

This safety data sheet complies with the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

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Revision Number 3
ENG

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code(s) LK2-CB101801-1
Product Name PAH Mix, 23 Compounds, 200 mg/L
CAS No. Not applicable

Contains Methylene chloride

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

Recommended Use Laboratory chemicals
Production of chemical substance

Uses advised against Not for human consumption

1.3. Details of the supplier of the safety data sheet

Manufacturer
LabKings B.V
Utrechtseweg 5, 1213TK Hilversum, The Netherlands
+31 84 875 63 44
www.labkings.com

1.4. Emergency telephone number

Emergency Telephone Chemtrec, Inside the USA: 1-800-424-9300
Chemtrec, Outside the USA: 001-703-527-3887

Europe	112
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Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Carcinogenicity	Category 1B - (H350)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Regulation (EC) No 1272/2008
Contains Methylene chloride

**Signal word**

Danger

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H350 - May cause cancer

H411 - Toxic to aquatic life with long lasting effects

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308 + P313 - IF exposed or concerned: Get medical advice/attention

2.3. Other hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

The exact concentration of each component can be found on the Certificate of Analysis

Chemical name	CAS No.	Molecular weight (g/mol)	Weight-%
Methylene chloride	75-09-2	84.93	99.54
pyrene	129-00-0	202.25	0.02
phenanthrene	85-01-8	178.22	0.02
perylene	198-55-0	252.30	0.02
naphthalene	91-20-3	128.17	0.02
indeno[1,2,3-cd]pyrene	193-39-5	276.33	0.02
fluorene	86-73-7	166.21	0.02
fluoranthene	206-44-0	202.25	0.02
dibenzo(a,l)pyrene	191-30-0	302.36	0.02
dibenzo(a,i)pyrene	189-55-9	302.36	0.02
dibenzo(a,h)pyrene	189-64-0	302.36	0.02
dibenzo(a,e)pyrene	192-65-4	302.36	0.02
dibenz[a,h]anthracene	53-70-3	278.34	0.02
chrysene	218-01-9	228.28	0.02
benzo[k]fluoranthene	207-08-9	252.30	0.02
benzo[ghi]perylene	191-24-2	276.33	0.02
benzo[e]pyrene	192-97-2	252.30	0.02
benzo[b]fluoranthene	205-99-2	252.30	0.02
benzo[a]pyrene	50-32-8	252.30	0.02
benzo[a]anthracene	56-55-3	228.28	0.02
benzo(j)fluoranthene	205-82-3	252.30	0.02
anthracene	120-12-7	178.22	0.02
acenaphthylene	208-96-8	152.19	0.02
acenaphthene	83-32-9	154.20	0.02

3.2 Mixtures

Chemical name	CAS No.	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methylene chloride	75-09-2	Carc. 2 (H351)
pyrene	129-00-0	No data available
phenanthrene	85-01-8	No data available
perylene	198-55-0	No data available
naphthalene	91-20-3	Acute Tox. 4 (H302) Carc. 2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
indeno[1,2,3-cd]pyrene	193-39-5	No data available
fluorene	86-73-7	No data available
fluoranthene	206-44-0	No data available
dibenzo(a,l)pyrene	191-30-0	No data available
dibenzo(a,i)pyrene	189-55-9	No data available
dibenzo(a,h)pyrene	189-64-0	No data available
dibenzo(a,e)pyrene	192-65-4	No data available
dibenz[a,h]anthracene	53-70-3	Carc. 1B (H350) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
chrysene	218-01-9	Muta. 2 (H341) Carc. 1B (H350) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
benzo[k]fluoranthene	207-08-9	Carc. 1B (H350) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
benzo[ghi]perylene	191-24-2	No data available
benzo[e]pyrene	192-97-2	Carc. 1B (H350) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
benzo[b]fluoranthene	205-99-2	Carc. 1B (H350) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
benzo[a]pyrene	50-32-8	Skin Sens. 1 (H317) Muta. 1B (H340) Carc. 1B (H350) Repr. 1B (H360FD) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
benzo[a]anthracene	56-55-3	Carc. 1B (H350) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
benzo(j)fluoranthene	205-82-3	Carc. 1B (H350) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
anthracene	120-12-7	No data available
acenaphthylene	208-96-8	No data available
acenaphthene	83-32-9	No data available

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES**4.1. Description of first aid measures**

General advice	Get medical attention immediately if symptoms occur.
Inhalation	Remove to fresh air. If breathing is difficult, administer oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get immediate medical advice/attention.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Get immediate medical advice/attention.
Ingestion	Do not induce vomiting. Call a physician or poison control center immediately.

