

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
 Product name : Rev 8270 Calibration Mix  
 Product code : AL0-130911

#### 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](mailto:info@phenova.com) - [www.phenova.com](http://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 2	H225	Highly 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
Reproductive toxicity Category 1B	H360	May damage fertility or the unborn child
Specific target organ toxicity (single exposure) Category 1	H370	Causes damage to organs

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) :

H225 - Highly flammable liquid and vapour  
 H317 - May cause an allergic skin reaction  
 H340 - May cause genetic defects  
 H350 - May cause cancer  
 H360 - May damage fertility or the unborn child  
 H370 - Causes damage to organs

Precautionary statements (GHS US) :

P201 - Obtain special instructions before use.  
 P202 - Do not handle until all safety precautions have been read and understood.  
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P233 - Keep container tightly closed.  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P264 - Wash hands, forearms and face thoroughly after handling.  
 P270 - Do not eat, drink or smoke when using this product.  
 P272 - Contaminated work clothing must not be allowed out of the workplace

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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  
P307+P311 - If exposed: Call a poison center/doctor  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P321 - Specific treatment (see supplemental first aid instruction on this label)  
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

### 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	89.5
methanol (Component)	(CAS-No.) 67-56-1	3
azobenzene (Component)	(CAS-No.) 103-33-3	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
benzo[a]anthracene (Component)	(CAS-No.) 56-55-3	0.1
4-chloroaniline (Component)	(CAS-No.) 106-47-8	0.1
bis(2-chloroethyl) ether (Component)	(CAS-No.) 111-44-4	0.1
chrysene (Component)	(CAS-No.) 218-01-9	0.1
4-chloro-3-methylphenol (Component)	(CAS-No.) 59-50-7	0.1
dibenz(a,h)anthracene (Component)	(CAS-No.) 53-70-3	0.1
hexachlorobuta-1,3-diene (Component)	(CAS-No.) 87-68-3	0.1
naphthalene (Component)	(CAS-No.) 91-20-3	0.1
1,4-dichlorobenzene (Component)	(CAS-No.) 106-46-7	0.1
nitrobenzene (Component)	(CAS-No.) 98-95-3	0.1
hexachloroethane (Component)	(CAS-No.) 67-72-1	0.1
2,4-dinitrotoluene (Component)	(CAS-No.) 121-14-2	0.1
hexachlorobenzene (Component)	(CAS-No.) 118-74-1	0.1
Bis(2-ethylhexyl) phthalate (Component)	(CAS-No.) 117-81-7	0.1
indeno(1,2,3-cd)pyrene (Component)	(CAS-No.) 193-39-5	0.1
4,6-Dinitro-2-methylphenol (Component)	(CAS-No.) 534-52-1	0.1

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Name	Product identifier	Conc.
2,6-dinitrotoluene (Component)	(CAS-No.) 606-20-2	0.1
isophorone (Component)	(CAS-No.) 78-59-1	0.1
hydroquinone (Component)	(CAS-No.) 123-31-9	0.1
2,3,4,5,6-pentachlorophenol (Component)	(CAS-No.) 87-86-5	0.1
2,4,6-trichlorophenol (Component)	(CAS-No.) 88-06-2	0.1
N-Nitrosodimethylamine (Component)	(CAS-No.) 62-75-9	0.1
N-Nirosodi-n-propylamine (Component)	(CAS-No.) 621-64-7	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 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.
- 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.

#### 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.

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### 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

Rev 8270 Calibration 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

#### azobenzene (103-33-3)

Not applicable

#### 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

#### 4-chloroaniline (106-47-8)

Not applicable

#### 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 <sup>3</sup> )	90 mg/m <sup>3</sup>
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

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<b>1,4-dichlorobenzene (106-46-7)</b>		
ACGIH	Local name	p-Dichlorobenzene
ACGIH	ACGIH TWA (ppm)	10 ppm
ACGIH	Remark (ACGIH)	Eye irr; kidney dam
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	450 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	75 ppm
OSHA	OSHA PEL (STEL) (mg/m <sup>3</sup> )	675 mg/m <sup>3</sup>
OSHA	OSHA PEL (STEL) (ppm)	110 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
<b>4,6-Dinitro-2-methylphenol (534-52-1)</b>		
ACGIH	Local name	Dinitro-o-cresol
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
ACGIH	Remark (ACGIH)	Basal metab
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
OSHA	Regulatory reference (US-OSHA)	OSHA
<b>2,4-dinitrotoluene (121-14-2)</b>		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
<b>2,6-dinitrotoluene (606-20-2)</b>		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
<b>Bis(2-ethylhexyl) phthalate (117-81-7)</b>		
ACGIH	Local name	Di(2-ethylhexyl)phthalate (DEHP)
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
ACGIH	Remark (ACGIH)	LRT irr
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
OSHA	Regulatory reference (US-OSHA)	OSHA
<b>hexachlorobenzene (118-74-1)</b>		
ACGIH	Local name	Hexachlorobenzene
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.002 mg/m <sup>3</sup>
ACGIH	Remark (ACGIH)	Porphyrin eff; Skin dam; CNS impair
ACGIH	Regulatory reference	ACGIH 2018
<b>hexachlorobuta-1,3-diene (87-68-3)</b>		
ACGIH	Local name	Hexachlorobutadiene
ACGIH	ACGIH TWA (ppm)	0.02 ppm
ACGIH	Remark (ACGIH)	Kidney dam
ACGIH	Regulatory reference	ACGIH 2018
<b>hexachloroethane (67-72-1)</b>		
ACGIH	Local name	Hexachloroethane
ACGIH	ACGIH TWA (ppm)	1 ppm
ACGIH	Remark (ACGIH)	Liver & kidney dam
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>

