

Custom Low ICAL Mix

Safety Data Sheet

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

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

1.1. Product identifier

Product form : Mixture
Product name : Custom Low ICAL Mix
Product code : AL0-130182
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]

Acute Tox. 4 (Dermal)	H312
Acute Tox. 4 (Inhalation)	H332
Muta. 1B	H340
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
Muta.Cat.2; R46
Xn; R20/21
N; R50/53

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

GHS08

GHS09

Signal word (CLP) : Danger

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Hazard statements (CLP)	: H312+H332 - Harmful in contact with skin or if inhaled H340 - May cause genetic defects H350 - May cause cancer H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (CLP)	: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray P271 - Use only outdoors or in a well-ventilated area P273 - Avoid release to the environment P280 - Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P308+P313 - IF exposed or concerned: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P391 - Collect spillage P403+P233 - Store in a well-ventilated place. Keep container tightly closed P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation
EUH-statements	: EUH208 - Contains benzo[a]pyrene(50-32-8), phenanthrene(85-01-8). May produce an allergic reaction
No labelling 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. 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	97	Carc. 2, H351
acenaphthene (Component)	(CAS-No.) 83-32-9 (EC-No.) 201-469-6	0.1	Eye Irrit. 2, H319 Aquatic Chronic 2, H411
acenaphthylene (Component)	(CAS-No.) 208-96-8 (EC-No.) 205-917-1	0.1	Acute Tox. 1 (Dermal), H310
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
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)
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)
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)
4-bromodiphenyl ether (Component)	(CAS-No.) 101-55-3 (EC-No.) 202-952-4	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
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
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
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)
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

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
4-Chlorodiphenyl ether (Component)	(CAS-No.) 7005-72-3 (EC-No.) 230-281-7	0.1	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
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
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-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
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)
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)
indeno(1,2,3-cd)pyrene (Component)	(CAS-No.) 193-39-5 (EC-No.) 205-893-2	0.1	Carc. 1B, H350
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
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
fluorene (Component)	(CAS-No.) 86-73-7 (EC-No.) 201-695-5	0.1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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
1-methylnaphthalene (Component)	(CAS-No.) 90-12-0 (EC-No.) 201-966-8	0.1	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411
2-methylnaphthalene (Component)	(CAS-No.) 91-57-6 (EC-No.) 202-078-3	0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
Name	Product identifier	Specific concentration limits	
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	

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. 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.

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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. Harmful in contact with skin.

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

No additional information available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. 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.

Hygiene measures : Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.

Incompatible materials : Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

benzo[a]pyrene (50-32-8)		
Netherlands	Grenswaarde TGG 8H (mg/m ³)	550 (Benzo(a)pyrene; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
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)
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)

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dibutyl phthalate (84-74-2)		
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)
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)
1-methylnaphthalene (90-12-0)		
Belgium	Limit value (mg/m ³)	3 mg/m ³ (1-Méthylnaphtalène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	0.5 ppm (1-Méthylnaphtalène; Belgium; Time-weighted average exposure limit 8 h)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.5 ppm (1-methylnaphthalene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
2-methylnaphthalene (91-57-6)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.5 ppm (2-methylnaphthalene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted 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)
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)
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)
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.

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Respiratory protection : Wear appropriate mask.
Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Colourless.
Odour : characteristic.
pH : No data available
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) : Non flammable
Relative density : No data available
Solubility : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

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ATE CLP (dermal)	1100 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1.5 mg/l/4h
acenaphthene (83-32-9)	
LD50 oral rat	> 5000 mg/kg (Rat)
acenaphthylene (208-96-8)	
ATE CLP (dermal)	5 mg/kg bodyweight
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 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h

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azobenzene (103-33-3)	
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1.5 mg/l/4h
benzyl butyl phthalate (85-68-7)	
LD50 oral rat	2330 mg/kg (Rat)
LD50 dermal rat	6700 mg/kg (Rat)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 6.7 mg/l/4h (Rat)
ATE CLP (oral)	2330 mg/kg bodyweight
ATE CLP (dermal)	6700 mg/kg bodyweight
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 mg/kg bodyweight
ATE CLP (dermal)	1071 mg/kg bodyweight
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 bodyweight
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 bodyweight
ATE CLP (dermal)	25000 mg/kg bodyweight
fluoranthene (206-44-0)	
LD50 oral rat	2000 mg/kg (Rat)
LD50 dermal rabbit	3180 mg/kg (Rabbit)
ATE CLP (oral)	2000 mg/kg bodyweight
ATE CLP (dermal)	3180 mg/kg bodyweight
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 mg/kg bodyweight
2-methylnaphthalene (91-57-6)	
LD50 oral rat	1630 mg/kg (Rat)
ATE CLP (oral)	1630 mg/kg bodyweight
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 bodyweight
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 bodyweight
phenanthrene (85-01-8)	
LD50 oral rat	1800 mg/kg (Rat)
ATE CLP (oral)	1800 mg/kg bodyweight
pyrene (129-00-0)	
LD50 oral rat	2700 mg/kg (Rat)
ATE CLP (oral)	2700 mg/kg bodyweight
Methylene Chloride (75-09-2)	
LD50 oral rat	> 2000 mg/kg (Rat; Literature study)

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Methylene Chloride (75-09-2)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Literature study)
Skin corrosion/irritation	: Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: 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
STOT-single exposure	: Not classified Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Harmful in contact with skin.

