

Safety Data Sheet

16 PAHs in Dichloromethane

Version : V2.0.0.1

Report No. : BWQ9072-2016-MSDS-EP

Creation Date : 2026/01/04

Revision Date : -



*Prepared in accordance with EU REACH Regulation (REACH 1907/2006 with amendment 2020/878)

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

1.1 Product identifier

Product Name	16 PAHs in Dichloromethane
Cat No.	BWQ9072-2016
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable
REACH Registration Number	-
UFI	No information available

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

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

1.3 Details of the supplier of the Safety Data Sheet

Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

1.4 Emergency telephone number

Emergency telephone number	010-58103678
Opening hours	24h

2 Hazards identification

2.1 CLP classification according to Regulation (EC) No. 1272/2008 with amendment 2023/707

Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1B
Hazardous to the aquatic environment - short-term (acute) hazard	Category 1
Hazardous to the aquatic environment - long-term	Category 3

(chronic) hazard	
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2.2 Label elements

Hazard pictograms	
Signal word	Danger

Hazard statements

H340	May cause genetic defects
H350	May cause cancer
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects
EUH208	Contains sensitising substance. May produce an allergic reaction

Precautionary statements

◆ Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

◆ Response

P391	Collect spillage.
P308+P313	IF exposed or concerned: Get medical advice/attention.

◆ Storage

P405	Store locked up.
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◆ Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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2.3 Other hazards

◆ Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Dichloromethane	Not PBT/vPvB
Naphthalene	Not PBT/vPvB
Acenaphthylene	Insufficient information, temporarily unable to evaluate
Acenaphthene	Insufficient information, temporarily unable to evaluate
Fluorene	Insufficient information, temporarily unable to evaluate
Phenanthrene	Insufficient information, temporarily unable to evaluate
Anthracene	Insufficient information, temporarily unable to evaluate
Fluoranthene	PBT/vPvB
Pyrene	PBT/vPvB

Benz[a]anthracene	Insufficient information, temporarily unable to evaluate
Chrysene	Insufficient information, temporarily unable to evaluate
Benzo[e]acephenanthrylene	Insufficient information, temporarily unable to evaluate
Benzo[k]fluoranthene	Insufficient information, temporarily unable to evaluate
Benzo[def]chrysene	Insufficient information, temporarily unable to evaluate
Indeno[1,2,3-cd]pyrene	Insufficient information, temporarily unable to evaluate
Dibenz[a,h]anthracene	Insufficient information, temporarily unable to evaluate
Benzo[ghi]perylene	Insufficient information, temporarily unable to evaluate

◆ Results of endocrine disrupting properties assessment

Component	Results of endocrine disrupting properties assessment [according to (EU) No 2017/2100 or (EU) No 2018/605]
Dichloromethane	Insufficient information, temporarily unable to evaluate
Naphthalene	Insufficient information, temporarily unable to evaluate
Acenaphthylene	Insufficient information, temporarily unable to evaluate
Acenaphthene	Insufficient information, temporarily unable to evaluate
Fluorene	Insufficient information, temporarily unable to evaluate
Phenanthrene	Insufficient information, temporarily unable to evaluate
Anthracene	Insufficient information, temporarily unable to evaluate
Fluoranthene	Insufficient information, temporarily unable to evaluate
Pyrene	Insufficient information, temporarily unable to evaluate
Benz[a]anthracene	Insufficient information, temporarily unable to evaluate
Chrysene	Insufficient information, temporarily unable to evaluate
Benzo[e]acephenanthrylene	Insufficient information, temporarily unable to evaluate
Benzo[k]fluoranthene	Insufficient information, temporarily unable to evaluate
Benzo[def]chrysene	Insufficient information, temporarily unable to evaluate
Indeno[1,2,3-cd]pyrene	Insufficient information, temporarily unable to evaluate
Dibenz[a,h]anthracene	Insufficient information, temporarily unable to evaluate
Benzo[ghi]perylene	Insufficient information, temporarily unable to evaluate

◆ Other

	Not applicable.
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3 Composition/information on ingredients

3.1 Substance

	Not applicable
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3.2 Mixture

Component	Weight % content(or range)	Classification according to Regulation (EC) No. 1272/2008 with amendment 2023/707 [CLP]	Specific Conc. Limits, M-factors

Dichloromethane CAS : 75-09-2 EC : 200-838-9 Index No. : 602-004-00-3	97.6	Carcinogenicity, Category 2, H351	-
Naphthalene CAS : 91-20-3 EC : 202-049-5 Index No. : 601-052-00-2	0.15	Acute Toxicity - Oral, Category 4, H302; Carcinogenicity, Category 2, H351; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
Acenaphthylene CAS : 208-96-8 EC : 205-917-1 Index No. : -	0.15	Acute Toxicity - Dermal, Category 1, H310; Acute Toxicity - Inhalation, Category 1, H330	-
Acenaphthene CAS : 83-32-9 EC : 201-469-6 Index No. : -	0.15	Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
Fluorene CAS : 86-73-7 EC : 201-695-5 Index No. : -	0.15	Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
Phenanthrene CAS : 85-01-8 EC : 201-581-5 Index No. : -	0.15	Acute Toxicity - Oral, Category 4, H302	-
Anthracene CAS : 120-12-7 EC : 204-371-1 Index No. : -	0.15	Skin Corrosion/Irritation, Category 2, H315; Germ cell mutagenicity, Category 2, H341; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
Fluoranthene CAS : 206-44-0 EC : 205-912-4 Index No. : -	0.15	Acute Toxicity - Oral, Category 4, H302; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
Pyrene CAS : 129-00-0 EC : 204-927-3 Index No. : -	0.15	Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
Benz[a]anthracene CAS : 56-55-3 EC : 200-280-6 Index No. : 601-033-00-9	0.15	Carcinogenicity, Category 1B, H350; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	M=100
Chrysene CAS : 218-01-9 EC : 205-923-4 Index No. : 601-048-00-0	0.15	Germ cell mutagenicity, Category 2, H341; Carcinogenicity, Category 1B, H350; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
Benzo[e]acephenanthryl ene CAS : 205-99-2 EC : 205-911-9	0.15	Carcinogenicity, Category 1B, H350; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic	-