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<b>hexachloroethane (67-72-1)</b>		
OSHA	OSHA PEL (TWA) (ppm)	1 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
<b>hydroquinone (123-31-9)</b>		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
<b>indeno(1,2,3-cd)pyrene (193-39-5)</b>		
Not applicable		
<b>isophorone (78-59-1)</b>		
ACGIH	Local name	Isophorone
ACGIH	ACGIH Ceiling (ppm)	5 ppm
ACGIH	Remark (ACGIH)	Eye & URT irr; CNS impair;
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	140 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	25 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
<b>naphthalene (91-20-3)</b>		
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 <sup>3</sup> )	50 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	10 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
<b>nitrobenzene (98-95-3)</b>		
ACGIH	Local name	Nitrobenzene
ACGIH	ACGIH TWA (ppm)	1 ppm (Nitrobenzene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	MeHb-emia
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	1 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
<b>N-Nitrosodimethylamine (62-75-9)</b>		
Not applicable		
<b>N-Nirosodi-n-propylamine (621-64-7)</b>		
Not applicable		
<b>2,3,4,5,6-pentachlorophenol (87-86-5)</b>		
ACGIH	Local name	Pentachlorophenol
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup> (Inhalable fraction and vapor)

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<b>2,3,4,5,6-pentachlorophenol (87-86-5)</b>		
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Inhalable fraction and vapor)
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 <sup>3</sup> )	0.5 mg/m <sup>3</sup>
OSHA	Regulatory reference (US-OSHA)	OSHA

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

Not applicable

### **methanol (67-56-1)**

ACGIH	Local name	Methanol
ACGIH	ACGIH TWA (ppm)	200 ppm (Methanol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	ACGIH STEL (ppm)	250 ppm (Methanol; USA; Short time value; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	200 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**

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

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### 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

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

#### azobenzene (103-33-3)

LD50 oral rat	1000 mg/kg (Rat, Literature study, Oral)
ATE US (oral)	1000 mg/kg body weight



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<b>azobenzene (103-33-3)</b>	
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h

<b>4-chloroaniline (106-47-8)</b>	
LD50 oral rat	300 - 340 mg/kg body weight (Rat, Male / female, Experimental value, Oral, 7 day(s))
LD50 dermal rabbit	360 mg/kg body weight (24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (mg/l)	2.34 mg/l (4 h, Rat, Male, Experimental value, Inhalation (vapours))
ATE US (oral)	300 mg/kg body weight
ATE US (dermal)	360 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	2.34 mg/l/4h
ATE US (dust, mist)	2.34 mg/l/4h

<b>bis(2-chloroethyl) ether (111-44-4)</b>	
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

<b>4-chloro-3-methylphenol (59-50-7)</b>	
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

<b>1,4-dichlorobenzene (106-46-7)</b>	
LD50 dermal rat	> 6000 mg/kg (Rat, Dermal)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Dermal)
LC50 inhalation rat (mg/l)	> 5 mg/l (4 h, Rat, Inhalation)
ATE US (oral)	500 mg/kg body weight

<b>4,6-Dinitro-2-methylphenol (534-52-1)</b>	
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

<b>2,4-dinitrotoluene (121-14-2)</b>	
ATE US (oral)	100 mg/kg body weight
ATE US (dermal)	300 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	3 mg/l/4h
ATE US (dust, mist)	0.5 mg/l/4h

<b>2,6-dinitrotoluene (606-20-2)</b>	
LD50 oral rat	177 mg/kg (Rat, Oral)
ATE US (oral)	177 mg/kg body weight
ATE US (dermal)	300 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	3 mg/l/4h
ATE US (dust, mist)	0.5 mg/l/4h

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<b>Bis(2-ethylhexyl) phthalate (117-81-7)</b>	
LD50 dermal rabbit	19800 mg/kg body weight (24 h, Rabbit, Experimental value, Dermal)
ATE US (dermal)	19800 mg/kg body weight
<b>hexachlorobenzene (118-74-1)</b>	
LD50 oral rat	10000 mg/kg (Rat, Oral)
ATE US (oral)	10000 mg/kg body weight
<b>hexachlorobuta-1,3-diene (87-68-3)</b>	
LD50 oral rat	90 mg/kg (Rat, Oral)
LD50 dermal rabbit	1211 mg/kg (Rabbit, Dermal)
ATE US (oral)	90 mg/kg body weight
ATE US (dermal)	1211 mg/kg body weight
<b>hexachloroethane (67-72-1)</b>	
LD50 oral rat	4460 mg/kg (Rat, Oral)
LD50 dermal rabbit	32000 mg/kg (Rabbit, Dermal)
ATE US (oral)	4460 mg/kg body weight
ATE US (dermal)	32000 mg/kg body weight
<b>hydroquinone (123-31-9)</b>	
LD50 oral rat	> 375 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
ATE US (oral)	500 mg/kg body weight
<b>isophorone (78-59-1)</b>	
LD50 oral rat	1500 mg/kg body weight (Rat, Male / female, Experimental value, Oral, 13 day(s))
LD50 dermal rabbit	1200 mg/kg body weight (24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (mg/l)	7 mg/l (4 h, Rat, Male, Experimental value, Inhalation (aerosol), 14 day(s))
ATE US (oral)	1500 mg/kg body weight
ATE US (dermal)	1200 mg/kg body weight
ATE US (vapors)	7 mg/l/4h
ATE US (dust, mist)	7 mg/l/4h
<b>naphthalene (91-20-3)</b>	
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
<b>nitrobenzene (98-95-3)</b>	
LD50 oral rat	640 mg/kg (Rat; Experimental value; 588 mg/kg bodyweight; Rat)
LD50 dermal rabbit	760 mg/kg body weight (Rabbit; Experimental value)
ATE US (oral)	100 mg/kg body weight
ATE US (dermal)	760 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	3 mg/l/4h
ATE US (dust, mist)	0.5 mg/l/4h
<b>N-Nitrosodimethylamine (62-75-9)</b>	
LD50 oral rat	37 mg/kg (Rat)
LC50 inhalation rat (mg/l)	0.24 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	78 ppm/4h (Rat)
ATE US (oral)	37 mg/kg body weight
ATE US (gases)	78 ppmV/4h
ATE US (vapors)	0.24 mg/l/4h
ATE US (dust, mist)	0.24 mg/l/4h
<b>N-Nirosodi-n-propylamine (621-64-7)</b>	
LD50 oral rat	480 mg/kg (Rat)
ATE US (oral)	480 mg/kg body weight

