24 h)
azobenzene (103-33-3)	
LC50 fish 1	< 1 mg/l (LC50)
Threshold limit algae 1	2.5 mg/l (EC50; 48 h)
benzidine (92-87-5)	
EC50 Daphnia 1	0.6 mg/l (EC50; 48 h)
LC50 fish 2	7.4 mg/l (LC50; 96 h; Salmo gairdneri)
Threshold limit algae 1	20 mg/l (LC50)
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)
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)
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-chloroethyl) ether (111-44-4)	
EC50 Daphnia 1	238 mg/l (EC50; 48 h)
LC50 fish 2	600 mg/l (LC50; 96 h; Lepomis macrochirus)
Bis(2-chloroisopropyl) ether (108-60-1)	
LC50 fish 1	71.2 mg/l (LC50; 48 h)
Bis(2-ethylhexyl) phthalate (117-81-7)	
Threshold limit algae 1	> 130 mg/l (EC50; 72 h; Algae)
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)
chrysene (218-01-9)	
EC50 Daphnia 1	0.0007 mg/l (LC50; 24 h)
Threshold limit algae 1	0.001 mg/l (EC0)
dibenz(a,h)anthracene (53-70-3)	
EC50 Daphnia 1	0.0004 mg/l (LC50; 3 h)
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)

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)
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)
fluorene (86-73-7)	
EC50 Daphnia 1	0.212 mg/l (EC50; 48 h)
LC50 fish 2	5.15 mg/l (LC50; 48 h)
hexachlorobenzene (118-74-1)	
LC50 fish 2	2.30 mg/l (LC50; 96 h)
EC50 Daphnia 2	> 0.03 mg/l (EC50; 24 h)
hexachlorobuta-1,3-diene (87-68-3)	
LC50 fish 2	0.250 mg/l (LC50; 96 h)
EC50 other aquatic organisms 2	0.21 mg/l (96 h; Lymnaea sp.)
Threshold limit algae 2	> 25 mg/l (EC0)
Hexachlorocyclopentadiene (77-47-4)	
LC50 fish 1	0.007 mg/l (LC50; 96 h; Pimephales promelas; Flow-through system; Fresh water)
EC50 other aquatic organisms 1	0.19 mg/l (96 h; Selenastrum capricornutum; Growth rate)
hexachloroethane (67-72-1)	
EC50 Daphnia 1	1.4 mg/l (EC50)
LC50 fish 2	0.84 mg/l (LC50; 96 h)
Threshold limit algae 1	7.75 mg/l (EC50; 96 h)
isophorone (78-59-1)	
LC50 fish 1	145 - 255 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	117 mg/l (48 h; Daphnia magna)
EC50 other aquatic organisms 1	126 mg/l (96 h; Selenastrum capricornutum; Growth rate)
LC50 fish 2	220 mg/l (96 h; Lepomis macrochirus)
TLM fish 1	1 - 100,Pisces; Nocivity test
Threshold limit algae 1	475.4 mg/l (72 h; Scenedesmus subspicatus; Growth rate)
naphthalene (91-20-3)	
EC50 Daphnia 1	2.16 mg/l (EC50; 48 h; Daphnia magna)
LC50 fish 2	0.11 mg/l (LC50; 96 h; Oncorhynchus mykiss)
Threshold limit algae 1	0.4 mg/l (EC50; 72 h; Skeletonema costatum)
nitrobenzene (98-95-3)	
LC50 fish 1	4.3 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 48 h; Oryzias latipes)
nitrobenzene-D5 (4165-60-0)	
LC50 fish 2	92 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio; Flow-through system; Fresh water; Experimental value)
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)
phenanthrene (85-01-8)	
EC50 Daphnia 2	0.35 mg/l (EC50; 48 h)
Threshold limit algae 1	0.9 mg/l (EC50; 4 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)

pyrene (129-00-0)	
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)

methanol (67-56-1)	
LC50 fish 1	15400 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)
EC50 Daphnia 1	> 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
LC50 fish 2	10800 mg/l (LC50; 96 h; Salmo gairdneri)

Methylene Chloride (75-09-2)	
LC50 fish 1	193 mg/l (LC50; 96 h; Pimephales promelas)
EC50 Daphnia 1	168.2 mg/l (EC50; 48 h)

12.2. Persistence and degradability

Custom 8270 Mix with Surrogates	
Persistence and degradability	May cause long-term adverse effects in the environment.