Index No. : 601-034-00-4		environment - long-term (chronic) hazard, Category 1, H410	
Benzo[k]fluoranthene CAS : 207-08-9 EC : 205-916-6 Index No. : 601-036-00-5	0.15	Carcinogenicity, Category 1B, H350; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
Benzo[def]chrysene CAS : 50-32-8 EC : 200-028-5 Index No. : 601-032-00-3	0.15	Sensitization - skin, Category 1, H317; Germ cell mutagenicity, Category 1B, H340; Carcinogenicity, Category 1B, H350; Reproductive toxicity, Category 1B, H360; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	H350B:C ≥ 0.01%
Indeno[1,2,3-cd]pyrene CAS : 193-39-5 EC : 205-893-2 Index No. : -	0.15	Carcinogenicity, Category 2, H351	-
Dibenz[a,h]anthracene CAS : 53-70-3 EC : 200-181-8 Index No. : 601-041-00-2	0.15	Carcinogenicity, Category 1B, H350; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	H350B:C ≥ 0.01%;M=100
Benzo[ghi]perylene CAS : 191-24-2 EC : 205-883-8 Index No. : -	0.15	Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-

4 First-aid measures

4.1 Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Skin contact	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Ingestion	Rinse mouth. Do NOT induce vomiting. Give plenty of water to drink. Rest.
Inhalation	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

4.2 Most important symptoms/effects, acute and delayed

1	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
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4.3 Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Small fire: dry chemical, CO ₂ , water spray or regular foam; Large fire: water spray, fog or regular foam; Fire involving tanks: cool containers with flooding quantities of water until well after fire is out.
Unsuitable extinguishing media	Large fire: Do not scatter spilled material with high-pressure water streams.

5.2 Specific hazards arising from the substance or mixture

1	Development of hazardous combustion gases or vapor possible in the event of fire.
2	May expand or decompose explosively when heated or involved in fire.

5.3 Advice for firefighters

1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

1	Use personal protective equipment, do not breathe gas/mist/vapour/spray.
2	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
3	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

1	Cut off the source of the leak as much as possible.
2	Keep leaks in a ventilated place.
3	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
4	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
5	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

6.4 Reference to other sections

1	Personal Protective Equipment advice is contained in Section 8 of the SDS.
2	Disposal considerations advice is contained in Section 13 of the SDS.

7 Handling and storage

7.1 Precautions for safe handling

◆ Protective measures

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.

◆ Measures to prevent fire

1	Keep away from heat/sparks/open flames/ hot surfaces.
◆ Measures to prevent aerosol and dust generation	
1	Not applicable.
◆ Advice on general occupational hygiene	
1	Wash hands and face after using the substances.
2	Replace the contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

7.3 Specific end use(s)

1	In addition to use mentioned in the Section 1.2, unforeseen other specific end uses.
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8 Exposure controls/personal protection

8.1 Control parameters

◆ Occupational exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m ³	ppm	mg/m ³
Dichloromethane	Japan - JSOH(2024–2025)	50	173	-	-
	Permissible exposure standards for workers in the workplace	50	174	75	217.5
	European Union	100	353	200	706
	France	50	178	100	356
	Germany (AGS)	50	180	100	360
	Germany (DFG)	50	180	100	360
Naphthalene	Permissible exposure standards for workers in the workplace	10	52	15	78
	France	10	50	-	-
	Germany (AGS)	0.4	2	1.6	8
	Italy	10	50	-	-
	Austria	10	50	-	-
	Belgium	10	53	15	80
Chrysene	USA - OSHA	-	0.2	-	-
Benzo[def]chrysene	Germany (AGS)	-	0.0007	-	0.0056

	Austria	-	0.002	-	0.008
	Finland	-	0.01	-	-
	Hungary	-	0.002	-	-
	Latvia	-	0.00015	-	-
	Netherlands	-	0.00055	-	-
Dibenz[a,h]anthracene	Poland	-	0.004	-	-