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<b>2,3,4,5,6-pentachlorophenol (87-86-5)</b>	
LC50 inhalation rat (mg/l)	355 mg/m <sup>3</sup> (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
<b>2,4,6-trichlorophenol (88-06-2)</b>	
LD50 oral rat	820 mg/kg (Rat, Literature study, Oral)
ATE US (oral)	820 mg/kg body weight
<b>methanol (67-56-1)</b>	
LD50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of evidence)
LD50 dermal rabbit	15800 mg/kg (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	64000 ppm/4h (Rat; Literature study)
ATE US (oral)	100 mg/kg body weight
ATE US (dermal)	300 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	3 mg/l/4h
ATE US (dust, mist)	0.5 mg/l/4h
<b>Methylene Chloride (75-09-2)</b>	
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.
<b>azobenzene (103-33-3)</b>	
IARC group	3 - Not classifiable
<b>benzo[a]anthracene (56-55-3)</b>	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
<b>benzo[a]pyrene (50-32-8)</b>	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
<b>Benzo(b)fluoranthene (205-99-2)</b>	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
<b>benzo[k]fluoranthene (207-08-9)</b>	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
<b>4-chloroaniline (106-47-8)</b>	
IARC group	2B - Possibly carcinogenic to humans
<b>bis(2-chloroethyl) ether (111-44-4)</b>	
IARC group	3 - Not classifiable
<b>dibenz(a,h)anthracene (53-70-3)</b>	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
<b>1,4-dichlorobenzene (106-46-7)</b>	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
<b>2,4-dinitrotoluene (121-14-2)</b>	
IARC group	2B - Possibly carcinogenic to humans

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<b>2,6-dinitrotoluene (606-20-2)</b>	
IARC group	2B - Possibly carcinogenic to humans
<b>Bis(2-ethylhexyl) phthalate (117-81-7)</b>	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
<b>hexachlorobenzene (118-74-1)</b>	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
<b>hexachloroethane (67-72-1)</b>	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
<b>hydroquinone (123-31-9)</b>	
IARC group	3 - Not classifiable
<b>indeno(1,2,3-cd)pyrene (193-39-5)</b>	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
<b>naphthalene (91-20-3)</b>	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
<b>nitrobenzene (98-95-3)</b>	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
<b>N-Nitrosodimethylamine (62-75-9)</b>	
IARC group	2A - Probably carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
<b>N-Nirosodi-n-propylamine (621-64-7)</b>	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
<b>2,3,4,5,6-pentachlorophenol (87-86-5)</b>	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
<b>2,4,6-trichlorophenol (88-06-2)</b>	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
<b>Methylene Chloride (75-09-2)</b>	
IARC group	2A - Probably carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen

Reproductive toxicity : May damage fertility or the unborn child.  
STOT-single exposure : Causes damage to organs.

STOT-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.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

<b>azobenzene (103-33-3)</b>	
LC50 fish 1	< 1 mg/l (Pisces)
<b>benzo[a]anthracene (56-55-3)</b>	
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)
<b>benzo[a]pyrene (50-32-8)</b>	
LC50 fish 1	0.0056 mg/l (38 h, Pimephales promelas, Lethal)
<b>4-chloroaniline (106-47-8)</b>	
LC50 fish 1	2.4 mg/l (Other, 96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value)
<b>bis(2-chloroethyl) ether (111-44-4)</b>	
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)
<b>4-chloro-3-methylphenol (59-50-7)</b>	
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)
<b>1,4-dichlorobenzene (106-46-7)</b>	
LC50 fish 1	1.12 mg/l (96 h, Salmo gairdneri, Flow-through system)
EC50 Daphnia 1	0.7 mg/l (48 h, Daphnia magna, Measured concentration)
<b>4,6-Dinitro-2-methylphenol (534-52-1)</b>	
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)
<b>2,6-dinitrotoluene (606-20-2)</b>	
LC50 fish 1	18.5 - 50 mg/l (96 h, Pimephales promelas)
EC50 Daphnia 1	21.7 mg/l (48 h, Daphnia magna, Static system)
<b>hexachlorobenzene (118-74-1)</b>	
LC50 fish 1	2.3 mg/l (96 h, Salmo gairdneri)
EC50 Daphnia 1	> 0.03 mg/l (24 h, Daphnia magna)
<b>hexachlorobuta-1,3-diene (87-68-3)</b>	
LC50 fish 1	0.25 mg/l (96 h, Salmo gairdneri)
EC50 other aquatic organisms 1	0.21 mg/l (96 h, Lymnaea sp.)
<b>hexachloroethane (67-72-1)</b>	
LC50 fish 1	0.84 mg/l (96 h, Salmo gairdneri)
EC50 Daphnia 1	1.4 mg/l (Daphnia magna)
<b>hydroquinone (123-31-9)</b>	
LC50 fish 1	0.638 mg/l (Equivalent or similar to OECD 203, 96 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value)
EC50 Daphnia 1	0.061 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, GLP)
ErC50 (algae)	0.33 mg/l (Equivalent or similar to OECD 201, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
<b>isophorone (78-59-1)</b>	
LC50 fish 1	228 mg/l (Other, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)
EC50 Daphnia 1	254 mg/l (DIN 38412-11, 24 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)