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

Symptoms	Difficulty in breathing. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Eye irritation. Skin irritation.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media	Dry chemical, CO ₂ , alcohol-resistant foam or water spray.
Unsuitable extinguishing media	CAUTION: Use of water spray when fighting fire may be inefficient.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	Thermal decomposition can lead to release of irritating and toxic gases and vapors. Keep product and empty container away from heat and sources of ignition. Containers may explode when heated.
Hazardous combustion products	Carbon monoxide (CO). Carbon dioxide (CO ₂). Hydrogen chloride. Phosgene.

5.3. Advice for firefighters

Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment as required. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak. Handle within a fume cupboard or implement suitable equivalent methods to minimize exposure.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	Should not be released into the environment. See Section 12 for additional Ecological Information.
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6.3. Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information.
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Section 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Advice on safe handling	Use personal protection equipment. Avoid contact with eyes. Avoid breathing vapors or mists. Avoid contact with skin. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Handle in a fume cupboard.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. For more information, see product label and/or certificate of analysis.
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7.3. Specific end use(s)

Risk Management Methods (RMM)	The information required is contained in this Material Safety Data Sheet.
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Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters****Exposure Limits**

Chemical name	European Union	United Kingdom	France	Spain	Germany
Methylene chloride 75-09-2	-	TWA: 100 ppm TWA: 350 mg/m ³ STEL: 300 ppm STEL: 1060 mg/m ³ Sk*	TWA: 50 ppm TWA: 178 mg/m ³ STEL: 100 ppm STEL: 356 mg/m ³ *	TWA: 50 ppm TWA: 177 mg/m ³	TWA: 50 ppm TWA: 180 mg/m ³ H*
naphthalene 91-20-3	TWA 10 ppm TWA 50 mg/m ³	-	TWA: 10 ppm TWA: 50 mg/m ³	TWA: 10 ppm TWA: 53 mg/m ³ STEL: 15 ppm STEL: 80 mg/m ³ vía dérmica*	TWA: 0.1 ppm TWA: 0.5 mg/m ³ H*
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Methylene chloride 75-09-2	-	TWA: 50 ppm	-	TWA: 100 ppm TWA: 350 mg/m ³ STEL: 250 ppm STEL: 880 mg/m ³	TWA: 35 ppm TWA: 122 mg/m ³ H*
pyrene 129-00-0	-	-	-	-	TWA: 0.2 mg/m ³
phenanthrene 85-01-8	-	-	-	-	TWA: 0.2 mg/m ³