◆ Biological limit values

Component	Standard	Biological monitoring index	Biological limits value	Sampling time	Remark
Dichloromethane	SCOEL(EU)	COHb/blood	0.04	Not strictly regulated	
		methylene chloride/urine	0.3mg/L	Not strictly regulated	
		methylene chloride/blood	1.0mg/L	Not strictly regulated	
		Dichloromethane(Urine)	0.3mg/L	End of shift	
Naphthalene	USA -ACGIH	1-Hydroxypyrene, with hydrolysis (1-HP)(Urine)	2.5µg/L	End of shift at end of work week	
		3-Hydroxybenzo(a)pyrene, with hydrolysis(Urine)	Nonquantitative	End of shift at end of work week	
Acenaphthylene	USA -ACGIH	1-Hydroxypyrene, with hydrolysis (1-HP)(Urine)	2.5µg/L	End of shift at end of work week	
		3-Hydroxybenzo(a)pyrene, with hydrolysis(Urine)	Nonquantitative	End of shift at end of work week	
Acenaphthene	USA -ACGIH	1-Hydroxypyrene, with hydrolysis (1-HP)(Urine)	2.5µg/L	End of shift at end of work week	
		3-Hydroxybenzo(a)pyrene, with hydrolysis(Urine)	Nonquantitative	End of shift at end of work week	
Fluorene	USA -ACGIH	1-Hydroxypyrene, with hydrolysis (1-HP)(Urine)	2.5µg/L	End of shift at end of work week	
		3-Hydroxybenzo(a)pyrene, with hydrolysis(Urine)	Nonquantitative	End of shift at end of work week	
Phenanthrene	USA -ACGIH	1-Hydroxypyrene, with hydrolysis (1-HP)(Urine)	2.5µg/L	End of shift at end of work week	
		3-Hydroxybenzo(a)pyrene, with hydrolysis(Urine)	Nonquantitative	End of shift at end of work week	

		hydrolysis(Urine)		week	
Anthracene	USA -ACGIH	1-Hydroxypyrene, with hydrolysis (1-HP)(Urine)	2.5µg/L	End of shift at end of work week	
		3-Hydroxybenzo(a)pyrene, with hydrolysis(Urine)	Nonquantitative	End of shift at end of work week	
Fluoranthene	USA -ACGIH	1-Hydroxypyrene, with hydrolysis (1-HP)(Urine)	2.5µg/L	End of shift at end of work week	
		3-Hydroxybenzo(a)pyrene, with hydrolysis(Urine)	Nonquantitative	End of shift at end of work week	
Pyrene	USA -ACGIH	1-Hydroxypyrene, with hydrolysis (1-HP)(Urine)	2.5µg/L	End of shift at end of work week	
		3-Hydroxybenzo(a)pyrene, with hydrolysis(Urine)	Nonquantitative	End of shift at end of work week	
Benz[a]anthracene	USA -ACGIH	1-Hydroxypyrene, with hydrolysis (1-HP)(Urine)	2.5µg/L	End of shift at end of work week	
		3-Hydroxybenzo(a)pyrene, with hydrolysis(Urine)	Nonquantitative	End of shift at end of work week	
Chrysene	USA -ACGIH	1-Hydroxypyrene, with hydrolysis (1-HP)(Urine)	2.5µg/L	End of shift at end of work week	
		3-Hydroxybenzo(a)pyrene, with hydrolysis(Urine)	Nonquantitative	End of shift at end of work week	
Benzo[e]acephenanthrylene	USA -ACGIH	1-Hydroxypyrene, with hydrolysis (1-HP)(Urine)	2.5µg/L	End of shift at end of work week	
		3-Hydroxybenzo(a)pyrene, with hydrolysis(Urine)	Nonquantitative	End of shift at end of work week	
Benzo[k]fluoranthene	USA -ACGIH	1-Hydroxypyrene, with hydrolysis (1-HP)(Urine)	2.5µg/L	End of shift at end of work week	
		3-Hydroxybenzo(a)pyrene, with hydrolysis(Urine)	Nonquantitative	End of shift at end of work week	
Benzo[def]chrysene	USA -ACGIH	1-Hydroxypyrene, with hydrolysis	2.5µg/L	End of shift at end of work week	

		(1-HP)(Urine)			
		3-Hydroxybenzo(a)pyrene, with hydrolysis(Urine)	Nonquantitative	End of shift at end of work week	
Indeno[1,2,3-cd]pyrene	USA -ACGIH	1-Hydroxypyrene, with hydrolysis (1-HP)(Urine)	2.5µg/L	End of shift at end of work week	
		3-Hydroxybenzo(a)pyrene, with hydrolysis(Urine)	Nonquantitative	End of shift at end of work week	
Dibenz[a,h]anthracene	USA -ACGIH	1-Hydroxypyrene, with hydrolysis (1-HP)(Urine)	2.5µg/L	End of shift at end of work week	
		3-Hydroxybenzo(a)pyrene, with hydrolysis(Urine)	Nonquantitative	End of shift at end of work week	
Benzo[ghi]perylene	USA -ACGIH	1-Hydroxypyrene, with hydrolysis (1-HP)(Urine)	2.5µg/L	End of shift at end of work week	
		3-Hydroxybenzo(a)pyrene, with hydrolysis(Urine)	Nonquantitative	End of shift at end of work week	

◆ Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 300 and GBZ/T 160 series standard Determination of toxic substances in workplace air.