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<b>naphthalene (91-20-3)</b>	
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)
<b>nitrobenzene (98-95-3)</b>	
LC50 fish 1	4.3 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 48 h; Oryzias latipes)
EC50 Daphnia 1	35 mg/l (Other, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)

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

<b>2,4,6-trichlorophenol (88-06-2)</b>	
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)

<b>methanol (67-56-1)</b>	
LC50 fish 1	15400 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)
EC50 Daphnia 1	> 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
LC50 fish 2	10800 mg/l (LC50; 96 h; Salmo gairdneri)

<b>Methylene Chloride (75-09-2)</b>	
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

<b>Rev 8270 Calibration Mix</b>	
Persistence and degradability	Not established.

<b>azobenzene (103-33-3)</b>	
Persistence and degradability	Not readily biodegradable in water.

<b>benzo[a]anthracene (56-55-3)</b>	
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 <sub>2</sub> /g substance

<b>benzo[a]pyrene (50-32-8)</b>	
Persistence and degradability	Biodegradable in the soil. Not readily biodegradable in water.
Chemical oxygen demand (COD)	2.92 g O <sub>2</sub> /g substance
ThOD	2.92 g O <sub>2</sub> /g substance

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

<b>benzo[k]fluoranthene (207-08-9)</b>	
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water.
ThOD	2.92 g O <sub>2</sub> /g substance

<b>4-chloroaniline (106-47-8)</b>	
Persistence and degradability	Non degradable in the soil. Inherently biodegradable. Not readily biodegradable in water.

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

<b>4-chloro-3-methylphenol (59-50-7)</b>	
Persistence and degradability	Biodegradable in the soil. Not readily biodegradable in water. Inherently biodegradable.
Chemical oxygen demand (COD)	1.5 - 1.8 g O <sub>2</sub> /g substance

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<b>chrysene (218-01-9)</b>	
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water.
<b>dibenz(a,h)anthracene (53-70-3)</b>	
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water.
<b>1,4-dichlorobenzene (106-46-7)</b>	
Persistence and degradability	Non degradable in the soil. Readily biodegradable in water.
ThOD	1.52 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.65 (Calculated value)
<b>4,6-Dinitro-2-methylphenol (534-52-1)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>2,4-dinitrotoluene (121-14-2)</b>	
Persistence and degradability	Not readily biodegradable in water.
Chemical oxygen demand (COD)	1.6 g O <sub>2</sub> /g substance
<b>2,6-dinitrotoluene (606-20-2)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>Bis(2-ethylhexyl) phthalate (117-81-7)</b>	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
<b>hexachlorobenzene (118-74-1)</b>	
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water. Not easily biodegradable in water in anaerobic conditions.
<b>hexachlorobuta-1,3-diene (87-68-3)</b>	
Persistence and degradability	Biodegradability in soil: no data available. Readily biodegradable in water.
<b>hexachloroethane (67-72-1)</b>	
Persistence and degradability	Readily biodegradable in water.
<b>hydroquinone (123-31-9)</b>	
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.48 - 1.1 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.83 g O <sub>2</sub> /g substance
ThOD	1.89 g O <sub>2</sub> /g substance
<b>indeno(1,2,3-cd)pyrene (193-39-5)</b>	
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water.
ThOD	2.9 g O <sub>2</sub> /g substance
<b>isophorone (78-59-1)</b>	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.78 g O <sub>2</sub> /g substance
<b>naphthalene (91-20-3)</b>	
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 <sub>2</sub> /g substance
Chemical oxygen demand (COD)	0.22 g O <sub>2</sub> /g substance
ThOD	2.99 g O <sub>2</sub> /g substance
<b>nitrobenzene (98-95-3)</b>	
Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	0 g O <sub>2</sub> /g substance
ThOD	1.95 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0

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<b>N-Nitrosodimethylamine (62-75-9)</b>	
Persistence and degradability	Not readily biodegradable in water. Photolysis in water. Photolysis in the air.
<b>2,3,4,5,6-pentachlorophenol (87-86-5)</b>	
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water.
<b>2,4,6-trichlorophenol (88-06-2)</b>	
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.
<b>methanol (67-56-1)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.42 g O <sub>2</sub> /g substance
ThOD	1.5 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.8 (Literature study)
<b>Methylene Chloride (75-09-2)</b>	
Persistence and degradability	Biodegradable in the soil. Not readily biodegradable in water.

### 12.3. Bioaccumulative potential

<b>Rev 8270 Calibration Mix</b>	
Bioaccumulative potential	Not established.
<b>azobenzene (103-33-3)</b>	
Log Pow	3.82
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>benzo[a]anthracene (56-55-3)</b>	
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).
<b>benzo[a]pyrene (50-32-8)</b>	
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).
<b>Benzo(b)fluoranthene (205-99-2)</b>	
BCF other aquatic organisms 1	2800 (168 h, <i>Lamellibranchiata</i> )
Log Pow	6.57
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
<b>benzo[k]fluoranthene (207-08-9)</b>	
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).
<b>4-chloroaniline (106-47-8)</b>	
BCF fish 1	0.8 - 1.7 (336 h, <i>Cyprinus carpio</i> , Literature study)
BCF other aquatic organisms 1	260 (24 h, <i>Chlorella fusca</i> , Static system, Fresh water, Experimental value, Fresh weight)
Log Pow	1.87 (Experimental value, Equivalent or similar to OECD 117)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>bis(2-chloroethyl) ether (111-44-4)</b>	
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)



