MA EPH Aromatics Mix

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 01/13/2020 Revision date: 01/13/2020 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : MA EPH Aromatics Mix

Product code : AL0-101791

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Certified reference material for laboratory use only

1.3. Supplier

Phenova
6390 Joyce Dr. Suite 100
Golden, CO 80403 - United States
T 1-866-942-2978 - F 1-866-283-0269
info@phenova.com - www.phenova.com

1.4. Emergency telephone number

Emergency number : ChemTel Assistance (US/Canada) 1-800-255-3924
ChemTel Assistance (International) +1 813-248-0585

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Germ cell mutagenicity Category 1B	H340	May cause genetic defects
Carcinogenicity Category 1B	H350	May cause cancer

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :

Signal word (GHS US) : Danger

Hazard statements (GHS US) : H317 - May cause an allergic skin reaction
H340 - May cause genetic defects
H350 - May cause cancer

Precautionary statements (GHS US) : P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - If on skin: Wash with plenty of water
P308+P313 - If exposed or concerned: Get medical advice/attention.
P403+P235 - Store in a well-ventilated place. Keep cool.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use media other than water to extinguish.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	Conc.
Methylene Chloride (Component)	(CAS-No.) 75-09-2	96.6
benzo[a]anthracene (Component)	(CAS-No.) 56-55-3	0.2
benzo[a]pyrene (Component)	(CAS-No.) 50-32-8	0.2
Benzo(b)fluoranthene (Component)	(CAS-No.) 205-99-2	0.2
benzo[k]fluoranthene (Component)	(CAS-No.) 207-08-9	0.2
chrysene (Component)	(CAS-No.) 218-01-9	0.2
dibenz(a,h)anthracene (Component)	(CAS-No.) 53-70-3	0.2
naphthalene (Component)	(CAS-No.) 91-20-3	0.2
indeno(1,2,3-cd)pyrene (Component)	(CAS-No.) 193-39-5	0.2

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms : Harmful in contact with skin.

Symptoms/effects after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up in absorbent material. Collect spillage.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so.

Hygiene measures : Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.

Incompatible materials : Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

MA EPH Aromatics Mix		
ACGIH	Local name	Dichloromethane
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	Remark (ACGIH)	COHb-emia; CNS impair
ACGIH	Regulatory reference	ACGIH 2018
OSHA	Remark (OSHA)	(2) See Table Z-2.
OSHA	Regulatory reference (US-OSHA)	OSHA

benzo[a]anthracene (56-55-3)
Not applicable

benzo[a]pyrene (50-32-8)
Not applicable

Benzo(b)fluoranthene (205-99-2)
Not applicable

benzo[k]fluoranthene (207-08-9)
Not applicable

chrysene (218-01-9)
Not applicable

dibenz(a,h)anthracene (53-70-3)
Not applicable

indeno(1,2,3-cd)pyrene (193-39-5)
Not applicable

naphthalene (91-20-3)		
ACGIH	Local name	Naphthalene
ACGIH	ACGIH TWA (ppm)	10 ppm (Naphthalene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	Hematologic eff; URT & eye irr; Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure)
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	50 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	10 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA

Methylene Chloride (75-09-2)		
ACGIH	Local name	Dichloromethane
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	Remark (ACGIH)	COHb-emia; CNS impair
ACGIH	Regulatory reference	ACGIH 2018
OSHA	Remark (OSHA)	(2) See Table Z-2.
OSHA	Regulatory reference (US-OSHA)	OSHA

8.2. Appropriate engineering controls

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

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety glasses.