perylene 198-55-0	-	-	-	-	TWA: 0.2 mg/m ³
naphthalene 91-20-3	-	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm P*	TWA: 50 mg/m ³ STEL: 80 mg/m ³	TWA: 1 ppm TWA: 5 mg/m ³ STEL: 2 ppm STEL: 10 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ TWA: 0.2 mg/m ³
indeno[1,2,3-cd]pyrene 193-39-5	-	-	-	-	TWA: 0.2 mg/m ³
fluorene 86-73-7	-	-	-	-	TWA: 0.2 mg/m ³
fluoranthene 206-44-0	-	-	-	-	TWA: 0.2 mg/m ³
dibenzo(a,l)pyrene 191-30-0	-	-	-	-	TWA: 0.2 mg/m ³
dibenzo(a,i)pyrene 189-55-9	-	-	-	-	TWA: 0.2 mg/m ³
dibenzo(a,h)pyrene 189-64-0	-	-	-	-	TWA: 0.2 mg/m ³
dibenzo(a,e)pyrene 192-65-4	-	-	-	-	TWA: 0.2 mg/m ³
dibenz[a,h]anthracene 53-70-3	-	-	-	-	TWA: 0.2 mg/m ³
chrysene 218-01-9	-	-	-	-	TWA: 0.2 mg/m ³
benzo[k]fluoranthene 207-08-9	-	-	-	-	TWA: 0.2 mg/m ³
benzo[ghi]perylene 191-24-2	-	-	-	-	TWA: 0.2 mg/m ³
benzo[e]pyrene 192-97-2	-	-	-	-	TWA: 0.2 mg/m ³
benzo[b]fluoranthene 205-99-2	-	-	-	-	TWA: 0.2 mg/m ³
benzo[a]pyrene 50-32-8	-	-	TWA: 0.00055 mg/m ³	TWA: 0.01 mg/m ³ iho*	TWA: 0.2 mg/m ³
benzo[a]anthracene 56-55-3	-	-	-	-	TWA: 0.2 mg/m ³
benzo(j)fluoranthene 205-82-3	-	-	-	-	TWA: 0.2 mg/m ³
anthracene 120-12-7	-	-	-	-	TWA: 0.2 mg/m ³
acenaphthylene 208-96-8	-	-	-	-	TWA: 0.2 mg/m ³
acenaphthene 83-32-9	-	-	-	-	TWA: 0.2 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Methylene chloride 75-09-2	TWA: 50 ppm TWA: 175 mg/m ³ STEL 200 ppm STEL 700 mg/m ³ H*	TWA: 50 ppm TWA: 180 mg/m ³	TWA: 88 mg/m ³	TWA: 15 ppm TWA: 50 mg/m ³ STEL: 15 ppm STEL: 50 mg/m ³ H*	TWA: 50 ppm TWA: 174 mg/m ³ STEL: 150 ppm STEL: 550 mg/m ³ Sk*
naphthalene 91-20-3	TWA: 10 ppm TWA: 50 mg/m ³ H*	TWA: 10 ppm TWA: 50 mg/m ³ H*	STEL: 50 mg/m ³ TWA: 20 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 10 ppm STEL: 50 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm STEL: 75 mg/m ³
dibenz[a,h]anthracene 53-70-3	-	-	TWA: 0.004 mg/m ³	-	-
benzo[a]pyrene 50-32-8	-	TWA: 0.002 mg/m ³ H*	TWA: 0.002 mg/m ³	-	-

Biological occupational exposure limits

Chemical name	European Union	United Kingdom	France	Spain	Germany
Methylene chloride 75-09-2	-	30	-	0.3	
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Methylene chloride 75-09-2	-	0.5 5	-	-	-

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls Apply technical measures to comply with the occupational exposure limits. Showers, eyewash stations, and ventilation systems. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand Protection Protective gloves. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Wash hands thoroughly after handling.

Skin and body protection Chemical resistant apron. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state Liquid
Appearance May vary
Odor May vary.
Color May vary
Odor threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
Melting point / freezing point	-97 °C	None known
Boiling point / boiling range	39 °C	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	23 vol %	
Lower flammability limit:	13 vol %	
Vapor pressure	20 mmHg @ 3502°C	None known

Vapor density	2.93 (Air = 1.0)	None known
Relative density	1.33	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	556 °C	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No information available	
Oxidizing properties	No information available	

9.2. Other information

Softening point	No information available
Molecular weight (g/mol)	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk density	No information available
Particle Size	No information available
Particle Size Distribution	No information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

10.4. Conditions to avoid

Conditions to avoid Incompatible materials. Excessive heat.

10.5. Incompatible materials

Incompatible materials Strong oxidizing agents. Strong acids. Amines.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen chloride. Phosgene.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects**Information on likely routes of exposure****Product Information**

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Information on toxicological effects

Symptoms Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Skin irritation. Eye irritation. May cause cancer.

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document mg/kg

Unknown acute toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity.