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<b>bis(2-chloroethyl) ether (111-44-4)</b>	
Log Pow	1.12 (Experimental value, Equivalent or similar to OECD 107, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>4-chloro-3-methylphenol (59-50-7)</b>	
BCF fish 1	5.5 - 13 (Cyprinus carpio, Test duration: 6 weeks)
Log Pow	2.78 - 3.10
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>chrysene (218-01-9)</b>	
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).
<b>dibenz(a,h)anthracene (53-70-3)</b>	
Log Pow	5.97 - 6.84
<b>1,4-dichlorobenzene (106-46-7)</b>	
BCF fish 1	214 - 720 (Salmo gairdneri, Chronic)
Log Pow	3.39 - 3.62 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
<b>4,6-Dinitro-2-methylphenol (534-52-1)</b>	
BCF fish 1	0.3 - 2.9 (6 week(s), Cyprinus carpio, Literature study)
Log Pow	2.12 - 3.1 (Literature study)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>2,4-dinitrotoluene (121-14-2)</b>	
BCF fish 1	102.8 (336 h, Lepomis macrochirus)
BCF fish 2	16 - 204 (Poecilia reticulata)
BCF other aquatic organisms 1	13 (96 h, Daphnia magna)
BCF other aquatic organisms 2	58 (96 h, Annelida)
Log Pow	1.98 - 2.8
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>2,6-dinitrotoluene (606-20-2)</b>	
BCF fish 1	22 (Poecilia reticulata)
BCF other aquatic organisms 1	5225 (Algae, Biomass)
Log Pow	1.72 - 2.05
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>Bis(2-ethylhexyl) phthalate (117-81-7)</b>	
BCF fish 1	155 - 886 (56 day(s), Pimephales promelas, Literature study)
Log Pow	7.68 (Experimental value, Other)
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
<b>hexachlorobenzene (118-74-1)</b>	
BCF fish 1	20000 (Salmo gairdneri, Test duration: 8 weeks)
BCF fish 2	30000 (Cyprinus carpio, Test duration: 8 weeks)
BCF other aquatic organisms 1	25000 (Algae)
BCF other aquatic organisms 2	1130 (720 h, Daphnia magna)
Log Pow	5.73 - 6.39 (Experimental value)
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
<b>hexachlorobuta-1,3-diene (87-68-3)</b>	
BCF fish 1	17000 (Salmo gairdneri)
BCF fish 2	7000 (Pleuronectes platessa, Flow-through system)
BCF other aquatic organisms 1	45.36 (Procambarus sp., Flow-through system)
BCF other aquatic organisms 2	3000 (Mytilus edulis, Flow-through system)
Log Pow	3.74 - 4.90
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
<b>hexachloroethane (67-72-1)</b>	
BCF fish 1	1200 (Salmo gairdneri)

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<b>hexachloroethane (67-72-1)</b>	
BCF fish 2	756 mg/l (768 h, Pimephales promelas)
Log Pow	3.34 - 4.62
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
<b>hydroquinone (123-31-9)</b>	
BCF fish 1	40 (72 h, Leuciscus idus, Fresh water, Experimental value)
Log Pow	0.59 (Experimental value, 20 - 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>indeno(1,2,3-cd)pyrene (193-39-5)</b>	
BCF other aquatic organisms 1	10000 (240 h, Amphipoda)
Log Pow	6.6 - 7.7
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
<b>isophorone (78-59-1)</b>	
BCF fish 1	7 (Other, 14 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Fresh weight)
Log Pow	1.67 (Experimental value, Equivalent or similar to OECD 107, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>naphthalene (91-20-3)</b>	
BCF fish 1	23 - 168 (BCF; 8 weeks; Cyprinus carpio)
Log Pow	3.3 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>nitrobenzene (98-95-3)</b>	
BCF fish 1	15 (BCF; 672 h)
BCF fish 2	1.6 - 7.7 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 42 days; Cyprinus carpio; Flow-through system; Fresh water; Experimental value)
BCF other aquatic organisms 1	24 (BCF)
Log Pow	1.85 (Calculated; 1.86; Experimental value; EU Method A.8: Partition Coefficient)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>N-Nitrosodimethylamine (62-75-9)</b>	
Log Pow	-0.77 - -0.57
Bioaccumulative potential	Bioaccumulation: not applicable.
<b>N-Nirosodi-n-propylamine (621-64-7)</b>	
Log Pow	1.31 - 1.36
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>2,3,4,5,6-pentachlorophenol (87-86-5)</b>	
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).
<b>2,4,6-trichlorophenol (88-06-2)</b>	
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).
<b>methanol (67-56-1)</b>	
BCF fish 1	< 10 (BCF; 72 h; Leuciscus idus)
Log Pow	-0.77 (Experimental value; Other)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>Methylene Chloride (75-09-2)</b>	
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).