Hand protection:

Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration

Eye protection:

Chemical goggles or safety glasses. Safety glasses

Skin and body protection:

Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact

Respiratory protection:

Wear appropriate mask

Personal protective equipment symbol(s):

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
	:	Colorless
	:	characteristic
Odor threshold	:	No data available
pH	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	Non flammable.
Vapor pressure	:	No data available
Relative vapor density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	No data available
Log Pow	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

naphthalene (91-20-3)	
LD50 oral rat	> 1100 mg/kg (Rat)
LD50 dermal rat	> 2500 mg/kg (Rat)
LD50 dermal rabbit	> 20000 mg/kg (Rabbit)
ATE US (oral)	500 mg/kg body weight

Methylene Chloride (75-09-2)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral)
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity : May cause cancer.

benzo[a]anthracene (56-55-3)	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen

benzo[a]pyrene (50-32-8)	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen

Benzo(b)fluoranthene (205-99-2)	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen

benzo[k]fluoranthene (207-08-9)	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen

dibenz(a,h)anthracene (53-70-3)	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen

indeno(1,2,3-cd)pyrene (193-39-5)	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen

naphthalene (91-20-3)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen

Methylene Chloride (75-09-2)	
IARC group	2A - Probably carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen

Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Harmful in contact with skin.

Symptoms/effects after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

benzo[a]anthracene (56-55-3)	
LC50 fish 1	0.0018 mg/l (65 h, Pimephales promelas, Lethal)
EC50 Daphnia 1	0.01 mg/l (96 h, Daphnia pulex, Static system)

benzo[a]pyrene (50-32-8)	
LC50 fish 1	0.0056 mg/l (38 h, Pimephales promelas, Lethal)

naphthalene (91-20-3)	
EC50 Daphnia 1	2.16 mg/l (EC50; 48 h; Daphnia magna)
LC50 fish 2	0.11 mg/l (LC50; 96 h; Oncorhynchus mykiss)
Threshold limit algae 1	0.4 mg/l (EC50; 72 h; Skeletonema costatum)

Methylene Chloride (75-09-2)	
LC50 fish 1	193 mg/l (96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
EC50 Daphnia 1	168.2 mg/l (48 h, Daphnia magna)

12.2. Persistence and degradability

MA EPH Aromatics Mix	
Persistence and degradability	May cause long-term adverse effects in the environment.

benzo[a]anthracene (56-55-3)	
Persistence and degradability	Biodegradability in soil: no data available. Inhibits biodegradation processes in the soil. Not readily biodegradable in water.
ThOD	2.95 g O_2/g substance

benzo[a]pyrene (50-32-8)	
Persistence and degradability	Biodegradable in the soil. Not readily biodegradable in water.
Chemical oxygen demand (COD)	2.92 g O_2/g substance
ThOD	2.92 g O_2/g substance

Benzo(b)fluoranthene (205-99-2)	
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water.
ThOD	2.92 g O_2/g substance

benzo[k]fluoranthene (207-08-9)	
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water.
ThOD	2.92 g O_2/g substance

chrysene (218-01-9)	
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water.

dibenz(a,h)anthracene (53-70-3)	
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water.

indeno(1,2,3-cd)pyrene (193-39-5)	
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water.
ThOD	2.9 g O_2/g substance

naphthalene (91-20-3)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	0 g O_2/g substance
Chemical oxygen demand (COD)	0.22 g O_2/g substance
ThOD	2.99 g O_2/g substance

Methylene Chloride (75-09-2)	
Persistence and degradability	Biodegradable in the soil. Not readily biodegradable in water.

12.3. Bioaccumulative potential

MA EPH Aromatics Mix	
Bioaccumulative potential	Not established.

benzo[a]anthracene (56-55-3)	
BCF fish 1	350 (72 h, Leuciscus idus)
BCF other aquatic organisms 1	1106 (24 h, Daphnia pulex)
BCF other aquatic organisms 2	18000 (192 h, Crassostrea sp.)
Log Pow	5.61 - 5.79
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).

benzo[a]pyrene (50-32-8)	
BCF fish 1	480 (72 h, Leuciscus idus)
BCF fish 2	70.7 (168 h, Salmo salar, Eggs)
BCF other aquatic organisms 1	3000 (192 h, Crassostrea sp.)
BCF other aquatic organisms 2	1.5 (24 h, Daphnia magna)
Log Pow	5.97 - 6.06
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).

