

Safety Data Sheet

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

Revision date: Date of issue: 27/10/2017

Version: 1.0

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

1.1. Product identifier

Product form : Mixture : 610 PAH Mix 2 Product name Product code : AL0-101505 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

ChemTel Assistance (US/Canada) 1-800-255-3924 **Emergency number**

ChemTel Assistance (International) +1 813-248-0585

SECTION 2: Hazards identification

Classification of the substance or mixture

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

H312 Acute Tox. 4 (Dermal) Acute Tox. 4 (Inhalation) H332 H350 Carc. 1B H400 Aquatic Acute 1 Aquatic Chronic 2 H411

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

Carc.Cat.2; R45 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

Label elements

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

Hazard pictograms (CLP)







Signal word (CLP) : Danger

Hazardous ingredients : acenaphthylene; benzo[a]pyrene; dibenz(a,h)anthracene Hazard statements (CLP) : H312+H332 - Harmful in contact with skin or if inhaled

H350 - May cause cancer

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Precautionary statements (CLP)

H410 - Very toxic to aquatic life with long lasting effects

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

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

No labelling applicable

Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methylene Chloride (Component)	(CAS-No.) 75-09-2 (EC-No.) 200-838-9 (EC Index-No.) 602-004-00-3	99.42	Carc. 2, H351
acenaphthylene (Component)	(CAS-No.) 208-96-8 (EC-No.) 205-917-1	0.2	Acute Tox. 1 (Dermal), H310
acenaphthene (Component)	(CAS-No.) 83-32-9 (EC-No.) 201-469-6	0.1	Eye Irrit. 2, H319 Aquatic Chronic 2, H411
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
benzo(ghi)perylene (Component)	(CAS-No.) 191-24-2 (EC-No.) 205-883-8	0.02	Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410
fluoranthene (Component)	(CAS-No.) 206-44-0 (EC-No.) 205-912-4	0.02	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
dibenz(a,h)anthracene (Component)	(CAS-No.) 53-70-3 (EC-No.) 200-181-8 (EC Index-No.) 601-041-00-2	0.02	Carc. 1B, H350 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410
anthracene (Component) substance listed as REACH Candidate	(CAS-No.) 120-12-7 (EC-No.) 204-371-1	0.01	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	0.01	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	0.01	Carc. 1B, H350 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
chrysene (Component)	(CAS-No.) 218-01-9 (EC-No.) 205-923-4 (EC Index-No.) 601-048-00-0	0.01	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	0.01	Carc. 1B, H350 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
pyrene (Component)	(CAS-No.) 129-00-0 (EC-No.) 204-927-3	0.01	Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
Name	Product identifier	Specific c	oncentration 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

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Name	Product identifier	Specific concentration limits
benzo[a]pyrene (Component)	(CAS-No.) 50-32-8 (EC-No.) 200-028-5	(C >= 0.01) Carc. 1B, H350
	(EC Index-No.) 601-032-00-3	

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.

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.

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.

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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/m³)	550 (Benzo(a)pyreen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
naphthalene (91-20-3)		
EU	IOELV TWA (mg/m³)	50 mg/m³ (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/m³)	53 mg/m³ (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/m³)	80 mg/m³ (Naphtalène; Belgium; Short time value)
Belgium	Short time value (ppm)	15 ppm (Naphtalène; Belgium; Short time value)
France	VME (mg/m³)	50 mg/m³ (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/m³)	50 mg/m³ (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/m³)	80 mg/m³ (Naftaleen; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (ppm)	15 ppm (Naftaleen; Netherlands; Short time value; Public occupational exposure limit value)
Methylene Chloride (75-09-2)		
Belgium	Limit value (mg/m³)	177 mg/m³ (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/m³)	356 mg/m³ (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/m³)	178 mg/m³ (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/m³)	350 mg/m³ 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/m³)	1060 mg/m³ Dichloromethane; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)

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Methylene Chloride (75-09-2)		
United Kingdom	WEL STEL (ppm)	300 ppm Dichloromethane; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)

8.2. Exposure controls

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

Personal protective equipment : Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety

glasses.







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

penetration.