◆ Derived No effect level (DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Dichloromethane	Inhalation	No data available	No data available	No data available	176 mg/m3
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Naphthalene	Inhalation	No data available	No data available	25 mg/m3	25 mg/m3
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Acenaphthylene	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Acenaphthene	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Fluorene	Inhalation	No data available	No data available	No data available	No data available

	Dermal	No data available	No data available	No data available	No data available
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◆ Predicted No Effect Concentration (PNEC)

Component	A	B	C	D	E	F	G	H
Dichloromethane	130 - 310 µg/L	31 - 130 µg/L	26 mg/L	163 - 2570 µg/kg sediment dw	163 - 260 µg/kg sediment dw	No hazard identified	173 - 330 µg/kg soil dw	No potential for bioaccumulation
Naphthalene	2.4 µg/L	2.4 µg/L	2.9 mg/L	67.2 µg/kg sediment dw	67.2 µg/kg sediment dw	No hazard identified	53.3 µg/kg soil dw	No potential for bioaccumulation

Note 1:

A: Freshwater; B: Seawater; C: Sewage treatment plant; D: Sediment (freshwater); E: Sediment (seawater); F: Air; G: Soil; H: Secondary poisoning(Hazard for Predators).

Note 2:

The PNEC values of the remaining components not shown in the product are not available yet.

8.2 Exposure controls

8.2.1 Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

8.2.2 Personal protection equipment

General requirement	
Eye protection	Must wear appropriate safety goggles.
Hand protection	Must wear appropriate chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear appropriate chemical protective clothing and chemical resistant shoes.

8.2.3 Environmental exposure controls

Environmental exposure controls	No information available
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9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	cLight yellow to light brown liquid
Colour	cLight yellow to light brown liquid
Odor	No information available
Odor threshold	No information available
pH	No information available
Melting point/freezing point(°C)	-97 (Dichloromethane)
Initial boiling point and boiling range(°C)	40 (Dichloromethane)
Flash point(Closed cup, °C)	No information available
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive limits[%d(v/v)]	Upper limit : 22 (Dichloromethane); Lower limit : 13 (Dichloromethane)
Vapor pressure	47.4kPa (20°C,Dichloromethane)
Vapor density(Air = 1)	2.9 (Dichloromethane)
Relative density(Water=1)	1.3 (20°C,Dichloromethane)
Solubility	20g/l (20°C,Dichloromethane)
n-octanol/water partition coefficient	1.25 (Dichloromethane)
Auto-ignition temperature(°C)	605 (Dichloromethane)
Decomposition temperature(°C)	No information available
Kinematic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Particle characteristics	Not applicable

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Information with regard to physical hazard classes	No information available
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9.2.2 Other safety characteristics

Other safety characteristics	No information available
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10 Stability and reactivity

Stability and reactivity

10.1 Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
10.2 Chemical stability	Stable under proper operation and storage conditions.
10.3 Possibility of hazardous reactions	Reactions with metals form metal organic compounds. In contact with halides may cause an active reaction.
10.4 Conditions to avoid	Incompatible materials, heat, flame and spark.
10.5 Incompatible materials	Metal, oxidantss and alkali. Halides, oxidants and halogen.
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 with amendment 2023/707

16 PAHs in Dichloromethane	
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	May cause genetic defects(Category 1B)

Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Fluoranthene	2000mg/kg(Rat)	3180mg/kg(Rabbit)	No information available
Phenanthrene	700mg/kg(Mouse)	No information available	No information available
Naphthalene	490mg/kg(Rat)	> 20000mg/kg(Rabbit)	No information available
Pyrene	2700mg/kg(Rat)	No information available	No information available
Acenaphthylene	1760mg/kg(Mouse)	No information available	No information available
Dichloromethane	1600mg/kg(Rat)	No information available	No information available

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Dichloromethane	Category 2A	Category R
Naphthalene	Category 2B	Category R
Acenaphthylene	Not Listed	Category R
Acenaphthene	Category 3	Category R
Fluorene	Category 3	Category R
Phenanthrene	Category 3	Category R
Anthracene	Category 2B	Category R
Fluoranthene	Category 3	Category R
Pyrene	Category 3	Category R
Benz[a]anthracene	Category 2B	Category R
Chrysene	Category 2B	Category R
Benzo[e]acephenanthrylene	Category 2B	Category R
Benzo[k]fluoranthene	Category 2B	Category R
Benzo[def]chrysene	Category 1(Remark 1)	Category R
Indeno[1,2,3-cd]pyrene	Category 2B	Category R

Dibenz[a,h]anthracene	Category 2A(Remark 2)	Category R
Benzo[ghi]perylene	Category 3	Category R

Remark 1: Overall evaluation upgraded to Group 1 based on mechanistic and other relevant data; Remark 2: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Component	Endocrine disrupting properties
Dichloromethane	No information available
Naphthalene	No information available
Acenaphthylene	No information available
Acenaphthene	No information available
Fluorene	No information available
Phenanthrene	No information available
Anthracene	No information available
Fluoranthene	No information available
Pyrene	No information available
Benz[a]anthracene	No information available
Chrysene	No information available
Benzo[e]acephenanthrylene	No information available
Benzo[k]fluoranthene	No information available
Benzo[def]chrysene	No information available
Indeno[1,2,3-cd]pyrene	No information available
Dibenz[a,h]anthracene	No information available
Benzo[ghi]perylene	No information available

11.2.2 Other Information

Other Information	See Section 11.1
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12 Ecological information

12.1 Toxicity

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Fluoranthene	LC ₅₀ : 0.033mg/L (96h)(Fish)	EC ₅₀ : 0.02mg/L (48h)(Crustaceans)	ErC ₅₀ : 54.5mg/L (96h)(Algae)
Phenanthrene	LC ₅₀ : 1.4mg/L (96h)(Fish)	EC ₅₀ : 1.1mg/L (48h)(Crustaceans)	ErC ₅₀ : 0.64mg/L (72h)(Algae)
Acenaphthene	LC ₅₀ : >2.1mg/L (96h)(Fish)	EC ₅₀ : 1.3mg/L (48h)(Crustaceans)	ErC ₅₀ : 0.52mg/L (96h)(Algae)
Benz[a]anthracene	No information available	EC ₅₀ : 0.00122mg/L	No information available

		(48h)(Crustaceans)	
Naphthalene	LC ₅₀ : 0.9mg/L (96h)(Fish)	EC ₅₀ : 3.6mg/L (48h)(Crustaceans)	No information available
Pyrene	LC ₅₀ : > 0.15mg/L (96h)(Fish)	EC ₅₀ : 0.049mg/L (48h)(Crustaceans)	ErC ₅₀ : >2.7mg/L (72h)(Algae)
Benzo[ghi]perylene	No information available	EC ₅₀ : 0.000587mg/L (48h)(Crustaceans)	No information available
Anthracene	LC ₅₀ : >0.030mg/L (96h)(Fish)	EC ₅₀ : >0.031mg/L (48h)(Crustaceans)	ErC ₅₀ : >0.031mg/L (72h)(Algae)
Benzo[def]chrysene	No information available	EC ₅₀ : 0.0013mg/L (48h)(Crustaceans)	No information available
Dibenz[a,h]anthracene	LC ₅₀ : >0.014mg/L (96h)(Fish)	EC ₅₀ : >0.016mg/L (48h)(Crustaceans)	ErC ₅₀ : >0.0013mg/L (72h)(Algae)
Dichloromethane	LC ₅₀ : 193mg/L (96h)(Fish)	EC ₅₀ : 1470mg/L (48h)(Crustaceans)	No information available
Fluorene	LC ₅₀ : >1.2mg/L (96h)(Fish)	EC ₅₀ : 0.49mg/L (48h)(Crustaceans)	ErC ₅₀ : 0.76mg/L (72h)(Algae)
Indeno[1,2,3-cd]pyrene	LC ₅₀ : >0.0037mg/L (96h)(Fish)	EC ₅₀ : 0.0013mg/L (48h)(Crustaceans)	ErC ₅₀ : 0.0002mg/L (72h)(Algae)

Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Phenanthrene	NOEC : 0.19mg/L(Fish)	NOEC : 0.031mg/L(Crustaceans)	NOEC : 0.092mg/L(Algae)
Acenaphthene	No information available	NOEC : 0.084mg/L(Crustaceans)	NOEC : 0.09mg/L(Algae)
Pyrene	No information available	NOEC : 0.020mg/L(Crustaceans)	NOEC : 1.4mg/L(Algae)
Anthracene	No information available	NOEC : 0.016mg/L(Crustaceans)	NOEC : 0.031mg/L(Algae)
Dibenz[a,h]anthracene	No information available	NOEC : >0.016mg/L(Crustaceans)	NOEC : 0.00033mg/L(Algae)
Fluorene	No information available	No information available	NOEC : 0.074mg/L(Algae)
Indeno[1,2,3-cd]pyrene	No information available	NOEC : 0.0012mg/L(Crustaceans)	NOEC : 0.000053mg/L(Algae)

12.2 Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Naphthalene	High(Half-life = 258 days)	Low(Half-life = 1.23 days)
Acenaphthene	High(Half-life = 204 days)	Low(Half-life = 0.37 days)
Fluorene	Media(Half-life = 120 days)	Low(Half-life = 2.84 days)
Phenanthrene	High(Half-life = 400 days)	Low(Half-life = 0.84 days)
Anthracene	High(Half-life = 920 days)	Low(Half-life = 0.21 days)
Fluoranthene	High(Half-life = 880 days)	Low(Half-life = 0.84 days)
Pyrene	High(Half-life = 3800 days)	Low(Half-life = 0.33 days)
Benz[a]anthracene	High(Half-life = 1360 days)	Low(Half-life = 0.33 days)

Benzo[def]chrysene	High(Half-life = 1060 days)	Low(Half-life = 0.18 days)
Dibenz[a,h]anthracene	High(Half-life = 1880 days)	Low(Half-life = 0.18 days)

12.3 Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Naphthalene	High	BCF=18000
Acenaphthene	Low	BCF=387
Fluorene	Medium	BCF=830
Phenanthrene	Medium	Log Kow=4.46
Anthracene	High	BCF=10500
Fluoranthene	High	Log Kow=5.16
Pyrene	High	Log Kow=4.88
Benz[a]anthracene	High	Log Kow=5.61
Benzo[def]chrysene	High	Log Kow=6.04
Dibenz[a,h]anthracene	High	Log Kow=6.5

12.4 Mobility in soil

Component	log Koc	Remark
Dichloromethane	1.67	20 °C
Naphthalene	2.58	20 °C
Acenaphthene	3.787	
Fluorene	4.053	
Phenanthrene	4.319	
Anthracene	4.46	25 °C
Fluoranthene	4.850	
Pyrene	4.841	
Benz[a]anthracene	5.364	
Benzo[def]chrysene	5.896	
Dibenz[a,h]anthracene	6.419	

12.5 Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Dichloromethane	Not PBT/vPvB
Naphthalene	Not PBT/vPvB
Acenaphthylene	Insufficient information, temporarily unable to evaluate
Acenaphthene	Insufficient information, temporarily unable to evaluate
Fluorene	Insufficient information, temporarily unable to evaluate
Phenanthrene	Insufficient information, temporarily unable to evaluate

Anthracene	Insufficient information, temporarily unable to evaluate
Fluoranthene	PBT/vPvB
Pyrene	PBT/vPvB
Benz[a]anthracene	Insufficient information, temporarily unable to evaluate
Chrysene	Insufficient information, temporarily unable to evaluate
Benzo[e]acephenanthrylene	Insufficient information, temporarily unable to evaluate
Benzo[k]fluoranthene	Insufficient information, temporarily unable to evaluate
Benzo[def]chrysene	Insufficient information, temporarily unable to evaluate
Indeno[1,2,3-cd]pyrene	Insufficient information, temporarily unable to evaluate
Dibenz[a,h]anthracene	Insufficient information, temporarily unable to evaluate
Benzo[ghi]perylene	Insufficient information, temporarily unable to evaluate

12.6 Endocrine disrupting properties

Component	Endocrine disrupting properties
Dichloromethane	No information available
Naphthalene	No information available
Acenaphthylene	No information available
Acenaphthene	No information available
Fluorene	No information available
Phenanthrene	No information available
Anthracene	No information available
Fluoranthene	No information available
Pyrene	No information available
Benz[a]anthracene	No information available
Chrysene	No information available
Benzo[e]acephenanthrylene	No information available
Benzo[k]fluoranthene	No information available
Benzo[def]chrysene	No information available
Indeno[1,2,3-cd]pyrene	No information available
Dibenz[a,h]anthracene	No information available
Benzo[ghi]perylene	No information available

12.7 Other adverse effects

	No information available
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13 Disposal considerations

13.1 Waste treatment methods

Waste chemicals	Before disposal should refer to the relevant national and local laws and
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	regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

14 Transport information

Label and Mark

Transporting Label	
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IMDG-CODE

14.1 UN number	3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3 Transport hazard class	9
14.4 Packing group	III
14.5 Environmental hazards (Yes or no)	Yes

IATA-DGR

14.1 UN number	3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3 Transport hazard class	9
14.4 Packing group	III
14.5 Environmental hazards (Yes or no)	Yes

UN-ADR

14.1 UN number	3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3 Transport hazard class	9
14.4 Packing group	III
14.5 Environmental hazards (Yes or no)	Yes

Special precautions for user

	Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.
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Maritime transport in bulk according to IMO instruments

- ◆ Transport in bulk according to Annex II of MARPOL and the IBC code

	Not Available
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- ◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

	Not Available
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◆ Transport in bulk in accordance with the IGC Code

Not Available

15 Regulatory information

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

International chemical inventory

Component	A	B	C	D	E	F	G	H	I	J	K	L	M
Dichloromethane	√	√	√	√	√	√	√	√	√	√	√	√	√
Naphthalene	√	√	√	√	√	√	√	√	√	√	√	√	√
Acenaphthylene	√	√	√	×	√	√	×	×	√	×	√	√	√
Acenaphthene	√	√	√	√	√	√	√	√	√	√	×	√	√
Fluorene	√	√	√	√	√	√	√	√	√	×	×	√	√
Phenanthrene	√	√	√	√	√	√	√	√	√	×	√	√	√
Anthracene	√	√	√	√	√	√	√	√	√	×	√	√	√
Fluoranthene	√	√	√	×	√	×	×	√	√	×	×	√	√
Pyrene	√	√	√	√	√	√	√	√	√	√	√	√	√
Benz[a]anthracene	√	√	√	×	√	×	×	×	×	×	×	√	√
Chrysene	×	√	√	√	√	×	√	√	×	×	×	√	√
Benzo[e]acephenanthrylene	×	√	×	×	√	×	×	×	×	×	×	√	√
Benzo[k]fluoranthene	×	√	×	×	√	×	×	×	×	×	√	√	√
Benzo[def]chrysene	√	√	√	√	√	√	√	×	×	√	√	√	√
Indeno[1,2,3-cd]pyrene	×	√	√	×	√	×	×	×	×	×	√	√	√
Dibenz[a,h]anthracene	√	√	√	×	√	×	×	×	×	×	√	√	√
Benzo[ghi]perylene	×	√	×	×	√	×	×	×	×	×	√	√	√

- [A] China Inventory of Existing Chemical Substances(IECSC)
 [B] European Inventory of Existing Commercial Chemical Substances(EC inventory)
 [C] United States Toxic Substances Control Act Inventory(TSCA)
 [D] Canadian Domestic Substances List(DSL)
 [E] New Zealand Inventory of Chemicals(NZIoC)
 [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)
 [G] Korea Existing Chemicals Inventory(KECL)
 [H] Australian. Inventory of Industrial Chemical (AIICS)
 [I] Japan Inventory of Existing & New Chemical Substances(ENCS)
 [J] Thailand Existing Chemicals Inventory(TECI)
 [K] Mexico National Inventory of Chemical Substances (INSQ)
 [L] Russia Inventory of Existing Substances(DRAFT)
 [M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