Benzo(b)fluoranthene (205-99-2)	
BCF other aquatic organisms 1	2800 (168 h, Lamellibranchiata)
Log Pow	6.57
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).

benzo[k]fluoranthene (207-08-9)	
BCF fish 1	8750 (Pisces, QSAR)
BCF other aquatic organisms 1	0.0013 mg/kg (Algae, Dry weight)
BCF other aquatic organisms 2	37000 (Mytilus edulis)
Log Pow	6.84
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).

chrysene (218-01-9)	
BCF other aquatic organisms 1	4440 (180 day(s), Lamellibranchiata, Literature study, Chronic)
Log Pow	5.81 - 5.86 (Experimental value)
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).

dibenz(a,h)anthracene (53-70-3)	
Log Pow	5.97 - 6.84

indeno(1,2,3-cd)pyrene (193-39-5)	
BCF other aquatic organisms 1	10000 (240 h, Amphipoda)
Log Pow	6.6 - 7.7
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).

naphthalene (91-20-3)	
BCF fish 1	23 - 168 (BCF; 8 weeks; Cyprinus carpio)
Log Pow	3.3 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

Methylene Chloride (75-09-2)	
BCF fish 1	2 - 40 (OECD 305: Bioconcentration: Flow-Through Fish Test, 6 week(s), Cyprinus carpio, Semi-static system, Fresh water, Experimental value, GLP)
Log Pow	1.25 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

benzo[a]anthracene (56-55-3)	
Ecology - soil	Adsorbs into the soil.

benzo[a]pyrene (50-32-8)	
Ecology - soil	Adsorbs into the soil.

Benzo(b)fluoranthene (205-99-2)	
Ecology - soil	Adsorbs into the soil.

benzo[k]fluoranthene (207-08-9)	
Ecology - soil	Adsorbs into the soil.

chrysene (218-01-9)	
Ecology - soil	Adsorbs into the soil.

dibenz(a,h)anthracene (53-70-3)	
Ecology - soil	Adsorbs into the soil.

indeno(1,2,3-cd)pyrene (193-39-5)	
Ecology - soil	Adsorbs into the soil.

naphthalene (91-20-3)	
Surface tension	0.03 N/m (100 °C)

Methylene Chloride (75-09-2)	
Surface tension	0.028 N/m (20 °C)
Ecology - soil	Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation.

12.5. Other adverse effects

MA EPH Aromatics Mix

benzo[a]anthracene (56-55-3)

benzo[a]pyrene (50-32-8)

Benzo(b)fluoranthene (205-99-2)

benzo[k]fluoranthene (207-08-9)

chrysene (218-01-9)

dibenz(a,h)anthracene (53-70-3)

indeno(1,2,3-cd)pyrene (193-39-5)

naphthalene (91-20-3)

Methylene Chloride (75-09-2)

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN2810 Toxic, liquids, organic, n.o.s. (dichloromethane ; benzo[a]anthracene ; benzo[a]pyrene ; benzo[e]acephenanthrylene ; benzo[k]fluoranthene ; chrysene ; dibenz(a,h)anthracene ; naphthalene ; indeno(1,2,3-cd)pyrene), 6.1, III

UN-No.(DOT) : UN2810

Proper Shipping Name (DOT) : Toxic, liquids, organic, n.o.s.

dichloromethane ; benzo[a]anthracene ; benzo[a]pyrene ; benzo[e]acephenanthrylene ; benzo[k]fluoranthene ; chrysene ; dibenz(a,h)anthracene ; naphthalene ; indeno(1,2,3-cd)pyrene

Class (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

Packing group (DOT) : III - Minor Danger

Hazard labels (DOT)	:	6.1 - Poison

DOT Packaging Non Bulk (49 CFR 173.xxx)	:	203
DOT Packaging Bulk (49 CFR 173.xxx)	:	241
DOT Symbols	:	G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	:	IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	:	153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	220 L
DOT Vessel Stowage Location	:	A - The material may be stowed ‘‘on deck’’ or ‘‘under deck’’ on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	:	40 - Stow ‘‘clear of living quarters’’
Emergency Response Guide (ERG) Number	:	153
Other information	:	No supplementary information available.