100 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Methylene chloride	= 1600 mg/kg (Rat)	>2000 mg/kg (Rat)	= 53 mg/L (Rat) 6 h = 76000 mg/m ³ (Rat) 4 h
pyrene	= 2700 mg/kg (Rat)		
phenanthrene	= 1.8 g/kg (Rat)		
naphthalene	= 490 mg/kg (Rat) = 1110 mg/kg (Rat)	= 1120 mg/kg (Rabbit) > 20 g/kg (Rabbit)	> 340 mg/m ³ (Rat) 1 h
fluoranthene	= 2 g/kg (Rat)	= 3180 mg/kg (Rabbit)	
anthracene	> 16000 mg/kg (Rat)	> 1320 mg/kg (Rat)	
acenaphthene	= 10000 mg/kg (Rat)		

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Irritating to skin.

Serious eye damage/eye irritation Irritating to eyes.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity Contains a known or suspected mutagen.

Chemical name	European Union
chrysene	Muta. 2
benzo[a]pyrene	Muta. 1B

Carcinogenicity Classification based on data available for ingredients. Contains a known or suspected carcinogen.

Chemical name	European Union
Methylene chloride	Carc. 2
naphthalene	Carc. 2
dibenz[a,h]anthracene	Carc. 1B
chrysene	Carc. 1B
benzo[k]fluoranthene	Carc. 1B

benzo[e]pyrene	Carc. 1B
benzo[b]fluoranthene	Carc. 1B
benzo[a]pyrene	Carc. 1B
benzo[a]anthracene	Carc. 1B
benzo(j)fluoranthene	Carc. 1B

Reproductive toxicity Experiments have shown reproductive toxicity effects on laboratory animals.

Developmental toxicity Developmental effects have occurred in experimental animals. Component substance is listed on California Proposition 65 as a developmental hazard.

Teratogenicity Contains a known or suspected reproductive toxin.

Chemical name	European Union
benzo[a]pyrene	Repr. 1B

STOT - single exposure Central nervous system. Respiratory system.

STOT - repeated exposure liver. kidney. blood.

Aspiration hazard No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity The environmental impact of this product has not been fully investigated. Should not be released into the environment. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Methylene chloride	500: 72 h Pseudokirchneriella subcapitata mg/L EC50 500: 96 h Pseudokirchneriella subcapitata mg/L EC50	140.8 - 277.8: 96 h Pimephales promelas mg/L LC50 flow-through 262 - 855: 96 h Pimephales promelas mg/L LC50 static 193: 96 h Lepomis macrochirus mg/L LC50 static 193: 96 h Lepomis macrochirus mg/L LC50 flow-through	EC50 = 1 mg/L 24 h EC50 = 2.88 mg/L 15 min	1532 - 1847: 48 h Daphnia magna mg/L EC50 Static 190: 48 h Daphnia magna mg/L EC50
pyrene	-	-	-	1.8: 48 h water flea mg/L EC50
naphthalene	0.4: 72 h Skeletonema costatum mg/L EC50	0.91 - 2.82: 96 h Oncorhynchus mykiss mg/L LC50 static 1.6: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 5.74 - 6.44: 96 h Pimephales promelas mg/L LC50 flow-through 31.0265: 96 h Lepomis macrochirus mg/L LC50 static 1.99: 96 h Pimephales promelas mg/L LC50 static	-	1.09 - 3.4: 48 h Daphnia magna mg/L EC50 Static 1.96: 48 h Daphnia magna mg/L EC50 Flow through 2.16: 48 h Daphnia magna mg/L LC50
chrysene	-	-	-	1.9: 2 h water flea mg/L EC50
benzo[a]anthracene	-	-	-	0.01: 96 h Daphnia magna mg/L LC50 Static

				0.0042: 48 h Daphnia magna mg/L EC50
anthracene	0.0039 - 0.0374: 22 h Pseudokirchneriella subcapitata mg/L EC50	0 - 0.00318: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.00278: 96 h Lepomis macrochirus mg/L LC50 static	-	0.081 - 0.112: 48 h Daphnia magna mg/L EC50
acenaphthene	0.23 - 1.15: 96 h Pseudokirchneriella subcapitata mg/L EC50	0.509: 96 h Pimephales promelas mg/L LC50 flow-through 1.3 - 2.1: 96 h Lepomis macrochirus mg/L LC50 static 0.6 - 0.75: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	-	1.102 - 1.475: 48 h Daphnia magna mg/L EC50 Static 3.45: 48 h Daphnia magna mg/L EC50 41: 48 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential**Bioaccumulation**