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

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

contact.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Colourless. Odour : characteristic. Hq : 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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610 PAH Mix 2	
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)
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
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)
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	: Not classified
•	Based on available data, the classification criteria are not met
Carcinogenicity	: May cause cancer.
,	May cause cancer
Reproductive toxicity	: Not classified
. top. oddouvo toxioity	Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
CTOT single exposure	Based on available data, the classification criteria are not met
0.7.0.7	
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. 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)

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3 3 ()	
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)
	0.0048 High (E030, 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)
naphthalene (91-20-3)	
EC50 Daphnia 1	2.16 mg/l (EC50; 48 h; Daphnia magna)
LC50 Bapillia 1	0.11 mg/l (LC50; 96 h; Oncorhynchus mykiss)
Threshold limit algae 1	0.4 mg/l (EC50; 72 h; Skeletonema costatum)
	0.4 mg/r (EC30, 72 m, Skeletonema costatum)
pyrene (129-00-0)	0.0077 # # # 0.70 0.41
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)
100 0 11	
12.2. Persistence and degradability	
610 PAH Mix 2	
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.
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
,	0.02
benzo[a]anthracene (56-55-3)	Notice of the birds are debte in control Distribution in control Consection in control Consection
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)	
Chemical oxygen demand (COD)	2.92 g O ₂ /g substance
ThOD	2.92 g O ₂ /g substance
benzo(ghi)perylene (191-24-2)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
ThOD	2.9 g O ₂ /g substance

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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
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.
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
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.
	Hottodally blodogradable in water. Blodogradable in the soil.
<u> </u>	
610 PAH Mix 2	
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 BCF other aquatic organisms 1	9200 (BCF) 7770 (BCF; 24 h; Chlorella sp.)
BCF other aquatic organisms 2	10500 (BCF)
Log Pow Bioaccumulative potential	4.5 High potential for bioaccumulation (BCF > 5000).
,	High potential for bloaccumulation (BCF > 5000).
benzo[a]anthracene (56-55-3)	
BCF fish 1	350 (BCF; 72 h)
BCF other aquatic organisms 1	1106 (BCF; 24 h)
BCF other aquatic organisms 2	18000 (BCF; 192 h)
Log Pow	5.61 - 5.79
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
benzo[a]pyrene (50-32-8)	
BCF fish 1	480 (BCF; 72 h)
BCF fish 2	70.7 (BCF; 168 h; Salmo salar)
BCF other aquatic organisms 1	3000 (BCF; 192 h)
BCF other aquatic organisms 2	1.5 (BCF; 24 h)
Log Pow	5.97 - 6.06
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
benzo(ghi)perylene (191-24-2)	
Log Pow	6.51 - 7.23 (Calculated)
Bioaccumulative potential	Bioaccumable.
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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).
dibenz(a,h)anthracene (53-70-3)	
Log Pow	5.97 - 6.84
	0.01 0.01
fluoranthene (206-44-0)	2004 (DCE)
BCF fish 2	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).
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).
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)
Log Pow	1.25 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
	Low potential for bloaccumulation (BCF < 300).
12.4. Mobility in soil	
naphthalene (91-20-3)	
Surface tension	0.03 N/m (100 °C)
Methylene Chloride (75-09-2)	
Surface tension	0.028 N/m (20 °C)
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
12.5. Results of PBT and vPvB asset	
No additional information available	
no additional information available	
12.6. Other adverse effects	
Additional information	: Avoid release to the environment
050510N 40 D	
SECTION 13: Disposal consider	ations
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

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14.2. UN proper shipping name

Proper Shipping Name (ADR) : TOXIC LIQUID, ORGANIC, N.O.S.

Proper Shipping Name (IATA) : Toxic liquid, organic, n.o.s.

Proper Shipping Name (IMDG) : TOXIC LIQUID, ORGANIC, N.O.S.

Proper Shipping Name (IMDG) : TOXIC LIQUID, ORGANIC, N.O.S.

Proper Shipping Name (ADN) : TOXIC LIQUID, ORGANIC, N.O.S.

Transport document description (ADR) : UN 2810 TOXIC LIQUID, ORGANIC, N.O.S., 6.1, III, (E), ENVIRONMENTALLY HAZARDOUS

14.3. Packing group

 Class (ADR)
 : 6.1

 Classification code (ADR)
 : T1

 Class (IATA)
 : 6.1

 Class (IMDG)
 : 6.1

 Class (ADN)
 : 6.1

 Classification code (ADN)
 : T1

 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 :

60 2810

Special provisions (ADR) : 274, 614

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: 2 Transport category (ADR) Tunnel restriction code (ADR) : E Limited quantities (ADR) : 51 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 IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T7 Tank special provisions (IMDG) : TP1. TP28 : F-A EmS-No. (Fire) EmS-No. (Spillage) : S-A

: A Properties and observations (IMDG) : Toxic if swallowed, by skin contact or by inhalation.

14.6.3. Air transport

Stowage category (IMDG)

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

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: Benzo[def]chrysene (EC 200-028-5, CAS 50-32-8)

Contains no REACH Annex XIV substances

15.1.2. **National regulations**

Germany

: 2 - hazard to waters Water hazard class (WGK)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, 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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