Transportation of Dangerous Goods

Not applicable

Transport by sea

Transport document description (IMDG)	:	UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (dichloromethane ; benzo[a]anthracene ; benzo[a]pyrene ; benzo[e]acephenanthrylene ; benzo[k]fluoranthene ; chrysene ; dibenz(a,h)anthracene ; naphthalene ; indeno(1,2,3-cd)pyrene), 6.1, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
UN-No. (IMDG)	:	2810
Proper Shipping Name (IMDG)	:	TOXIC LIQUID, ORGANIC, N.O.S.
Class (IMDG)	:	6.1 - Toxic substances
Packing group (IMDG)	:	III - substances presenting low danger

Air transport

Transport document description (IATA)	:	UN 2810 Toxic liquid, organic, n.o.s. (dichloromethane ; benzo[a]anthracene ; benzo[a]pyrene ; benzo[e]acephenanthrylene ; benzo[k]fluoranthene ; chrysene ; dibenz(a,h)anthracene ; naphthalene ; indeno(1,2,3-cd)pyrene), 6.1, III, ENVIRONMENTALLY HAZARDOUS
UN-No. (IATA)	:	2810
Proper Shipping Name (IATA)	:	Toxic liquid, organic, n.o.s.
Class (IATA)	:	6.1 - Toxic Substances
Packing group (IATA)	:	III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

benzo[a]anthracene (56-55-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	10 lb

benzo[a]pyrene (50-32-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	1 lb

Benzo(b)fluoranthene (205-99-2)	
Not listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	1 lb

benzo[k]fluoranthene (207-08-9)	
Not listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	5000 lb

chrysene (218-01-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	100 lb

dibenz(a,h)anthracene (53-70-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	1 lb

indeno(1,2,3-cd)pyrene (193-39-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	100 lb

naphthalene (91-20-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	100 lb

Methylene Chloride (75-09-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
Listed on EPA Hazardous Air Pollutant (HAPS)	
EPA TSCA Regulatory Flag	R - R - indicates a substance that is the subject of a TSCA section 6 risk management rule.
CERCLA RQ	1000 lb

15.2. International regulations

CANADA

benzo[a]anthracene (56-55-3)
Listed on the Canadian NDSL (Non-Domestic Substances List)

benzo[a]pyrene (50-32-8)
Listed on the Canadian DSL (Domestic Substances List)

Benzo(b)fluoranthene (205-99-2)
Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

benzo[k]fluoranthene (207-08-9)
Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

chrysene (218-01-9)
Listed on the Canadian DSL (Domestic Substances List)

dibenz(a,h)anthracene (53-70-3)
Listed on the Canadian NDSL (Non-Domestic Substances List)

indeno(1,2,3-cd)pyrene (193-39-5)
Listed on the Canadian NDSL (Non-Domestic Substances List)

naphthalene (91-20-3)
Listed on the Canadian DSL (Domestic Substances List)

Methylene Chloride (75-09-2)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations
No additional information available

National regulations

benzo[a]anthracene (56-55-3)
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)

benzo[a]pyrene (50-32-8)
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)

Benzo(b)fluoranthene (205-99-2)
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)

benzo[k]fluoranthene (207-08-9)
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)

chrysene (218-01-9)
Listed on IARC (International Agency for Research on Cancer)

dibenz(a,h)anthracene (53-70-3)
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)

indeno(1,2,3-cd)pyrene (193-39-5)
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)

naphthalene (91-20-3)
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program) Listed on EPA Hazardous Air Pollutant (HAPS)

Methylene Chloride (75-09-2)
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program) Listed on EPA Hazardous Air Pollutant (HAPS)

15.3. US State regulations

benzo[a]anthracene (56-55-3)					
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	0.033 µg/day	

benzo[a]pyrene (50-32-8)					
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	0.06 µg/day	

Benzo(b)fluoranthene (205-99-2)					
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	0.096 µg/day	

benzo[k]fluoranthene (207-08-9)					
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		

chrysene (218-01-9)					
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	0.35 µg/day	

dibenz(a,h)anthracene (53-70-3)					
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	0.2 µg/day	

indeno(1,2,3-cd)pyrene (193-39-5)					
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		

naphthalene (91-20-3)					
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	5.8 µg/day	

Methylene Chloride (75-09-2)					
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	50 µg/day	

SECTION 16: Other information

Revision date : 01/13/2020

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H-phrases:

H317	May cause an allergic skin reaction
H340	May cause genetic defects
H350	May cause cancer

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