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□ /g substance
BOD (% of ThOD)	0

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-dichlorbenzene (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□ /g substance
BOD (% of ThOD)	0.65 (Calculated value)

1,2-dichlorobenzene-d4 (2199-69-1)	
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-methylnaphthalene (90-12-0)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water.

2,4,5-trichlorophenol (95-95-4)	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.

2,4,6-tribromophenol (118-79-6)	
Persistence and degradability	Not readily biodegradable in water. Biodegradability in soil: no data available.

2,4,6-trichlorophenol (88-06-2)	
Persistence and degradability	Readily biodegradable in water. Readily biodegradable in the soil. No (test)data on mobility of the substance available.

2,4-dichlorophenol (120-83-2)	
Persistence and degradability	Not readily biodegradable in water. Inherently biodegradable. Biodegradable in the soil. No (test)data on mobility of the substance available.

2,4-dinitrophenol (51-28-5)	
Persistence and degradability	Readily biodegradable in water. Biodegradability in soil: no data available.

2,4-dinitrotoluene (121-14-2)	
Persistence and degradability	Not readily biodegradable in water.
Chemical oxygen demand (COD)	1.6 g O□ /g substance

2,6-dinitrotoluene (606-20-2)	
Persistence and degradability	Not readily biodegradable in water.

2-chlorophenol (95-57-8)	
Persistence and degradability	Not readily biodegradable in water. Inherently biodegradable. Biodegradable in the soil.
2-methylnaphthalene (91-57-6)	
Persistence and degradability	Inherently biodegradable. Not readily biodegradable in water.
2-Methylphenol (95-48-7)	
Persistence and degradability	Readily biodegradable in water. Photodegradation in the air.
Biochemical oxygen demand (BOD)	1.69 - 1.74 g O□ /g substance
Chemical oxygen demand (COD)	2.38 g O□ /g substance
ThOD	2.52 g O□ /g substance
BOD (% of ThOD)	0.65
2-Nitroaniline (88-74-4)	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil. Photolysis in the air.
3,3'-dichlorobenzidine (91-94-1)	
Persistence and degradability	Inherently biodegradable. Not readily biodegradable in water. Photolysis in the air.
3-Nitroaniline (99-09-2)	
Persistence and degradability	Not readily biodegradable in water.
4,6-Dinitro-2-methylphenol (534-52-1)	
Persistence and degradability	Not readily biodegradable in water.
4-bromodiphenyl ether (101-55-3)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water.
4-chloro-3-methylphenol (59-50-7)	
Persistence and degradability	Biodegradable in water.
Chemical oxygen demand (COD)	1.5 - 1.8 g O□ /g substance
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-Methylphenol (106-44-5)	
Persistence and degradability	Readily biodegradable in water. Photolysis in the air.
Biochemical oxygen demand (BOD)	1.45 g O□ /g substance
Chemical oxygen demand (COD)	2.4 g O□ /g substance
ThOD	2.52 g O□ /g substance
BOD (% of ThOD)	0.57
4-Nitroaniline (100-01-6)	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil. Photodegradation in the air.
acenaphthene (83-32-9)	
Persistence and degradability	Not readily biodegradable in water. Adsorbs into the soil.
acenaphthylene (208-96-8)	
Persistence and degradability	Biodegradability in soil: no data available.
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□ /g substance
BOD (% of ThOD)	0.02
azobenzene (103-33-3)	
Persistence and degradability	Not readily biodegradable in water. No (test)data on mobility of the substance available.
benzidine (92-87-5)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
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□ /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□ /g substance
ThOD	2.92 g O□ /g substance
Benzo(b)fluoranthene (205-99-2)	
Persistence and degradability	Not readily biodegradable in water. Photolysis in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
ThOD	2.92 g O□ /g substance
benzo(ghi)perylene (191-24-2)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
ThOD	2.90 g O□ /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□ /g substance
benzyl butyl phthalate (85-68-7)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Biodegradability in soil: no data available. Adsorbs into the soil.
bis(2-chloroethoxy) methane (111-91-1)	
Persistence and degradability	Not readily biodegradable in water.
ThOD	1.2 g O□ /g substance
bis(2-chloroethyl) ether (111-44-4)	
Persistence and degradability	Not readily biodegradable in water.
Bis(2-chloroisopropyl) ether (108-60-1)	
Persistence and degradability	Not readily biodegradable in water.
Bis(2-ethylhexyl) 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.
carbazole (86-74-8)	
Persistence and degradability	Not readily biodegradable in water.
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.
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□ /g substance
ThOD	2.24 g O□ /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.
fluoranthene (206-44-0)	
Persistence and degradability	Forming sediments in water.
fluorene (86-73-7)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.
ThOD	2.02 g O□ /g substance
hexachlorobenzene (118-74-1)	
Persistence and degradability	Not readily biodegradable in water. Not easily biodegradable in water in anaerobic conditions. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
hexachlorobuta-1,3-diene (87-68-3)	
Persistence and degradability	Readily biodegradable in water. Biodegradability in soil: no data available.