Chemical name	Partition coefficient
Methylene chloride	1.25
pyrene	4.88
phenanthrene	4.46
naphthalene	3.3
indeno[1,2,3-cd]pyrene	6.584
fluorene	4.18
fluoranthene	5.33
dibenz[a,h]anthracene	6.50
chrysene	5.61 - 5.91
benzo[k]fluoranthene	6.84
benzo[ghi]perylene	7.23
benzo[b]fluoranthene	6.57
benzo[a]pyrene	6.06
benzo[a]anthracene	5.61
anthracene	4.54
acenaphthylene	4.07
acenaphthene	3.91 - 4.43

12.4. Mobility in soil

Mobility in soil No information available.

Mobility Will likely be mobile in the environment due to its volatility.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

12.6. Other adverse effects

Other adverse effects No information available.

Endocrine Disruptor Information .

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances
benzo[a]pyrene	Group III Chemical	-
benzo[a]anthracene	Group III Chemical	-

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

Section 14: TRANSPORT INFORMATION

IMDG

14.1 UN/ID no. UN1593
 14.2 Proper shipping name Dichloromethane
 14.3 Hazard Class 6.1
 14.4 Packing Group III
 14.5 Marine pollutant No information available
 14.6 Special Provisions No information available
 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

RID

14.1 UN/ID no. UN1593
 14.2 Proper shipping name Dichloromethane
 14.3 Hazard Class 6.1
 14.4 Packing Group III
 14.5 Environmental hazard No information available
 14.6 Special Provisions No information available

ADR

14.1 UN/ID no. UN1593
 14.2 Proper shipping name Dichloromethane
 14.3 Hazard Class 6.1
 14.4 Packing Group III
 14.5 Environmental hazard No information available
 14.6 Special Provisions No information available

IATA

14.1 UN/ID no. UN1593
 14.2 Proper shipping name Dichloromethane
 14.3 Hazard Class 6.1
 14.4 Packing Group III
 14.5 Environmental hazard No information available
 14.6 Special Provisions No information available

Section 15: REGULATORY INFORMATION

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

France
 Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Methylene chloride 75-09-2	RG 12	-
benzo[a]pyrene 50-32-8	RG 16, RG 16bis, RG 36	-

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Methylene chloride - 75-09-2	59.	
dibenz[a,h]anthracene - 53-70-3	28. 50[h].	
chrysene - 218-01-9	28. 50[d].	
benzo[k]fluoranthene - 207-08-9	28. 50[g].	
benzo[e]pyrene - 192-97-2	28. 50[b].	
benzo[b]fluoranthene - 205-99-2	28. 50[e].	
benzo[a]pyrene - 50-32-8	30. 28. 50[a]. 29.	
benzo[a]anthracene - 56-55-3	28. 50[c].	
benzo(j)fluoranthene - 205-82-3	28. 50[f].	

Persistent Organic Pollutants

This product contains substances which are regulated pursuant to Regulation (EC) 850/2004 of the European Parliament and of the Council on persistent organic pollutants

Chemical name	Persistent Organic Pollutants per (EC) 850/2004 - Annex Number
indeno[1,2,3-cd]pyrene - 193-39-5	ANNEX III
benzo[k]fluoranthene - 207-08-9	ANNEX III
benzo[b]fluoranthene - 205-99-2	ANNEX III
benzo[a]pyrene - 50-32-8	ANNEX III

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

International Inventories

TSCA	Does not comply
DSL/NDL	Does not comply
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report

A Chemical Safety Assessment has not been carried out for this substance

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H350 - May cause cancer in contact with skin
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H341 - Suspected of causing genetic defects if swallowed
H317 - May cause an allergic skin reaction
H340 - May cause genetic defects if swallowed
H360FD - May damage fertility. May damage the unborn child
H351 - Suspected of causing cancer if swallowed
H302 - Harmful if swallowed

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

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Reason for revision SDS sections updated

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet