Safety Data Sheet

18 Mix polycyclic aromatic hydrocarbons in dichloromethane

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Report No.：BWQ9028-2016-MSDS-US
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Revision Date：-
*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)

1 Identification

Product identifier

Product Name	18 Mix polycyclic aromatic hydrocarbons in dichloromethane
Cat No.	BWQ9028-2016
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

Recommended use of the product and restrictions on use

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

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

Emergency phone number

Emergency phone number	010-58103678

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Acute Toxicity - Oral	Category 4
Sensitization - skin	Category 1
Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 1B
Reproductive Toxicity	Category 1B

Label elements

Hazard pictograms	
Signal word	Danger

Hazard statements

H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H340	May cause genetic defects
H350	May cause cancer
H360	May damage fertility and the unborn child

Precautionary statements

- Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing gas/mist/vapour/spray.
P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

- Response

P321	Specific treatment (see related instructions on the label).
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of water.
P362+P364	Take off contaminated clothing and wash it before reuse.

- Storage

P405	Store locked up.

- Disposal

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

Other hazards

	Not applicable.

Hazard description

- Physical and chemical hazards

	No information available

- Health hazards

Inhaled	Dizziness. Drowsiness. Headache. Nausea. Weakness. Unconsciousness. Death.
Ingestion	Abdominal pain. (Further see Inhalation).
Skin Contact	Dry skin. Redness. Burning sensation.
Eye	Redness. Pain. Severe deep burns.

◆ Environmental hazards

	Please refer to 12th chapter of SDS.

3 Composition/information on ingredients

Substance/mixture

	Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
Dichloromethane	75-09-2	200-838-9	98.2
Naphthalene	91-20-3	202-049-5	0.1
Acenaphthylene	208-96-8	205-917-1	0.1
Acenaphthene	83-32-9	201-469-6	0.1
Fluorene	86-73-7	201-695-5	0.1
Phenanthrene	85-01-8	201-581-5	0.1
Anthracene	120-12-7	204-371-1	0.1
Fluoranthene	206-44-0	205-912-4	0.1
Pyrene	129-00-0	204-927-3	0.1
Benz[a]anthracene	56-55-3	200-280-6	0.1
Chrysene	218-01-9	205-923-4	0.1
Benzo[e]acephenanthrylene	205-99-2	205-911-9	0.1
Benzo[k]fluoranthene	207-08-9	205-916-6	0.1
Benzo[j]fluoranthene	205-82-3	205-910-3	0.1
Benzo[e]pyrene	192-97-2	205-892-7	0.1
Benzo[def]chrysene	50-32-8	200-028-5	0.1
Dibenz[a,h]anthracene	53-70-3	200-181-8	0.1
Indeno[1,2,3-cd]pyrene	193-39-5	205-893-2	0.1
Benzo[ghi]perylene	191-24-2	205-883-8	0.1

4 First-aid measures

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.

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.

Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Small fire: dry chemical, CO_2 or alcohol-resistant foam; Large fire: alcohol-resistant foam; Fire involving tanks, rail tank cars or highway tanks: Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out.
Unsuitable extinguishing media	Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the substance or mixture

1	Will form explosive mixtures with air.
2	Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/ or vapour concentration.
3	Vapours may travel to source of ignition and flash back.
4	Liquid and vapour are flammable.
5	May emit poisonous fumes on fire.
6	Development of hazardous combustion gases or vapor possible in the event of fire.
7	May expansion or decompose explosively when heated or involved in fire.

Special protective equipment and precautions for fire-fighters

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

Personal precautions, protective equipment and emergency procedures

1	Avoid breathing vapours and contacting with skin and eye.
2	Beware of vapours accumulating to form explosive concentrations.
3	Vapours can accumulate in low areas.
4	Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
5	Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
6	Do not touch or walk through spilled material.
7	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
8	Use personal protective equipment,do not breathe gas/mist/vapour/spray.
9	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
10	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

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

Methods and materials for containment and cleaning up

1	It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and wear anti-static clothing.
2	In case of small amount of spillage, use clean non sparking tools to collect absorption materials.
3	In case of large amount of spillage, construct cofferdam or dig a hole to collect the spillage. Use foam cover to reduce evaporation. Water spray mist can reduce evaporation, but can not reduce the flammability of the leakage in the restricted space.
4	Collect absorbent material using a clean, non-sparking tool.
5	Cover with anti-solvent foam to reduce evaporation.
6	Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.
7	Water spray reduces evaporation but does not reduce the flammability of spills in confined spaces.
8	Do not touch or cross spills.
9	It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and wear anti-virus suits.
10	Spray water disperses the vapor and dilutes the liquid spill.
11	Do not touch broken containers and spills before putting on appropriate protective clothing.
12	Cut off the source of the leak as much as possible.
13	Keep leaks in a ventilated place.
14	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
15	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
16	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.
17	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7 Handling and storage

Precautions for safe handling

1	Avoid inhalation of vapors.
2	Use only non-sparking tools.
3	To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
4	Use explosion proof equipment.
5	Handling is performed in a well ventilated place.
6	Wear suitable protective equipment.
7	Avoid contact with skin and eyes.
8	Keep away from heat/sparks/open flames/ hot surfaces.

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.

8 Exposure controls/personal protection

Control parameters

◆Occupational exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
Dichloromethane	Japan - JSOH(2024–2025)	50	173	-	-
	Permissible exposure standards for workers in the workplace	50	174	75	217.5
	Australia	50	174	-	-
	Canada - Ontario	50	-	-	-
	European Union	100	353	200	706
	New Zealand	50	174	-	-
Naphthalene	Permissible exposure standards for workers in the workplace	10	52	15	78
	Australia	10	52	15	79
	Canada - Ontario	10	-	-	-
	New Zealand	0.5	2.6	2	10
	USA - ACGIH	10	-	-	-
	USA - NIOSH	10	50	15	75
Chrysene	USA - OSHA	-	0.2	-	-
Benzo[def]chrysene	USA - OSHA	-	0.2	-	-
	Austria	-	0.002	-	0.008
	Canada - Québec	-	0.005	-	-
	Finland	-	0.01	-	-
	Germany (AGS)	-	0.0007	-	0.0056
	Hungary	-	0.002	-	-
Dibenz[a,h]anthracene	Poland	-	0.004	-	-

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.

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.

9 Physical and chemical properties and safety characteristics

Physical and chemical properties

Appearance (physical state, color, etc.)	Colorless to light yellow 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[%(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

10 Stability and reactivity

Stability and reactivity

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

11 Toxicological information

Acute toxicity

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

Carcinogenicity

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

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

Others

18 Mix polycyclic aromatic hydrocarbons 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	May cause an allergic skin reaction(Category 1)
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	May damage fertility and the unborn child(Category 1B)
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)

12 Ecological information

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Benzo[e]pyrene	No information available	EC_{50}：0.000877mg/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)
Anthracene	LC_{50}：>0.030mg/L (96h)(Fish)	EC_{50}：>0.031mg/L (48h)(Crustaceans)	ErC_{50}：>0.031mg/L (72h)(Algae)
Naphthalene	LC_{50}：0.9mg/L (96h)(Fish)	EC_{50}：3.6mg/L (48h)(Crustaceans)	No information available
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)
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)
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)
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 (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)
Benzo[j]fluoranthene	LC_{50}：>0.0042mg/L (96h)(Fish)	EC_{50}：0.0023mg/L (48h)(Crustaceans)	ErC_{50}：>0.00026mg/L (72h)(Algae)
Benzo[ghi]perylene	No information available	EC_{50}：0.000587mg/L (48h)(Crustaceans)	No information available
Dichloromethane	LC_{50}：193mg/L (96h)(Fish)	EC_{50}：1470mg/L (48h)(Crustaceans)	No information available
Benzo[def]chrysene	No information available	EC_{50}：0.0013mg/L (48h)(Crustaceans)	No information available

Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Pyrene	No information available	NOEC：0.020mg/L(Crustaceans)	NOEC：1.4mg/L(Algae)
Anthracene	No information available	NOEC：	NOEC：0.031mg/L(Algae)

		0.016mg/L(Crustaceans)	
Benzo[j]fluoranthene	No information available	NOEC：>0.0027mg/L(Crustaceans)	NOEC：0.00015mg/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)
Phenanthrene	NOEC：0.19mg/L(Fish)	NOEC：0.031mg/L(Crustaceans)	NOEC：0.092mg/L(Algae)
Dibenz[a,h]anthracene	No information available	NOEC：>0.016mg/L(Crustaceans)	NOEC：0.00033mg/L(Algae)
Acenaphthene	No information available	NOEC：0.084mg/L(Crustaceans)	NOEC：0.09mg/L(Algae)

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[e]pyrene	High	High
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)

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[e]pyrene	Low	Log Kow=7.2168
Benzo[def]chrysene	High	Log Kow=6.04
Dibenz[a,h]anthracene	High	Log Kow=6.5

Mobility in soil

Component	log Koc	Remark
Dichloromethane	1.67	20 ℃
Naphthalene	2.58	20 ℃
Acenaphthene	3.787	
Fluorene	4.053	
Phenanthrene	4.319	
Anthracene	4.46	25 ℃
Fluoranthene	4.850	
Pyrene	4.841	
Benz[a]anthracene	5.364	
Benzo[e]pyrene	5.905	
Benzo[def]chrysene	5.896	
Dibenz[a,h]anthracene	6.419	

13 Disposal considerations

Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and 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	

IMDG-CODE

UN number	1992
UN proper shipping name	FLAMMABLE LIQUID, TOXIC, N.O.S.
Transport hazard class	3
Transport subsidiary hazard class	6.1
Packing group	Ⅲ
Marine pollutant (Yes or no)	No

IATA-DGR

UN number	1992

UN proper shipping name	FLAMMABLE LIQUID, TOXIC, N.O.S.
Transport hazard class	3
Transport subsidiary hazard class	6.1
Packing group	Ⅲ

UN-ADR

UN number	1992
UN proper shipping name	FLAMMABLE LIQUID, TOXIC, N.O.S.
Transport hazard class	3
Transport subsidiary hazard class	6.1
Packing group	Ⅲ

Transport in bulk according to IMO instruments

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

Not Available

◆Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Not Available

◆Transport in bulk in accordance with the IGC Code

Not Available

Others

Precautions for transport	Transit should be anti-exposure, rain, high temperature. Strictly prohibited shipping or transportation with acids, alkalis, oxidants, food and food additives etc. Shipment of the goods vehicle exhaust pipe must be equipped with fire retardant devices, prohibit using mechanical equipment and tools of which easy to produce sparks. Transit should be anti-exposure, anti-rain, anti-high temperature. Transportation used tank (tank) cars should be grounded chain, tank can be installed to reduce the partition hole static electricity shocks. Strictly prohibited shipping or transportation with oxidants, acids, food and food additives etc. When bulk transport, Prohibit the use of cement or wooden boats. 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.

15 Regulatory information

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[j]fluoranthene	×	√	×	×	×	×	×	×	×	×	×	√	√
Benzo[e]pyrene	√	√	×	×	×	×	×	×	×	×	√	√	√
Benzo[def]chrysene	√	√	√	√	√	√	√	×	×	√	√	√	√
Dibenz[a,h]anthracene	√	√	√	×	√	×	×	×	×	×	√	√	√
Indeno[1,2,3-cd]pyrene	×	√	√	×	√	×	×	×	×	×	√	√	√
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	×	×	×
Acenaphthene	×	×	×
Fluorene	×	×	×
Phenanthrene	×	×	×
Anthracene	×	×	×
Fluoranthene	×	×	×
Pyrene	×	×	×
Benz[a]anthracene	×	×	×
Chrysene	×	×	×
Benzo[e]acephenanthrylene	×	×	×

Benzo[k]fluoranthene	×	×	×
Benzo[j]fluoranthene	×	×	×
Benzo[e]pyrene	×	×	×
Benzo[def]chrysene	×	×	×
Dibenz[a,h]anthracene	×	×	×
Indeno[1,2,3-cd]pyrene	×	×	×
Benzo[ghi]perylene	×	×	×

【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

US chemical inventory

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

[A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
[B] US SARA 302- Extremely Hazardous Substance List
[C] US CERCLA- Hazardous Substances List
[D] US Massachusetts Right-to-Know Substance List
[E] US New Jersey Right to Know Hazardous Substance List
[F] US Pennsylvania Right to Know Hazardous Substance List
[G] US New York City Right-to-Know Hazardous Substance List
[H] US California Proposition 65 List

Note:

"√" Indicates that the substance included in the regulations.
"×" No data or not included in the regulations.

16 Other information

Information on revision

Creation Date	2025/11/10
Revision Date	-
Reason for revision	-

Reference

[1] IPCS: The International Chemical Safety Cards (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	HCS	Hazard Communication Standard

Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. 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.