Hexachlorocyclopentadiene (77-47-4)	
Persistence and degradability	Not readily biodegradable in water. Photolysis in water. Biodegradable in the soil. Adsorbs into the soil. Photolysis in the air.

hexachloroethane (67-72-1)	
Persistence and degradability	Not readily biodegradable in water.

indeno(1,2,3-cd)pyrene (193-39-5)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
ThOD	2.90 g O□ /g substance

isophorone (78-59-1)	
Persistence and degradability	Readily biodegradable in water. Ozonation in the air. Photolysis in the air.
ThOD	2.78 g O□ /g substance

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□ /g substance
Chemical oxygen demand (COD)	0.22 g O□ /g substance
ThOD	2.99 g O□ /g substance

nitrobenzene (98-95-3)	
Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	0 g O□ /g substance
ThOD	1.95 g O□ /g substance
BOD (% of ThOD)	0

nitrobenzene-D5 (4165-60-0)	
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□ /g substance
ThOD	1.95 g O□ /g substance
BOD (% of ThOD)	0

N-Nitrosodimethylamine (62-75-9)	
Persistence and degradability	Not readily biodegradable in water. Photolysis in water. Photolysis in the air.

N-nitrosodiphenylamine (86-30-6)	
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.

phenanthrene (85-01-8)	
Persistence and degradability	Biodegradable in water. Forming sediments in water. Adsorbs into the soil.

phenol (108-95-2)	
Persistence and degradability	Readily biodegradable in water. Photolysis in water. Readily biodegradable in the soil. Inhibits biodegradation processes in the soil. Low potential for adsorption in soil. Photooxidation in the air.
Biochemical oxygen demand (BOD)	1.68 g O□ /g substance
Chemical oxygen demand (COD)	2.28 g O□ /g substance
ThOD	2.38 g O□ /g substance
BOD (% of ThOD)	0.71

Phenol (13127-88-3)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Inhibits biodegradation processes in the soil.
Biochemical oxygen demand (BOD)	1.68 g O□ /g substance
Chemical oxygen demand (COD)	2.28 g O□ /g substance
ThOD	2.38 g O□ /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.

pyridine (110-86-1)	
Biochemical oxygen demand (BOD)	1.15 g O□ /g substance
Chemical oxygen demand (COD)	0.05 g O□ /g substance
ThOD	2.23 g O□ /g substance
BOD (% of ThOD)	0.52

methanol (67-56-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O□ /g substance
Chemical oxygen demand (COD)	1.42 g O□ /g substance
ThOD	1.5 g O□ /g substance
BOD (% of ThOD)	0.8 (Literature study)

Methylene Chloride (75-09-2)	
Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil.

12.3. Bioaccumulative potential

Custom 8270 Mix with Surrogates	
Bioaccumulative potential	Not established.

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 ≤ BCF ≤ 5000).

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-dichlorbenzene (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).

1,2-dichlorobenzene-d4 (2199-69-1)	
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	3.38
Bioaccumulative potential	Muta. Cat. 1; R46.

1-methylnaphthalene (90-12-0)	
BCF fish 1	20 (BCF; 5 weeks)
BCF fish 2	113-2000,BCF; 1 - 2 weeks
Log Pow	3.87 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

2,4,5-trichlorophenol (95-95-4)	
BCF fish 1	62 (BCF)
BCF fish 2	121 - 825 (BCF)
Log Pow	3.06 - 4.19
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

