

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : 8270 Cal Mix B
 Product code : AL0-130746

1.2. Recommended use and restrictions on use

No additional information available

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

Flammable liquids Category 3	H226	Flammable liquid and vapour
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) :

H226 - Flammable liquid and vapour
 H317 - May cause an allergic skin reaction
 H340 - May cause genetic defects
 H350 - May cause cancer

Precautionary statements (GHS-US) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 - Keep container tightly closed.
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
 P272 - Contaminated work clothing must not be allowed out of the workplace
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 - If on skin: Wash with plenty of water
 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
 P308+P313 - If exposed or concerned: Get medical advice/attention.
 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.
 P403+P235 - Store in a well-ventilated place. Keep cool.
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

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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	93.5
4,6-Dinitro-2-methylphenol (Component)	(CAS-No.) 534-52-1	0.2
4-chloro-3-methylphenol (Component)	(CAS-No.) 59-50-7	0.2
2,3,4,5,6-pentachlorophenol (Component)	(CAS-No.) 87-86-5	0.2
benzo[a]anthracene (Component)	(CAS-No.) 56-55-3	0.1
bis(2-chloroethyl) ether (Component)	(CAS-No.) 111-44-4	0.1
Benzo(b)fluoranthene (Component)	(CAS-No.) 205-99-2	0.1
benzo[k]fluoranthene (Component)	(CAS-No.) 207-08-9	0.1
benzo[a]pyrene (Component)	(CAS-No.) 50-32-8	0.1
chrysene (Component)	(CAS-No.) 218-01-9	0.1
dibenz(a,h)anthracene (Component)	(CAS-No.) 53-70-3	0.1
naphthalene (Component)	(CAS-No.) 91-20-3	0.1
indeno(1,2,3-cd)pyrene (Component)	(CAS-No.) 193-39-5	0.1
2,4,6-trichlorophenol (Component)	(CAS-No.) 88-06-2	0.1

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 you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow victim 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.
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	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

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	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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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.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

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.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8270 Cal Mix B		
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

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bis(2-chloroethyl) ether (111-44-4)		
ACGIH	Local name	Dichloroethyl ether
ACGIH	ACGIH TWA (ppm)	5 ppm
ACGIH	ACGIH STEL (ppm)	10 ppm
ACGIH	Remark (ACGIH)	URT & eye irr; nausea
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (Ceiling) (mg/m ³)	90 mg/m ³
OSHA	OSHA PEL (Ceiling) (ppm)	15 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
4-chloro-3-methylphenol (59-50-7)		
Not applicable		
chrysene (218-01-9)		
Not applicable		
dibenz(a,h)anthracene (53-70-3)		
Not applicable		
4,6-Dinitro-2-methylphenol (534-52-1)		
ACGIH	Local name	Dinitro-o-cresol
ACGIH	ACGIH TWA (mg/m ³)	0.2 mg/m ³
ACGIH	Remark (ACGIH)	Basal metab
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m ³)	0.2 mg/m ³
OSHA	Regulatory reference (US-OSHA)	OSHA
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/m ³)	50 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	10 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
2,3,4,5,6-pentachlorophenol (87-86-5)		
ACGIH	Local name	Pentachlorophenol
ACGIH	ACGIH TWA (mg/m ³)	0.5 mg/m ³ (Inhalable fraction and vapor)
ACGIH	ACGIH STEL (mg/m ³)	1 mg/m ³ (Inhalable fraction and vapor)

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2,3,4,5,6-pentachlorophenol (87-86-5)		
ACGIH	Remark (ACGIH)	URT & eye irr; CNS & card impair; 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); BEI
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m ³)	0.5 mg/m ³
OSHA	Regulatory reference (US-OSHA)	OSHA
2,4,6-trichlorophenol (88-06-2)		
Not applicable		
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

No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
	: Colorless
	: characteristic
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available

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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

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

bis(2-chloroethyl) ether (111-44-4)	
LD50 oral rat	75 mg/kg body weight (Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	9 mg/kg body weight (24 h, Rabbit, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	0.33 mg/l (4 h, Rat, Experimental value, Inhalation (mist))
ATE US (oral)	5 mg/kg body weight
ATE US (dermal)	9 mg/kg body weight
ATE US (gases)	100 ppmV/4h
ATE US (vapors)	0.33 mg/l/4h
ATE US (dust, mist)	0.33 mg/l/4h
4-chloro-3-methylphenol (59-50-7)	
LD50 oral rat	1830 mg/kg body weight (Rat, Male, Experimental value, Oral)
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
ATE US (oral)	1830 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight

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4,6-Dinitro-2-methylphenol (534-52-1)	
LD50 oral rat	7 - 40 mg/kg (Rat, Oral)
ATE US (oral)	7 mg/kg body weight
ATE US (dermal)	5 mg/kg body weight
ATE US (gases)	100 ppmV/4h
ATE US (vapors)	0.5 mg/l/4h
ATE US (dust, mist)	0.05 mg/l/4h

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

2,3,4,5,6-pentachlorophenol (87-86-5)	
LC50 inhalation rat (mg/l)	355 mg/m ³ (Rat, Literature, Inhalation)
ATE US (oral)	100 mg/kg body weight
ATE US (dermal)	300 mg/kg body weight
ATE US (gases)	100 ppmV/4h
ATE US (vapors)	0.5 mg/l/4h
ATE US (dust, mist)	0.05 mg/l/4h

2,4,6-trichlorophenol (88-06-2)	
LD50 oral rat	820 mg/kg (Rat, Literature study, Oral)
ATE US (oral)	820 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

bis(2-chloroethyl) ether (111-44-4)	
IARC group	3 - Not classifiable

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

2,3,4,5,6-pentachlorophenol (87-86-5)	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen

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2,4,6-trichlorophenol (88-06-2)	
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

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 12: Ecological information

12.1. Toxicity

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)

bis(2-chloroethyl) ether (111-44-4)	
LC50 fish 1	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oryzias latipes, Semi-static system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	414 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, GLP)
ErC50 (algae)	> 79.44 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

4-chloro-3-methylphenol (59-50-7)	
LC50 fish 1	3.71 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Poecilia reticulata, Semi-static system, Fresh water, Experimental value)
EC50 Daphnia 1	1.5 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)

4,6-Dinitro-2-methylphenol (534-52-1)	
LC50 fish 1	0.066 mg/l (96 h, Salmo gairdneri, Literature study)
EC50 Daphnia 1	0.145 mg/l (48 h, Daphnia magna, Literature study)

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)

2,3,4,5,6-pentachlorophenol (87-86-5)	
LC50 fish 1	0.052 mg/l (96 h, Salmo gairdneri)
EC50 Daphnia 1	0.01 - 0.36 mg/l (48 h, Daphnia magna)

2,4,6-trichlorophenol (88-06-2)	
LC50 fish 1	0.73 mg/l (96 h, Salmo gairdneri, Literature study)
EC50 Daphnia 1	0.69 mg/l (48 h, Daphnia magna, Literature study)

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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

8270 Cal Mix B	
Persistence and degradability	Not established.

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

bis(2-chloroethyl) ether (111-44-4)	
Persistence and degradability	Not readily biodegradable in water.

4-chloro-3-methylphenol (59-50-7)	
Persistence and degradability	Biodegradable in the soil. Not readily biodegradable in water. Inherently biodegradable.
Chemical oxygen demand (COD)	1.5 - 1.8 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.

4,6-Dinitro-2-methylphenol (534-52-1)	
Persistence and degradability	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

2,3,4,5,6-pentachlorophenol (87-86-5)	
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water.

2,4,6-trichlorophenol (88-06-2)	
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.

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

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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
benzo[a]anthracene (56-55-3)	
BCF fish 1	350 (72 h, <i>Leuciscus idus</i>)
BCF other aquatic organisms 1	1106 (24 h, <i>Daphnia pulex</i>)
BCF other aquatic organisms 2	18000 (192 h, <i>Crassostrea</i> 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, <i>Leuciscus idus</i>)
BCF fish 2	70.7 (168 h, <i>Salmo salar</i> , Eggs)
BCF other aquatic organisms 1	3000 (192 h, <i>Crassostrea</i> sp.)
BCF other aquatic organisms 2	1.5 (24 h, <i>Daphnia magna</i>)
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, <i>Lamellibranchiata</i>)
Log Pow	6.57
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
benzo[k]fluoranthene (207-08-9)	
BCF fish 1	8750 (<i>Pisces</i> , QSAR)
BCF other aquatic organisms 1	0.0013 mg/kg (<i>Algae</i> , Dry weight)
BCF other aquatic organisms 2	37000 (<i>Mytilus edulis</i>)
Log Pow	6.84
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
bis(2-chloroethyl) ether (111-44-4)	
BCF fish 1	11 l/kg (Equivalent or similar to OECD 305, 14 day(s), <i>Lepomis macrochirus</i> , Semi-static system, Fresh water, Experimental value)
Log Pow	1.12 (Experimental value, Equivalent or similar to OECD 107, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
4-chloro-3-methylphenol (59-50-7)	
BCF fish 1	5.5 - 13 (<i>Cyprinus carpio</i> , Test duration: 6 weeks)
Log Pow	2.78 - 3.10
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
chrysene (218-01-9)	
BCF other aquatic organisms 1	4440 (180 day(s), <i>Lamellibranchiata</i> , 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
4,6-Dinitro-2-methylphenol (534-52-1)	
BCF fish 1	0.3 - 2.9 (6 week(s), <i>Cyprinus carpio</i> , Literature study)
Log Pow	2.12 - 3.1 (Literature study)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
indeno(1,2,3-cd)pyrene (193-39-5)	
BCF other aquatic organisms 1	10000 (240 h, <i>Amphipoda</i>)
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; <i>Cyprinus carpio</i>)
Log Pow	3.3 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

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2,3,4,5,6-pentachlorophenol (87-86-5)	
BCF fish 1	770 (768 h, Pimephales promelas)
BCF fish 2	39 - 224 (Cyprinus carpio, Test duration: 8 weeks)
BCF other aquatic organisms 1	1250 (Algae)
Log Pow	4.07 - 5.19
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
2,4,6-trichlorophenol (88-06-2)	
BCF fish 1	12130 (36 day(s), Poecilia reticulata, Literature study)
Log Pow	3.4 - 4.05 (Literature)
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
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.
bis(2-chloroethyl) ether (111-44-4)	
Surface tension	0.038 N/m (19 °C)
Log Koc	1.88 (log Koc, Experimental value)
Ecology - soil	Highly mobile in soil.
4-chloro-3-methylphenol (59-50-7)	
Surface tension	Not applicable (solid)
Log Koc	2.69 (log Koc)
Ecology - soil	Low potential for adsorption in soil.
chrysene (218-01-9)	
Ecology - soil	Adsorbs into the soil.
dibenz(a,h)anthracene (53-70-3)	
Ecology - soil	Adsorbs into the soil.
4,6-Dinitro-2-methylphenol (534-52-1)	
Ecology - soil	No (test)data on mobility of the substance available.
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)
2,3,4,5,6-pentachlorophenol (87-86-5)	
Ecology - soil	No (test)data on mobility of the substance available.
2,4,6-trichlorophenol (88-06-2)	
Ecology - soil	No (test)data on mobility of the substance available.
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.

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12.5. Other adverse effects

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benzo[a]anthracene (56-55-3)	
benzo[a]pyrene (50-32-8)	
Benzo(b)fluoranthene (205-99-2)	
benzo[k]fluoranthene (207-08-9)	
bis(2-chloroethyl) ether (111-44-4)	
4-chloro-3-methylphenol (59-50-7)	
chrysene (218-01-9)	
dibenz(a,h)anthracene (53-70-3)	
4,6-Dinitro-2-methylphenol (534-52-1)	
indeno(1,2,3-cd)pyrene (193-39-5)	
naphthalene (91-20-3)	
2,3,4,5,6-pentachlorophenol (87-86-5)	
2,4,6-trichlorophenol (88-06-2)	
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 ; 4,6-dinitro-o-cresol ; 4-chloro-3-methylphenol ; 2,3,4,5,6-pentachlorophenol ; benzo[a]anthracene ; benzo[e]acephenanthrylene ; benzo[k]fluoranthene ; benzo[a]pyrene ; chrysene ; dibenz(a,h)anthracene ; naphthalene ; indeno(1,2,3-cd)pyrene ; 2,4,6-trichlorophenol), 6.1, III

UN-No.(DOT) : UN2810

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Proper Shipping Name (DOT)	: Toxic, liquids, organic, n.o.s. dichloromethane ; 4,6-dinitro-o-cresol ; 4-chloro-3-methylphenol ; 2,3,4,5,6-pentachlorophenol ; benzo[a]anthracene ; benzo[e]acephenanthrylene ; benzo[k]fluoranthene ; benzo[a]pyrene ; chrysene ; dibenz(a,h)anthracene ; naphthalene ; indeno(1,2,3-cd)pyrene ; 2,4,6-trichlorophenol
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 ; 4,6-dinitro-o-cresol ; 4-chloro-3-methylphenol ; 2,3,4,5,6-pentachlorophenol ; benzo[a]anthracene ; benzo[e]acephenanthrylene ; benzo[k]fluoranthene ; benzo[a]pyrene ; chrysene ; dibenz(a,h)anthracene ; naphthalene ; indeno(1,2,3-cd)pyrene ; 2,4,6-trichlorophenol), 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 ; 4,6-dinitro-o-cresol ; 4-chloro-3-methylphenol ; 2,3,4,5,6-pentachlorophenol ; benzo[a]anthracene ; benzo[e]acephenanthrylene ; benzo[k]fluoranthene ; benzo[a]pyrene ; chrysene ; dibenz(a,h)anthracene ; naphthalene ; indeno(1,2,3-cd)pyrene ; 2,4,6-trichlorophenol), 6.1, III, ENVIRONMENTALLY HAZARDOUS
UN-No. (IATA)	: 2810

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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
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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
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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
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bis(2-chloroethyl) ether (111-44-4)

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	T - T - indicates a substance that is the subject of a final TSCA section 4 test rule.
--------------------------	--

CERCLA RQ	10 lb
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RQ (Reportable quantity, section 304 of EPA's List of Lists)	10 lb
--	-------

SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb
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4-chloro-3-methylphenol (59-50-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Not subject to reporting requirements of the United States SARA Section 313

CERCLA RQ	5000 lb
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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
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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
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4,6-Dinitro-2-methylphenol (534-52-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313
Not subject to reporting requirements of the United States SARA Section 313

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	10 lb
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RQ (Reportable quantity, section 304 of EPA's List of Lists)	10 lb
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SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb 10lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form
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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
2,3,4,5,6-pentachlorophenol (87-86-5)	
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	10 lb
2,4,6-trichlorophenol (88-06-2)	
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)	
CERCLA RQ	10 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)	
bis(2-chloroethyl) ether (111-44-4)	
Listed on the Canadian DSL (Domestic Substances List)	
4-chloro-3-methylphenol (59-50-7)	
Listed on the Canadian DSL (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)	
4,6-Dinitro-2-methylphenol (534-52-1)	
Listed on the Canadian DSL (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)	
2,3,4,5,6-pentachlorophenol (87-86-5)	
Listed on the Canadian DSL (Domestic Substances List)	

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2,4,6-trichlorophenol (88-06-2)

Listed on the Canadian NDSL (Non-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)

bis(2-chloroethyl) ether (111-44-4)

Listed on EPA Hazardous Air Pollutant (HAPS)

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)

4,6-Dinitro-2-methylphenol (534-52-1)

Listed on EPA Hazardous Air Pollutant (HAPS)

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)

2,3,4,5,6-pentachlorophenol (87-86-5)

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

2,4,6-trichlorophenol (88-06-2)

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

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

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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		
bis(2-chloroethyl) ether (111-44-4)					
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	0.3 µg/day	
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		

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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	
2,3,4,5,6-pentachlorophenol (87-86-5)					
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	40 µg/day	
2,4,6-trichlorophenol (88-06-2)					
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	10 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 : 09/16/2019

Other information : None.

Full text of H-phrases:

H226	Flammable liquid and vapour
H317	May cause an allergic skin reaction
H340	May cause genetic defects
H350	May cause cancer

Phenova US SDS REV

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