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### 12.4. Mobility in soil

<b>azobenzene (103-33-3)</b>	
Ecology - soil	No (test)data on mobility of the substance available. May be harmful to plant growth, blooming and fruit formation.
<b>benzo[a]anthracene (56-55-3)</b>	
Ecology - soil	Adsorbs into the soil.
<b>benzo[a]pyrene (50-32-8)</b>	
Ecology - soil	Adsorbs into the soil.
<b>Benzo(b)fluoranthene (205-99-2)</b>	
Ecology - soil	Adsorbs into the soil.
<b>benzo[k]fluoranthene (207-08-9)</b>	
Ecology - soil	Adsorbs into the soil.
<b>4-chloroaniline (106-47-8)</b>	
Ecology - soil	No (test)data on mobility of the substance available. Soil contaminant.
<b>bis(2-chloroethyl) ether (111-44-4)</b>	
Surface tension	0.038 N/m (19 °C)
Log Koc	1.88 (log Koc, Experimental value)
Ecology - soil	Highly mobile in soil.
<b>4-chloro-3-methylphenol (59-50-7)</b>	
Surface tension	Not applicable (solid)
Log Koc	2.69 (log Koc)
Ecology - soil	Low potential for adsorption in soil.
<b>chrysene (218-01-9)</b>	
Ecology - soil	Adsorbs into the soil.
<b>dibenz(a,h)anthracene (53-70-3)</b>	
Ecology - soil	Adsorbs into the soil.
<b>1,4-dichlorobenzene (106-46-7)</b>	
Surface tension	0.03 N/m (55 °C)
Ecology - soil	Adsorbs into the soil.
<b>4,6-Dinitro-2-methylphenol (534-52-1)</b>	
Ecology - soil	No (test)data on mobility of the substance available.
<b>2,4-dinitrotoluene (121-14-2)</b>	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
<b>Bis(2-ethylhexyl) phthalate (117-81-7)</b>	
Surface tension	0.032 N/m (20 °C)
Log Koc	5.2 (log Koc, Calculated value)
Ecology - soil	Adsorbs into the soil. Low potential for mobility in soil.
<b>hexachlorobenzene (118-74-1)</b>	
Ecology - soil	Adsorbs into the soil. Not toxic to bees.
<b>hexachlorobuta-1,3-diene (87-68-3)</b>	
Ecology - soil	Soil contaminant.
<b>hydroquinone (123-31-9)</b>	
Log Koc	1.585 (log Koc, SRC PCKOCWIN v2.0, Experimental value)
Ecology - soil	Highly mobile in soil.
<b>indeno(1,2,3-cd)pyrene (193-39-5)</b>	
Ecology - soil	Adsorbs into the soil.
<b>isophorone (78-59-1)</b>	
Surface tension	32 mN/m (20 °C)
Log Koc	1.766 (log Koc, QSAR)
Ecology - soil	Highly mobile in soil.

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<b>naphthalene (91-20-3)</b>	
Surface tension	0.03 N/m (100 °C)
<b>nitrobenzene (98-95-3)</b>	
Surface tension	0.0439 N/m
Log Koc	Koc,Other; 118; Calculated value; log Koc; Other; 2.07; Calculated value
Ecology - soil	Low potential for adsorption in soil.
<b>2,3,4,5,6-pentachlorophenol (87-86-5)</b>	
Ecology - soil	No (test)data on mobility of the substance available.
<b>2,4,6-trichlorophenol (88-06-2)</b>	
Ecology - soil	No (test)data on mobility of the substance available.
<b>methanol (67-56-1)</b>	
Surface tension	0.023 N/m (20 °C)
Log Koc	Koc,PCKOCWIN v1.66; 1; Calculated value
<b>Methylene Chloride (75-09-2)</b>	
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

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<b>azobenzene (103-33-3)</b>	
<b>benzo[a]anthracene (56-55-3)</b>	
<b>benzo[a]pyrene (50-32-8)</b>	
<b>Benzo(b)fluoranthene (205-99-2)</b>	
<b>benzo[k]fluoranthene (207-08-9)</b>	
<b>4-chloroaniline (106-47-8)</b>	
<b>bis(2-chloroethyl) ether (111-44-4)</b>	
<b>4-chloro-3-methylphenol (59-50-7)</b>	
<b>chrysene (218-01-9)</b>	
<b>dibenz(a,h)anthracene (53-70-3)</b>	
<b>1,4-dichlorobenzene (106-46-7)</b>	
<b>4,6-Dinitro-2-methylphenol (534-52-1)</b>	
<b>2,4-dinitrotoluene (121-14-2)</b>	
<b>2,6-dinitrotoluene (606-20-2)</b>	

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<b>Bis(2-ethylhexyl) phthalate (117-81-7)</b>	
<b>hexachlorobenzene (118-74-1)</b>	
<b>hexachlorobuta-1,3-diene (87-68-3)</b>	
<b>hexachloroethane (67-72-1)</b>	
<b>hydroquinone (123-31-9)</b>	
<b>indeno(1,2,3-cd)pyrene (193-39-5)</b>	
<b>isophorone (78-59-1)</b>	
<b>naphthalene (91-20-3)</b>	
<b>nitrobenzene (98-95-3)</b>	
<b>N-Nitrosodimethylamine (62-75-9)</b>	
<b>N-Nirosodi-n-propylamine (621-64-7)</b>	
<b>2,3,4,5,6-pentachlorophenol (87-86-5)</b>	
<b>2,4,6-trichlorophenol (88-06-2)</b>	
<b>methanol (67-56-1)</b>	
<b>Methylene Chloride (75-09-2)</b>	

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 ; methanol ; azobenzene ; benzo[e]acephenanthrylene ; benzo[k]fluoranthene ; benzo[a]pyrene ; benzo[a]anthracene ; 4-chloroaniline ; chrysene ; 4-chloro-3-methylphenol ; dibenz(a,h)anthracene ; naphthalene ; 1,4-dichlorobenzene ; nitrobenzene ; hexachloroethane ; 2,4-dinitrotoluene ; hexachlorobenzene ; di-2-ethylhexylphthalate ; indeno(1,2,3-cd)pyrene ; 4,6-dinitro-o-cresol ; 2,6-dinitrotoluene ; hydroquinone ; 2,3,4,5,6-pentachlorophenol ; 2,4,6-trichlorophenol ; N-methyl-N-nitrosomethanamine ; nitrosodipropylamine), 6.1, III