2,4,6-tribromophenol (118-79-6)	
Log Pow	4.02 (QSAR)
Bioaccumulative potential	No bioaccumulation data available.
2,4,6-trichlorophenol (88-06-2)	
BCF fish 2	12130 (BCF; 36 days; Poecilia reticulata)
Log Pow	3.4 - 4.05 (Literature)
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
2,4-dichlorophenol (120-83-2)	
BCF fish 1	7.1 - 69 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 8 weeks; Cyprinus carpio; Fresh water)
Log Pow	3 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2,4-Dimethylphenol (105-67-9)	
BCF fish 1	150 (BCF; 672 h; Lepomis macrochirus)
Log Pow	2.2 - 2.5
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2,4-dinitrophenol (51-28-5)	
BCF fish 1	< 3.7 (BCF)
Log Pow	1.05 - 1.59
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2,4-dinitrotoluene (121-14-2)	
BCF fish 1	102.8 (BCF; 336 h)
BCF fish 2	16 - 204 (BCF)
BCF other aquatic organisms 1	13 (BCF; 96 h)
BCF other aquatic organisms 2	58 (BCF; 96 h)
Log Pow	1.98 - 2.8
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2,6-dinitrotoluene (606-20-2)	
BCF fish 1	22 (BCF)
BCF other aquatic organisms 1	5225 (BCF)
Log Pow	1.72 - 2.05
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
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).
2-methylnaphthalene (91-57-6)	
BCF fish 1	407 (BCF; 624 h; Lepomis macrochirus)
BCF fish 2	190 (BCF; 840 h; Oncorhynchus kisutch)
Log Pow	3.86 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2-Methylphenol (95-48-7)	
Log Pow	1.5 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
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).
3,3'-dichlorobenzidine (91-94-1)	
BCF fish 1	507 (BCF; 168 h)
BCF fish 2	43 - 213 (BCF)
BCF other aquatic organisms 1	940 (BCF)
Log Pow	3.02 - 3.78
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
3-Nitroaniline (99-09-2)	
BCF fish 1	< 1.1/<10,BCF
Log Pow	1.37

3-Nitroaniline (99-09-2)	
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).
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.
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).
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-Chlorodiphenyl ether (7005-72-3)	
Log Pow	4.2
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).
4-Nitroaniline (100-01-6)	
BCF fish 1	< 2.9/<10,BCF
Log Pow	1.4
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
acenaphthene (83-32-9)	
BCF fish 1	257 - 1270 (BCF)
BCF fish 2	387 (BCF; 28 days)
Log Pow	3.92 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
acenaphthylene (208-96-8)	
Bioaccumulative potential	No bioaccumulation data available.
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).
azobenzene (103-33-3)	
Log Pow	3.82
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
benzidine (92-87-5)	
BCF fish 1	55 (BCF)
BCF fish 2	38 - 42 (BCF; 908 h; Lepomis macrochirus)
BCF other aquatic organisms 1	2512 (BCF)
BCF other aquatic organisms 2	293 (BCF)
Log Pow	1.34 - 1.81

benzidine (92-87-5)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

benzo[a]anthracene (56-55-3)	
BCF fish 1	350 (BCF; 72 h)
BCF other aquatic organisms 1	1106 (BCF; 24 h)
BCF other aquatic organisms 2	18000 (BCF; 192 h)
Log Pow	5.61 - 5.79
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).

benzo[a]pyrene (50-32-8)	
BCF fish 1	480 (BCF; 72 h)
BCF fish 2	70.7 (BCF; 168 h; Salmo salar)
BCF other aquatic organisms 1	3000 (BCF; 192 h)
BCF other aquatic organisms 2	1.5 (BCF; 24 h)
Log Pow	5.97 - 6.06
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).

Benzo(b)fluoranthene (205-99-2)	
BCF other aquatic organisms 1	2800 (BCF; 168 h)
Log Pow	6.57
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).

benzo(ghi)perylene (191-24-2)	
Log Pow	6.51 - 7.23 (Calculated)
Bioaccumulative potential	Bioaccumable.

benzo[k]fluoranthene (207-08-9)	
BCF fish 1	8750 (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).

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).

bis(2-chloroethoxy) methane (111-91-1)	
Log Pow	1.3 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

bis(2-chloroethyl) ether (111-44-4)	
BCF fish 1	< 10 (BCF)
BCF fish 2	10.96 (BCF; 336 h)
Log Pow	1.12 - 1.58
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

Bis(2-chloroisopropyl) ether (108-60-1)	
BCF fish 1	< <5.2/12,BCF
Log Pow	2.48
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

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).

carbazole (86-74-8)	
BCF fish 1	34 - 241 (BCF)
BCF fish 2	500 (BCF)
BCF other aquatic organisms 1	115 (BCF)
BCF other aquatic organisms 2	108 (BCF; 24 h)
Log Pow	3.84 (OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