List of Chemical Substances under International Conventions

Component	A	B	C
Dichloromethane	×	×	×
Naphthalene	×	×	×

Acenaphthylene	x	x	x
Acenaphthene	x	x	x
Fluorene	x	x	x
Phenanthrene	x	x	x
Anthracene	x	x	x
Fluoranthene	x	x	x
Pyrene	x	x	x
Benz[a]anthracene	x	x	x
Chrysene	x	x	x
Benzo[e]acephenanthrylene	x	x	x
Benzo[k]fluoranthene	x	x	x
Benzo[def]chrysene	x	x	x
Indeno[1,2,3-cd]pyrene	x	x	x
Dibenz[a,h]anthracene	x	x	x
Benzo[ghi]perylene	x	x	x

【A】 The Montreal Protocol on Substances that Deplete the Ozone Layer

【B】 Stockholm Convention on Persistent Organic Pollutants (POPs)

【C】 Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

European chemical inventory

Component	A	B	C	D	E	F	G	H	I
Dichloromethane	x	x	√	√	√	√	√	x	x
Naphthalene	x	x	√	√	√	√	√	x	x
Acenaphthylene	x	x	√	√	x	x	x	x	x
Acenaphthene	x	x	√	√	√	x	x	x	x
Fluorene	x	x	√	√	√	x	x	x	x
Phenanthrene	√	x	√	√	√	x	x	x	x
Anthracene	√	x	√	√	√	x	√	x	x
Fluoranthene	√	x	√	√	x	x	√	x	x
Pyrene	√	x	√	√	√	x	x	x	x
Benz[a]anthracene	√	x	√	√	x	x	x	x	x
Chrysene	√	x	√	√	x	x	x	x	x
Benzo[e]acephenanthrylene	x	x	√	√	x	x	√	x	√
Benzo[k]fluoranthene	√	x	√	√	x	x	√	x	√
Benzo[def]chrysene	√	x	√	√	x	x	√	x	√
Indeno[1,2,3-cd]pyrene	x	x	√	√	x	x	√	x	√
Dibenz[a,h]anthracene	x	x	√	√	x	x	x	x	x

Benzo[ghi]perylene	√	×	√	√	×	×	√	×	×
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- [A] Candidate list of Substances of Very High Concern for authorization under EU REACH regulation
 [B] Substances requiring authorisation under EU REACH regulation
 [C] Substances restricted under EU REACH
 [D] Pre-registered substances under EU REACH
 [E] Registered substances under EU REACH
 [F] Substance Evaluation – CoRAP under EU REACH
 [G] List of priority substances under EU water policy (Directive 2455/2001/EC)
 [H] Substances subject to POPs Regulation
 [I] Substances proposed as POPs

Note:

- “√” Indicates that the substance included in the regulations.
 “×” No data or not included in the regulations.

German water hazard class(WGK)

Component	WGK	Remark
Dichloromethane	WGK 2	
Naphthalene	WGK 3	
Anthracene	WGK 2	
Fluoranthene	WGK 2	
Benzo[e]acephenanthrylene	WGK 3	
Benzo[k]fluoranthene	WGK 3	
Benzo[def]chrysene	WGK 3	

- 【WGK 1】 slightly hazardous to water
 【WGK 2】 obviously hazardous to water
 【WGK 3】 highly hazardous to water
 【nwg】 non-hazardous to water
 【awg】 hazardous to water in general

German technical instructions on air quality control(TA LUFT)

Component	TA LUFT	Remark
Dichloromethane	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas: Mass flow: 0,10 kg/hr or Mass conc.: 20 mg/m ³	
Naphthalene	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas: Mass flow: 0,10 kg/hr or Mass conc.: 20 mg/m ³	
Acenaphthylene	Chapter 5.2.5 Organic Substances, dust, including fine dust. To be treated as overall dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values: Mass flow: 0,20 kg/hr or Mass conc.: 20 mg/m ³ The mass per unit volume of 0,15 g/m ³ in exhaust gas is not allowed to be exceeded also on observance or lower	

	<p>deviation of a mass flow of 0,20 kg/h. For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m³.</p>	
Acenaphthene	<p>Chapter 5.2.5 Organic Substances, dust, including fine dust. To be treated as overall dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values: Mass flow: 0,20 kg/hr or Mass conc.: 20 mg/m³ The mass per unit volume of 0,15 g/m³ in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h. For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m³.</p>	
Fluorene	<p>Chapter 5.2.5 Organic Substances, dust, including fine dust. To be treated as overall dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values: Mass flow: 0,20 kg/hr or Mass conc.: 20 mg/m³ The mass per unit volume of 0,15 g/m³ in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h. For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m³.</p>	
Phenanthrene	<p>Chapter 5.2.5 Organic Substances, dust, including fine dust. To be treated as overall dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values: Mass flow: 0,20 kg/hr or Mass conc.: 20 mg/m³ The mass per unit volume of 0,15 g/m³ in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h. For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m³.</p>	
Anthracene	<p>Chapter 5.2.5 Organic Substances, dust, including fine dust. To be treated as overall dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values: Mass flow: 0,20 kg/hr or Mass conc.: 20 mg/m³ The mass per unit volume of 0,15 g/m³ in exhaust</p>	

