

Safety Data Sheet

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

Date of issue: 19/07/2017 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 PAH Mix
Product code : AL0-130136
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)







GHS0

GHS

Signal word (CLP) : Danger

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Precautionary statements (CLP)

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: H312+H332 - Harmful in contact with skin or if inhaled Hazard statements (CLP)

H340 - May cause genetic defects

H350 - May cause cancer

H410 - Very toxic to aquatic life with long lasting effects : 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+P235 - Store in a well-ventilated place. Keep cool

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

EUH-statements EUH208 - Contains 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

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	96.2	Carc. 2, H351
anthracene (Component) substance listed as REACH Candidate	(CAS-No.) 120-12-7 (EC-No.) 204-371-1	0.2	Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
acenaphthene (Component)	(CAS-No.) 83-32-9 (EC-No.) 201-469-6	0.2	Eye Irrit. 2, H319 Aquatic Chronic 2, H411
Benzo(b)fluoranthene (Component)	(CAS-No.) 205-99-2 (EC-No.) 205-911-9 (EC Index-No.) 601-034-00-4	0.2	Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
acenaphthylene (Component)	(CAS-No.) 208-96-8 (EC-No.) 205-917-1	0.2	Acute Tox. 1 (Dermal), H310
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	0.2	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	0.2	Carc. 1B, H350 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
benzo(ghi)perylene (Component)	(CAS-No.) 191-24-2 (EC-No.) 205-883-8	0.2	Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410
fluoranthene (Component)	(CAS-No.) 206-44-0 (EC-No.) 205-912-4	0.2	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	0.2	Muta. 2, H341 Carc. 1B, H350 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)
benzo[k]fluoranthene (Component)	(CAS-No.) 207-08-9 (EC-No.) 205-916-6 (EC Index-No.) 601-036-00-5	0.2	Carc. 1B, H350 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	0.2	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	0.2	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	0.2	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
naphthalene (Component)	(CAS-No.) 91-20-3 (EC-No.) 202-049-5 (EC Index-No.) 601-052-00-2	0.2	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
pyrene (Component)	(CAS-No.) 129-00-0 (EC-No.) 204-927-3	0.2	Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
phenanthrene (Component)	(CAS-No.) 85-01-8 (EC-No.) 201-581-5	0.2	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	0.2	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411
2-methylnaphthalene (Component)	(CAS-No.) 91-57-6 (EC-No.) 202-078-3	0.2	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

First-aid measures after eye contact

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.

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.

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.

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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.

 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)

Hygiene measures

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Physical state

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.

: Liquid

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

Colour Colourless Odour · characteristic рΗ : No data available : No data available Melting point 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 : No data available Solubility Explosive properties No data available Oxidising properties : No data available

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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.

Acute toxicity	: Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.
Custom PAH Mix	
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
anthracene (120-12-7)	
LD50 oral rat	> 16000 mg/kg (Rat)
acenaphthene (83-32-9)	
LD50 oral rat	> 5000 mg/kg (Rat)
acenaphthylene (208-96-8)	
ATE CLP (dermal)	5 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
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
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
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

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Methylene Chloride (75-09-2)	
LD50 oral rat	> 2000 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Literature study)
Skin corrosion/irritation	: Not classified
	Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
	Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
	Based on available data, the classification criteria are not met
Germ cell mutagenicity	: 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	: Harmful in contact with skin.