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).
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)
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).
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).
fluorene (86-73-7)	
BCF fish 1	2230 (BCF)
BCF fish 2	219 - 830 (BCF)
Log Pow	4.12 - 4.67
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
hexachlorobenzene (118-74-1)	
BCF fish 1	20000 (BCF)
BCF fish 2	30000 (BCF)
BCF other aquatic organisms 1	25000 (BCF)
BCF other aquatic organisms 2	1130 (BCF; 720 h)
Log Pow	5.73 - 6.39 (Experimental value)
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
hexachlorobuta-1,3-diene (87-68-3)	
BCF fish 1	17000 (BCF)
BCF fish 2	7000 (BCF)
BCF other aquatic organisms 1	45.36 (BCF)
BCF other aquatic organisms 2	3000 (BCF)
Log Pow	3.74 - 4.90
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
Hexachlorocyclopentadiene (77-47-4)	
BCF fish 1	1230 (BCF; 72 h; Leuciscus idus)
BCF other aquatic organisms 1	1090 (BCF; 24 h; Chlorella sp.)
Log Pow	3.99-5.51
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
hexachloroethane (67-72-1)	
BCF fish 1	1200 (BCF)
BCF fish 2	756 mg/l (BCF; 768 h)

hexachloroethane (67-72-1)	
Log Pow	3.34 - 4.62
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
indeno(1,2,3-cd)pyrene (193-39-5)	
BCF other aquatic organisms 1	10000 (BCF; 240 h)
Log Pow	6.6 - 7.7
Bioaccumulative potential	High potential for bioaccumulation (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	1.70 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
naphthalene (91-20-3)	
BCF fish 1	23 - 168 (BCF; 8 weeks; Cyprinus carpio)
Log Pow	3.30 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
nitrobenzene (98-95-3)	
BCF fish 1	15 (BCF; 672 h)
BCF fish 2	1.6 - 7.7 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 42 days; Cyprinus carpio; Flow-through system; Fresh water; Experimental value)
BCF other aquatic organisms 1	24 (BCF)
Log Pow	1.85 (Calculated; 1.86; Experimental value; EU Method A.8: Partition Coefficient)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
nitrobenzene-D5 (4165-60-0)	
BCF fish 1	15 (BCF; 672 h; Pimephales promelas)
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; Non deuterium form)
BCF other aquatic organisms 1	24 (BCF)
Log Pow	1.85 (Calculated; 1.86; Experimental value; EU Method A.8: Partition Coefficient)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
N-Nitrosodimethylamine (62-75-9)	
Log Pow	-0.77 - -0.57
Bioaccumulative potential	Bioaccumulation: not applicable.
N-Nirosodi-n-propylamine (621-64-7)	
Log Pow	1.31 - 1.36
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
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).
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).
phenanthrene (85-01-8)	
BCF fish 1	5100 (BCF; 672 h; Pimephales promelas)
BCF fish 2	2630 (BCF)
BCF other aquatic organisms 1	1760 (BCF)
BCF other aquatic organisms 2	325 (BCF; 24 h)
Log Pow	4.46
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
phenol (108-95-2)	
Log Pow	1.47 (Experimental value; Equivalent or similar to OECD 117; 30 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Phenol (13127-88-3)	
BCF fish 1	20 (BCF)

Phenol (13127-88-3)	
BCF fish 2	1276 - 1496 (BCF)
BCF other aquatic organisms 1	277 (BCF)
BCF other aquatic organisms 2	3.5 - 16 (BCF)
Log Pow	1.46 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

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).

methanol (67-56-1)	
BCF fish 1	< 10 (BCF; 72 h; Leuciscus idus)
Log Pow	-0.77 (Experimental value; Other)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

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

1,2,4-trichlorobenzene (120-82-1)	
Surface tension	0.039 N/m (20 °C)

1,2-dichlorobenzene (95-50-1)	
Surface tension	0.037 N/m (20 °C)

1,3-dichlorbenzene (541-73-1)	
Surface tension	0.036 N/m (20 °C)
Log Koc	log Koc,Other; 2.56; Experimental value

1,4-dichlorobenzene (106-46-7)	
Surface tension	0.030 N/m (55 °C)

1-methylnaphthalene (90-12-0)	
Log Koc	Koc,2300

2,4-dinitrophenol (51-28-5)	
Ecology - soil	Toxic to flora.

2,4-dinitrotoluene (121-14-2)	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.

2-chlorophenol (95-57-8)	
Surface tension	0.042 N/m (13 °C)

2-Methylphenol (95-48-7)	
Surface tension	0.04 N/m (20 °C)

4-chloroaniline (106-47-8)	
Ecology - soil	Soil contaminant.