	<p>gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h. For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m³.</p>	
Fluoranthene	<p>Chapter 5.2.5 Organic Substances, dust, including fine dust. To be treated as overall dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values: Mass flow: 0,20 kg/hr or Mass conc.: 20 mg/m³ The mass per unit volume of 0,15 g/m³ in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h. For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m³.</p>	
Pyrene	<p>Chapter 5.2.5 Organic Substances, dust, including fine dust. To be treated as overall dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values: Mass flow: 0,20 kg/hr or Mass conc.: 20 mg/m³ The mass per unit volume of 0,15 g/m³ in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h. For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m³.</p>	
Benz[a]anthracene	<p>Chapter 5.2.7.1.1 Carcinogenic Substances The substance must be assigned to the class (I, II or III) whose substances have the nearest potency. We can not accomplish this evaluation due to insufficiency of data. Carcinogenic substances not mentioned by name and for which no information on potency is available should be assigned to Class I as a precautionary measure.</p>	
Chrysene	<p>Chapter 5.2.7.1.1 Carcinogenic Substances The substance must be assigned to the class (I, II or III) whose substances have the nearest potency. We can not accomplish this evaluation due to insufficiency of data. Carcinogenic substances not mentioned by name and for which no information on potency is available should be assigned to Class I as a precautionary measure.</p>	

Benzo[e]acephenanthrylene	Chapter 5.2.7.1.1 Carcinogenic SubstancesThe substance must be assigned to the class (I, II or III) whose substances have the nearest potency. We can not accomplish this evaluation due to insufficiency of data.Carcinogenic substances not mentioned by name and for which no information on potency is available should be assigned to Class I as a precautionary measure.	
Benzo[k]fluoranthene	Chapter 5.2.7.1.1 Carcinogenic SubstancesThe substance must be assigned to the class (I, II or III) whose substances have the nearest potency. We can not accomplish this evaluation due to insufficiency of data.Carcinogenic substances not mentioned by name and for which no information on potency is available should be assigned to Class I as a precautionary measure.	
Benzo[def]chrysene	Kapitel 5.2.7.1.1 Krebserzeugende Stoffe. Klasse I. Als Mindestanforderung dürfen die folgende Werte im Abgas insgesamt nicht überschritten werden:Mass flow:0,15 g/hr or Mass conc.:0,05 mg/m ³	
Indeno[1,2,3-cd]pyrene	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas:Mass flow:0,10 kg/hr or Mass conc.:20 mg/m ³	
Dibenz[a,h]anthracene	Chapter 5.2.7.1.1 Carcinogenic SubstancesThe substance must be assigned to the class (I, II or III) whose substances have the nearest potency. We can not accomplish this evaluation due to insufficiency of data.Carcinogenic substances not mentioned by name and for which no information on potency is available should be assigned to Class I as a precautionary measure.	
Benzo[ghi]perylene	Chapter 5.2.5 Organic Substances, dust,including fine dust.To be treated as overall dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values:Mass flow:0,20 kg/hr or Mass conc.:20 mg/m ³ The mass per unit volume of 0,15 g/m ³ in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h.For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m ³ .	

German technical rules for hazardous substances(TRGS)

Component	TRGS	Remark
Dichloromethane	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 402 TRGS 401 TRGS 500 TRGS 509 TRGS 510	
Naphthalene	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 402 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 720 TRGS 721 TRGS 722 TRGS 723 TRGS 724	
Acenaphthylene	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 720 TRGS 721 TRGS 722 TRGS 723 TRGS 724	
Acenaphthene	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 720 TRGS 721 TRGS 722 TRGS 723 TRGS 724	
Fluorene	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 500 TRGS 509 TRGS 510 TRGS 800	
Phenanthrene	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 720 TRGS 721 TRGS 722 TRGS 723 TRGS 724	
Anthracene	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 720 TRGS 721 TRGS 722 TRGS 723 TRGS 724	
Fluoranthene	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 500 TRGS 509 TRGS 510 TRGS 800	
Pyrene	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 720 TRGS 721 TRGS 722 TRGS 723 TRGS 724	
Benz[a]anthracene	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 401 TRGS 410 TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 560 TRGS 551 TRGS 906	
Chrysene	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 401 TRGS 410 TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 551 TRGS 906 TRGS 560	
Benzo[e]acephenanthrylene	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 401 TRGS 410 TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 560 TRGS 551 TRGS 906	
Benzo[k]fluoranthene	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 401 TRGS	

	410 TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 560 TRGS 551 TRGS 906	
Benzo[def]chrysene	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 401 TRGS 410 TRGS 500 TRGS 509 TRGS 510 TRGS 560 TRGS 551 TRGS 906	
Indeno[1,2,3-cd]pyrene	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 551 TRGS 906	
Dibenz[a,h]anthracene	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 401 TRGS 410 TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 560 TRGS 551 TRGS 906	
Benzo[ghi]perylene	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 500 TRGS 509 TRGS 510 TRGS 800	

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

16 Other information

Information on revision

Creation Date	2026/01/04
Revision Date	-
Reason for revision	-

Reference

- [1] IPCS: The International Chemical SafetyCards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.
- [2] IARC, website: <http://www.iarc.fr/>.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: <https://www.echemportal.org/echemportal/>.
- [4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.
- [5] NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.
- [6] EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.
- [7] U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.
- [8] Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG-CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD ₅₀	Lethal Dose 50%	NTP	National Toxicology Program
EC ₅₀	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC _x	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
P _{OW}	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor		

Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACH Regulation. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.