UN-No.(DOT) : UN2810

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Proper Shipping Name (DOT)	: Toxic, liquids, organic, n.o.s. dichloromethane ; methanol ; azobenzene ; benzo[e]acephenanthrylene ; benzo[k]fluoranthene ; benzo[a]pyrene ; benzo[a]anthracene ; 4-chloroaniline ; chrysene ; 4-chloro-3-methylphenol ; dibenz(a,h)anthracene ; naphthalene ; 1,4-dichlorobenzene ; nitrobenzene ; hexachloroethane ; 2,4-dinitrotoluene ; hexachlorobenzene ; di-2-ethylhexylphthalate ; indeno(1,2,3-cd)pyrene ; 4,6-dinitro-o-cresol ; 2,6-dinitrotoluene ; hydroquinone ; 2,3,4,5,6-pentachlorophenol ; 2,4,6-trichlorophenol ; N-methyl-N-nitrosomethanamine ; nitrosodipropylamine
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 ; methanol ; azobenzene ; benzo[e]acephenanthrylene ; benzo[k]fluoranthene ; benzo[a]pyrene ; benzo[a]anthracene ; 4-chloroaniline ; chrysene ; 4-chloro-3-methylphenol ; dibenz(a,h)anthracene ; naphthalene ; 1,4-dichlorobenzene ; nitrobenzene ; hexachloroethane ; 2,4-dinitrotoluene ; hexachlorobenzene ; di-2-ethylhexylphthalate ; indeno(1,2,3-cd)pyrene ; 4,6-dinitro-o-cresol ; 2,6-dinitrotoluene ; hydroquinone ; 2,3,4,5,6-pentachlorophenol ; 2,4,6-trichlorophenol ; N-methyl-N-nitrosomethanamine ; nitrosodipropylamine), 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

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### Air transport

Transport document description (IATA)	: UN 2810 Toxic liquid, organic, n.o.s. (dichloromethane ; methanol ; azobenzene ; benzo[e]acephenanthrylene ; benzo[k]fluoranthene ; benzo[a]pyrene ; benzo[a]anthracene ; 4-chloroaniline ; chrysene ; 4-chloro-3-methylphenol ; dibenz(a,h)anthracene ; naphthalene ; 1,4-dichlorobenzene ; nitrobenzene ; hexachloroethane ; 2,4-dinitrotoluene ; hexachlorobenzene ; di-2-ethylhexylphthalate ; indeno(1,2,3-cd)pyrene ; 4,6-dinitro-o-cresol ; 2,6-dinitrotoluene ; hydroquinone ; 2,3,4,5,6-pentachlorophenol ; 2,4,6-trichlorophenol ; N-methyl-N-nitrosomethanamine ; nitrosodipropylamine), 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

<b>azobenzene (103-33-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>benzo[a]anthracene (56-55-3)</b>	
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
<b>benzo[a]pyrene (50-32-8)</b>	
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
<b>Benzo(b)fluoranthene (205-99-2)</b>	
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
<b>benzo[k]fluoranthene (207-08-9)</b>	
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
<b>4-chloroaniline (106-47-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	1000 lb
<b>bis(2-chloroethyl) ether (111-44-4)</b>	
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
RQ (Reportable quantity, section 304 of EPA's List of Lists)	10 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb
<b>4-chloro-3-methylphenol (59-50-7)</b>	
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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<b>chrysene (218-01-9)</b>	
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
<b>dibenz(a,h)anthracene (53-70-3)</b>	
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
<b>1,4-dichlorobenzene (106-46-7)</b>	
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
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
<b>4,6-Dinitro-2-methylphenol (534-52-1)</b>	
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
RQ (Reportable quantity, section 304 of EPA's List of Lists)	10 lb
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
<b>2,4-dinitrotoluene (121-14-2)</b>	
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
<b>2,6-dinitrotoluene (606-20-2)</b>	
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
<b>Bis(2-ethylhexyl) phthalate (117-81-7)</b>	
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
<b>hexachlorobenzene (118-74-1)</b>	
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
<b>hexachlorobuta-1,3-diene (87-68-3)</b>	
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	1 lb
<b>hexachloroethane (67-72-1)</b>	
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	TP - TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule.
CERCLA RQ	100 lb



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<b>hydroquinone (123-31-9)</b>	
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
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb 500lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form
<b>indeno(1,2,3-cd)pyrene (193-39-5)</b>	
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
<b>isophorone (78-59-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	5000 lb
<b>naphthalene (91-20-3)</b>	
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
<b>nitrobenzene (98-95-3)</b>	
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	1000 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb
<b>N-Nitrosodimethylamine (62-75-9)</b>	
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
RQ (Reportable quantity, section 304 of EPA's List of Lists)	10 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb
<b>N-Nirosodi-n-propylamine (621-64-7)</b>	
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
<b>2,3,4,5,6-pentachlorophenol (87-86-5)</b>	
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
<b>2,4,6-trichlorophenol (88-06-2)</b>	
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

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<b>methanol (67-56-1)</b>	
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	5000 lb
<b>Methylene Chloride (75-09-2)</b>	
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

<b>azobenzene (103-33-3)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>benzo[a]anthracene (56-55-3)</b>	
Listed on the Canadian NDSL (Non-Domestic Substances List)	
<b>benzo[a]pyrene (50-32-8)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>Benzo(b)fluoranthene (205-99-2)</b>	
Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)	
<b>benzo[k]fluoranthene (207-08-9)</b>	
Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)	
<b>4-chloroaniline (106-47-8)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>bis(2-chloroethyl) ether (111-44-4)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>4-chloro-3-methylphenol (59-50-7)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>chrysene (218-01-9)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>dibenz(a,h)anthracene (53-70-3)</b>	
Listed on the Canadian NDSL (Non-Domestic Substances List)	
<b>1,4-dichlorobenzene (106-46-7)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>4,6-Dinitro-2-methylphenol (534-52-1)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>2,4-dinitrotoluene (121-14-2)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>2,6-dinitrotoluene (606-20-2)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>Bis(2-ethylhexyl) phthalate (117-81-7)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>hexachlorobenzene (118-74-1)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>hexachlorobuta-1,3-diene (87-68-3)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>hexachloroethane (67-72-1)</b>	
Listed on the Canadian DSL (Domestic Substances List)	