4-Methylphenol (106-44-5)	
Surface tension	0.041 N/m (40 °C)

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

azobenzene (103-33-3)	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.

bis(2-chloroethyl) ether (111-44-4)	
Surface tension	0.038 N/m (19 °C)

Bis(2-chloroisopropyl) ether (108-60-1)	
Ecology - soil	Not toxic to plants.

Bis(2-ethylhexyl) phthalate (117-81-7)	
Surface tension	0.032 N/m (20 °C)
dibutyl phthalate (84-74-2)	
Surface tension	0.034 N/m (20 °C)
hexachlorobenzene (118-74-1)	
Ecology - soil	Not toxic to bees.
hexachlorobuta-1,3-diene (87-68-3)	
Ecology - soil	Soil contaminant.
Hexachlorocyclopentadiene (77-47-4)	
Surface tension	0.0375 N/m (20 °C)
Log Koc	Koc,4265; Experimental value
isophorone (78-59-1)	
Surface tension	0.032 N/m
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
nitrobenzene-D5 (4165-60-0)	
Log Koc	Koc,Other; 118; Calculated value; log Koc; Other; 2.07; Calculated value
phenanthrene (85-01-8)	
Ecology - soil	Soil contaminant.
phenol (108-95-2)	
Surface tension	0.0713 N/m (20 °C)
pyridine (110-86-1)	
Surface tension	0.038 N/m (20 °C)
methanol (67-56-1)	
Surface tension	0.023 N/m (20 °C)
Log Koc	Koc,PCKOCWIN v1.66; 1; Calculated value
Methylene Chloride (75-09-2)	
Surface tension	0.028 N/m (20 °C)
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.

12.5. Results of PBT and vPvB assessment

Component	
2,4-dinitrotoluene (121-14-2)	This substance/mixture does not meet the PBT criteria of REACH, annex XIII This substance/mixture does not meet the vPvB criteria of REACH, annex XIII
(117-81-7)	This substance/mixture does not meet the PBT criteria of REACH, annex XIII This substance/mixture does not meet the vPvB criteria of REACH, annex XIII
anthracene (120-12-7)	This substance/mixture meets the PBT criteria of REACH, annex XIII This substance/mixture does not meet the vPvB criteria of REACH, annex XIII
benzo[a]pyrene (50-32-8)	This substance/mixture meets the PBT criteria of REACH, annex XIII This substance/mixture meets 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
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
nitrobenzene (98-95-3)	This substance/mixture meets the PBT criteria of REACH, annex XIII This substance/mixture does not meet the vPvB criteria of REACH, annex XIII
nitrobenzene-D5 (4165-60-0)	This substance/mixture meets 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

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

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

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

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

14.1. UN number

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

14.2. UN proper shipping name

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

14.3. Packing group

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

Hazard labels (IATA) : 9

Hazard labels (IMDG) : 9

Hazard labels (ADN) : 9

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 :

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.)	:	90
Classification code (ADR)	:	M6

Orange plates : 

Special provision (ADR) : 274, 335, 601, 375
Transport category (ADR) : 3
Tunnel restriction code (ADR) : E
Limited quantities (ADR) : 5l
Excepted quantities (ADR) : E1

14.6.2. Transport by sea

Special provision (IMDG) : 274, 335, 969
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
Packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP2, TP29
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A

14.6.3. Air transport

CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L
PCA packing instructions (IATA) : 964
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA max net quantity (IATA) : 450L
PCA Excepted quantities (IATA) : E1
Special provision (IATA) : A97, A158, A197
ERG code (IATA) : 9L

14.6.4. Inland waterway transport

Special provision (ADN) : 274, 335, 375, 601
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP
Number of blue cones/lights (ADN) : 0
Carriage prohibited (ADN) : No

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions

Contains substance on the candidate list in concentration ≥ 0.1% or with a lower specific limit: 2,4-Dinitrotoluene (EC 204-450-0, CAS 121-14-2), Bis (2-ethyl(hexyl)phthalate) (DEHP) (EC 204-211-0, CAS 117-81-7), Anthracene (EC 204-371-1, CAS 120-12-7), Benzo[def]chrysene (EC 200-028-5, CAS 50-32-8), Dibutyl phthalate (DBP) (EC 201-557-4, CAS 84-74-2), Benzyl butyl phthalate (BBP) (EC 201-622-7, CAS 85-68-7), Nitrobenzene (EC 202-716-0, CAS 98-95-3), Nitrobenzene (EC 224-014-3, CAS 4165-60-0)

Contains REACH Annex XIV substances:

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources	:	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	:	None.

PHV SDS EU