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.	
anthracene (120-12-7)		
LC50 fish 2	0.00127 mg/l (LC50; 96 h)	
EC50 Daphnia 2	0.0012 mg/l (EC50; 24 h)	
acenaphthene (83-32-9)		
EC50 Daphnia 1	3.45 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)	
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)	
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)	
naphthalene (91-20-3)		
EC50 Daphnia 1	2.16 mg/l (EC50; 48 h; Daphnia magna)	
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naphthalene (91-20-3)	
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)
1-methylnaphthalene (90-12-0)	orring. (2000, 72 ii, oresterionia occasaiii)
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)	1200 pg. (2000, 11 days)
LC50 fish 1	8 mg/l (LC50; 96 h)
	0 mg/ (2000, 00 m)
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)
ū	0.9 mg/i (EC30, 4 m)
pyrene (129-00-0)	> 0.0057 mm/l /l 050, 0.4 h)
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)	400 // // 050 001 8: 1 1
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 PAH Mix	
Persistence and degradability	May cause long-term adverse effects in the environment.
	May dauge long term dayone oneste in the drivinonment.
anthracene (120-12-7)	Not readily histogradable in water Ferming additionts in water
Persistence and degradability ThOD	Not readily biodegradable in water. Forming sediments in water. 3.41 g O□ /g substance
BOD (% of ThOD)	0.02
,	0.02
acenaphthene (83-32-9)	Not voodily his degradable in water Adequae into the seil
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.
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	2.9 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
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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.
fluoranthene (206-44-0)	
Persistence and degradability	Forming sediments in water.
fluorene (86-73-7)	1 •
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.
ThOD	2.02 g O□ /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.
ů ,	Adsorbs into the soil.
ThOD	2.9 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
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.
phenanthrene (85-01-8)	, , ,
Persistence and degradability	Biodegradable in water. Forming sediments in water. Adsorbs into the soil.
pyrene (129-00-0)	2.040g.444220 iii iiddii i oniiiig oodiiioilo iii iiddii i dadaa oo
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.
2.3. Bioaccumulative potential	, , , ,
Custom PAH Mix	
Bioaccumulative potential	Not established.
'	Not established.
anthracene (120-12-7)	000 2000 (DCE)
BCF fish 1 BCF fish 2	903 - 2820 (BCF) 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).
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.
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).
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hamma[a]n.mana (50 22 0)	
benzo[a]pyrene (50-32-8)	400 (PCE: 72 h)
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).
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).
	The first potential for bloadcarmination (Log Now - 0).
dibenz(a,h)anthracene (53-70-3)	5.97 - 6.84
Log Pow	3.97 - 0.04
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).
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).
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).
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according to Regulation (EC) No. 1907/2006 (REACH) with i	
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 Bioaccumulative potential	4.88 - 5.32 High potential for bioaccumulation (Log Kow > 5).
ı	night potential for bloaccumulation (Log Kow > 5).
Methylene Chloride (75-09-2)	0. 40 (005)
BCF fish 1	2 - 40 (BCF)
Log Pow Bioaccumulative potential	1.25 (Experimental value) Low potential for bioaccumulation (BCF < 500).
·	Low potential for bloaccumulation (BCF < 500).
12.4. Mobility in soil	
naphthalene (91-20-3)	
Surface tension	0.03 N/m (100 °C)
1-methylnaphthalene (90-12-0)	
Log Koc	Koc,2300
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	
Component	
anthracene (120-12-7)	This substance/mixture meets the PBT criteria of REACH regulation, annex XIII
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
anthracene (120-12-7) benzo[a]pyrene (50-32-8)	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII 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
, ,	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII This substance/mixture meets the PBT criteria of REACH regulation, annex XIII
benzo[a]pyrene (50-32-8)	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII This substance/mixture meets the PBT criteria of REACH regulation, annex XIII
benzo[a]pyrene (50-32-8) 12.6. Other adverse effects Additional information	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII This substance/mixture meets the PBT criteria of REACH regulation, annex XIII This substance/mixture meets the vPvB criteria of REACH regulation, annex XIII : Avoid release to the environment
benzo[a]pyrene (50-32-8) 12.6. Other adverse effects Additional information SECTION 13: Disposal considerations	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII This substance/mixture meets the PBT criteria of REACH regulation, annex XIII This substance/mixture meets the vPvB criteria of REACH regulation, annex XIII **Avoid release to the environment*
benzo[a]pyrene (50-32-8) 12.6. Other adverse effects Additional information SECTION 13: Disposal considerations 13.1. Waste treatment methods	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII This substance/mixture meets the PBT criteria of REACH regulation, annex XIII This substance/mixture meets the vPvB criteria of REACH regulation, annex XIII : Avoid release to the environment
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benzo[a]pyrene (50-32-8) 12.6. Other adverse effects Additional information SECTION 13: Disposal considerations 13.1. Waste treatment methods Product/Packaging disposal recommendations Ecology - waste materials	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII This substance/mixture meets the PBT criteria of REACH regulation, annex XIII This substance/mixture meets the vPvB criteria of REACH regulation, annex XIII : Avoid release to the environment : Dispose in a safe manner in accordance with local/national regulations.
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 Classification code (ADR)
 : M6

 Class (IATA)
 : 9

 Class (IMDG)
 : 9

 Class (ADN)
 : 9

 Classification code (ADN)
 : M6

 Danger labels (ADR)
 : 9



Hazard labels (IATA) : 9



Danger labels (IMDG) : 9



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

Transport category (ADR) : 3
Tunnel restriction code (ADR) : E
Limited quantities (ADR) : 51
Excepted quantities (ADR) : E1

14.6.2. Transport by sea

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, LP01

Special packing provisions (IMDG) : PP1

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 IBC packing instructions (IMDG)
 : IBC03

 Tank instructions (IMDG)
 : T4

 Tank special provisions (IMDG)
 : TP2, TP29

 EmS-No. (Fire)
 : F-A

 EmS-No. (Spillage)
 : S-F

 Stowage category (IMDG)
 : A

14.6.3. Air transport

CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L
PCA packing instructions (IATA) : 964
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA max net quantity (IATA) : 450L
PCA Excepted quantities (IATA) : E1

Special provisions (IATA) : A97, A158, A197

ERG code (IATA) : 9L

14.6.4. Inland waterway transport

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

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP

Number of blue cones/lights (ADN) : 0

Carriage prohibited (ADN) : No

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration ≥ 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)

Contains no 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, 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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