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<b>hydroquinone (123-31-9)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>indeno(1,2,3-cd)pyrene (193-39-5)</b>
Listed on the Canadian NDSL (Non-Domestic Substances List)
<b>isophorone (78-59-1)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>naphthalene (91-20-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>nitrobenzene (98-95-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>N-Nitrosodimethylamine (62-75-9)</b>
Listed on the Canadian NDSL (Non-Domestic Substances List)
<b>N-Nirosodi-n-propylamine (621-64-7)</b>
Listed on the Canadian NDSL (Non-Domestic Substances List)
<b>2,3,4,5,6-pentachlorophenol (87-86-5)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>2,4,6-trichlorophenol (88-06-2)</b>
Listed on the Canadian NDSL (Non-Domestic Substances List)
<b>methanol (67-56-1)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Methylene Chloride (75-09-2)</b>
Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

No additional information available

### National regulations

<b>benzo[a]anthracene (56-55-3)</b>
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)
<b>benzo[a]pyrene (50-32-8)</b>
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)
<b>Benzo(b)fluoranthene (205-99-2)</b>
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)
<b>benzo[k]fluoranthene (207-08-9)</b>
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)
<b>4-chloroaniline (106-47-8)</b>
Listed on IARC (International Agency for Research on Cancer)
<b>bis(2-chloroethyl) ether (111-44-4)</b>
Listed on EPA Hazardous Air Pollutant (HAPS)
<b>chrysene (218-01-9)</b>
Listed on IARC (International Agency for Research on Cancer)
<b>dibenz(a,h)anthracene (53-70-3)</b>
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)

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### **1,4-dichlorobenzene (106-46-7)**

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

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

Listed on EPA Hazardous Air Pollutant (HAPS)

### **2,4-dinitrotoluene (121-14-2)**

Listed on IARC (International Agency for Research on Cancer)  
Listed on EPA Hazardous Air Pollutant (HAPS)

### **2,6-dinitrotoluene (606-20-2)**

Listed on IARC (International Agency for Research on Cancer)

### **Bis(2-ethylhexyl) phthalate (117-81-7)**

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

### **hexachlorobenzene (118-74-1)**

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

### **hexachlorobuta-1,3-diene (87-68-3)**

Listed on EPA Hazardous Air Pollutant (HAPS)

### **hexachloroethane (67-72-1)**

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

### **hydroquinone (123-31-9)**

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)

### **isophorone (78-59-1)**

Listed on EPA Hazardous Air Pollutant (HAPS)

### **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)

### **nitrobenzene (98-95-3)**

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

### **N-Nitrosodimethylamine (62-75-9)**

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

### **N-Nirosodi-n-propylamine (621-64-7)**

Listed on IARC (International Agency for Research on Cancer)  
Listed as carcinogen on NTP (National Toxicology Program)

### **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)

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<b>methanol (67-56-1)</b>
Listed on EPA Hazardous Air Pollutant (HAPS)

<b>Methylene Chloride (75-09-2)</b>
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

<b>azobenzene (103-33-3)</b>					
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	6 µg/day	

<b>benzo[a]anthracene (56-55-3)</b>					
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	

<b>benzo[a]pyrene (50-32-8)</b>					
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	

<b>Benzo(b)fluoranthene (205-99-2)</b>					
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	

<b>benzo[k]fluoranthene (207-08-9)</b>					
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		

<b>4-chloroaniline (106-47-8)</b>					
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	1.5 µg/day	

<b>bis(2-chloroethyl) ether (111-44-4)</b>					
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	

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<b>chrysene (218-01-9)</b>					
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	
<b>dibenz(a,h)anthracene (53-70-3)</b>					
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	
<b>1,4-dichlorobenzene (106-46-7)</b>					
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	20 µg/day	
<b>2,4-dinitrotoluene (121-14-2)</b>					
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	Yes	2 µg/day	
<b>2,6-dinitrotoluene (606-20-2)</b>					
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	Yes		
<b>Bis(2-ethylhexyl) phthalate (117-81-7)</b>					
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	Yes	No	Yes	310 µg/day	4200 µg/day (intravenous), Adult; 600 µg/day (intravenous), Infant boys, age 29 days - 24 mos; 210 µg/day (intravenous), Neonatal infant boys, age 0 - 28 days; 410 µg/day (oral), Adult; 58 µg/day (oral), Infant boys, age 29 days - 24 mos; 20 µg/day (oral), Neonatal infant boys, age 0 - 28 days

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<b>hexachlorobenzene (118-74-1)</b>					
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	Yes	No	No	0.4 µg/day	
<b>hexachlorobuta-1,3-diene (87-68-3)</b>					
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		
<b>hexachloroethane (67-72-1)</b>					
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	20 µg/day	
<b>indeno(1,2,3-cd)pyrene (193-39-5)</b>					
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		
<b>naphthalene (91-20-3)</b>					
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	
<b>nitrobenzene (98-95-3)</b>					
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	Yes		
<b>N-Nitrosodimethylamine (62-75-9)</b>					
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	0.04 µg/day	
<b>N-Nirosodi-n-propylamine (621-64-7)</b>					
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	0.1 µg/day	

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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	
methanol (67-56-1)					
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)
No	Yes	No	No		47000 µg/day (inhalation); 23,000 µg/day (oral)
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 : 12/30/2019

Other information : None.

Full text of H-phrases:

H225	Highly flammable liquid and vapour
H317	May cause an allergic skin reaction
H340	May cause genetic defects
H350	May cause cancer
H360	May damage fertility or the unborn child
H370	Causes damage to organs

Phenova US SDS REV

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