SECTION 12: Ecological information

12.1. Toxicity

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

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)
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)
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)
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)
4-Chlorodiphenyl ether (7005-72-3)	
LC50 fish 1	0.73 mg/l 96 h

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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)
Bis(2-ethylhexyl) phthalate (117-81-7)	
Threshold limit algae 1	> 130 mg/l (EC50; 72 h; Algae)
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)
1-methylnaphthalene (90-12-0)	
LC50 fish 1	8.4 mg/l (LC50; 48 h; Salmo fario)
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-methylnaphthalene (91-57-6)	
LC50 fish 1	8 mg/l (LC50; 96 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)
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)
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)
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)
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 Low ICAL Mix	
Persistence and degradability	May cause long-term adverse effects in the environment.
acenaphthene (83-32-9)	
Persistence and degradability	Not readily biodegradable in water. Adsorbs into the soil.

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acenaphthylene (208-96-8)	
Persistence and degradability	Biodegradability in soil: no data available.
anthracene (120-12-7)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water.
ThOD	3.41 g O ₂ /g substance
BOD (% of ThOD)	0.02
azobenzene (103-33-3)	
Persistence and degradability	Not readily biodegradable in water. No (test)data on mobility of the substance available.
benzo[a]anthracene (56-55-3)	
Persistence and degradability	Not readily biodegradable in water. Photolysis in water. Ozonation in water. Forming sediments in water. Biodegradability in soil: no data available. Inhibits biodegradation processes in the soil. Adsorbs into the soil. Photodegradation in the air.
ThOD	2.95 g O ₂ /g substance
benzo[a]pyrene (50-32-8)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil.
Chemical oxygen demand (COD)	2.92 g O ₂ /g substance
ThOD	2.92 g O ₂ /g substance
Benzo(b)fluoranthene (205-99-2)	
Persistence and degradability	Not readily biodegradable in water. Photolysis in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
ThOD	2.92 g O ₂ /g substance
benzo(ghi)perylene (191-24-2)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
ThOD	2.9 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
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.
4-bromodiphenyl ether (101-55-3)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water.
bis(2-chloroethoxy) methane (111-91-1)	
Persistence and degradability	Not readily biodegradable in water.
ThOD	1.2 g O ₂ /g substance
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 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.
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.

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fluoranthene (206-44-0)	
Persistence and degradability	Forming sediments in water.
fluorene (86-73-7)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.
ThOD	2.02 g O ₂ /g substance
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	2.9 g O ₂ /g substance
1-methylnaphthalene (90-12-0)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water.
2-methylnaphthalene (91-57-6)	
Persistence and degradability	Inherently biodegradable. Not readily biodegradable in water.
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
N-nitrosodiphenylamine (86-30-6)	
Persistence and degradability	Not readily biodegradable in water. Biodegradability in soil: no data available.
phenanthrene (85-01-8)	
Persistence and degradability	Biodegradable in water. Forming sediments in water. Adsorbs into the soil.
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.
Methylene Chloride (75-09-2)	
Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil.
12.3. Bioaccumulative potential	
Custom Low ICAL Mix	
Bioaccumulative potential	Not established.
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.
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).
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)

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benzo[a]pyrene (50-32-8)	
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).
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.
bis(2-chloroethoxy) methane (111-91-1)	
Log Pow	1.3 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
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).
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)

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di-n-octyl phthalate (117-84-0)	
BCF other aquatic organisms 2	28500 (BCF; 792 h)
Log Pow	4.6 - 9.2
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
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).
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).
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).
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-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).
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).
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).
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).
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).
Methylene Chloride (75-09-2)	
BCF fish 1	2 - 40 (BCF)

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Methylene Chloride (75-09-2)	
Log Pow	1.25 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

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

dibutyl phthalate (84-74-2)	
Surface tension	0.034 N/m (20 °C)

Bis(2-ethylhexyl) phthalate (117-81-7)	
Surface tension	0.032 N/m (20 °C)

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

naphthalene (91-20-3)	
Surface tension	0.03 N/m (100 °C)

phenanthrene (85-01-8)	
Ecology - soil	Soil contaminant.

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	
anthracene (120-12-7)	This substance/mixture meets the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
benzo[a]pyrene (50-32-8)	This substance/mixture meets the PBT criteria of REACH regulation, annex XIII This substance/mixture meets the vPvB criteria of REACH regulation, annex XIII
benzyl butyl phthalate (85-68-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Bis(2-ethylhexyl) phthalate (117-81-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
dibutyl phthalate (84-74-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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

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

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



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



Danger labels (IMDG) : 6.1



Danger labels (ADN) : 6.1



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.) : 60
Classification code (ADR) : T1
Orange plates :



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

14.6.2. Transport by sea

Special provisions (IMDG) : 223, 274
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01

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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 provisions (IATA)	: A3, A4, A137
ERG code (IATA)	: 6L

14.6.4. Inland waterway transport

Special provisions (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 a substance on the REACH candidate list in concentration $\geq 0.1\%$ or with a lower specific limit: Anthracene (EC 204-371-1, CAS 120-12-7), Benzo[def]chrysene (EC 200-028-5, CAS 50-32-8), Benzyl butyl phthalate (BBP) (EC 201-622-7, CAS 85-68-7), Bis (2-ethyl(hexyl))phthalate (DEHP) (EC 204-211-0, CAS 117-81-7), Dibutyl phthalate (DBP) (EC 201-557-4, CAS 84-74-2)

Contains no REACH Annex XIV substances in concentration \geq to the Annex XIV limit values

15.1.2. National regulations

Germany

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

PHV SDS EU

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