

Safety Data Sheet

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

Date of issue: 03/27/2019 Revision date: 03/27/2019 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : Cust 8270 Calibration Mix

Product code AL0-130638

1.2. Recommended use and restrictions on use

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

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

GHS-US classification

Flammable liquids H225 Highly flammable liquid and vapour

Category 2

Skin sensitization, Category H317 May cause an allergic skin reaction

Germ cell mutagenicity H340 May cause genetic defects Category 1B

Carcinogenicity Category H350 May cause cancer

H360

Reproductive toxicity Category 1B

May damage fertility or the unborn child

Full text of H statements : see section 16

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

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Precautionary statements (GHS-US)

P233 - Keep container tightly closed.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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 Substance

Not applicable

3.2. Mixtures

Name	Product identifier	Conc.
Methylene Chloride (Component)	(CAS-No.) 75-09-2	92.6
azobenzene (Component)	(CAS-No.) 103-33-3	0.1
benzo[a]anthracene (Component)	(CAS-No.) 56-55-3	0.1
benzo[a]pyrene (Component)	(CAS-No.) 50-32-8	0.1
Bis(2-ethylhexyl) phthalate (Component)	(CAS-No.) 117-81-7	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
1,4-dichlorobenzene (Component)	(CAS-No.) 106-46-7	0.1
4-chloroaniline (Component)	(CAS-No.) 106-47-8	0.1
2,4-dinitrotoluene (Component)	(CAS-No.) 121-14-2	0.1
chrysene (Component)	(CAS-No.) 218-01-9	0.1
4,6-Dinitro-2-methylphenol (Component)	(CAS-No.) 534-52-1	0.1
2,6-dinitrotoluene (Component)	(CAS-No.) 606-20-2	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
nitrobenzene (Component)	(CAS-No.) 98-95-3	0.1
hexachloroethane (Component)	(CAS-No.) 67-72-1	0.1
2,3,4,5,6-pentachlorophenol (Component)	(CAS-No.) 87-86-5	0.1
hexachlorobenzene (Component)	(CAS-No.) 118-74-1	0.1
indeno(1,2,3-cd)pyrene (Component)	(CAS-No.) 193-39-5	0.1
isophorone (Component)	(CAS-No.) 78-59-1	0.1
(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

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

SECTION 4: First-aid measures

4.1. Description of first aid measures

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

medical advice/attention.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.

Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse. Gently wash with plenty of soap and water.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with

water for several minutes.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel

unwell.

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

Potential Adverse human health effects and

symptoms

: Harmful if swallowed. Toxic in contact with skin.

Symptoms/effects after inhalation : May cause cancer by inhalation.

Symptoms/effects after skin contact : Repeated exposure to this material can result in absorption through skin causing significant

health hazard. Toxic in contact with skin.

Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

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

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapor-air mixture. Heat may build pressure, rupturing closed

containers, spreading fire and increasing risk of burns and injuries. Risk of explosion if heated

under confinement.

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. DO NOT fight fire when fire

reaches explosives. Evacuate area.

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. Avoid breathing dust/fume/gas/mist/vapors/spray.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : 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.

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SECTION 7: Handling and storage

Precautions for safe handling

Additional hazards when processed

: Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion.

Precautions for safe handling

Hygiene measures

: 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. No open flames. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Eliminate all ignition sources if safe to do so. Keep away from sources of ignition - No smoking.

Do not eat, drink or smoke when using this product. Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before

Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond

container and receiving equipment.

Storage conditions : Keep in fireproof place. Keep container tightly closed. Keep container tightly closed and in a

well-ventilated place. Keep away from any flames or sparking source.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

SECTION 8: Exposure controls/personal protection

Cust 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)

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

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/m³)	90 mg/m³
OSHA	OSHA PEL (Ceiling) (ppm)	15 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA

ACGIH	Local name	Di(2-ethylhexyl)phthalate (DEHP)
ACGIH	ACGIH TWA (mg/m³)	5 mg/m³

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Bis(2-ethylhexyl) phthalate	(117-81-7)	
ACGIH	Remark (ACGIH)	LRT irr
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³
OSHA	Regulatory reference (US-OSHA)	OSHA
4-chloroaniline (106-47-8)		
Not applicable		
4-chloro-3-methylphenol (59)-50-7)	
Not applicable		
chrysene (218-01-9)		
Not applicable	2.2)	
dibenz(a,h)anthracene (53-7 Not applicable	0-3)	
1,4-dichlorobenzene (106-46	i.7)	
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/m³)	450 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	75 ppm
OSHA	OSHA PEL (STEL) (mg/m³)	675 mg/m³
OSHA	OSHA PEL (STEL) (ppm)	110 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
	, ,	COLIA
4,6-Dinitro-2-methylphenol (ACGIH	Local name	Dinitro-o-cresol
ACGIH	ACGIH TWA (mg/m³)	0.2 mg/m³
ACGIH	Remark (ACGIH)	Basal metab
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	0.2 mg/m³
OSHA	Regulatory reference (US-OSHA)	OSHA
	, ,	OSHA
2,4-dinitrotoluene (121-14-2) ACGIH	ACGIH TWA (mg/m³)	0.2 mg/m³
		0.2 mg/m
2,6-dinitrotoluene (606-20-2) ACGIH	ACGIH TWA (mg/m³)	0.2 mg/m³
	<u> </u>	0.2 mg/m
hexachlorobenzene (118-74	·	Have ablanch among
ACGIH	Local name	Hexachlorobenzene
ACGIH	ACGIH TWA (mg/m³)	0.002 mg/m³
ACGIH	Remark (ACGIH)	Porphyrin eff; Skin dam; CNS impair
AUGIH	ACGIH Regulatory reference ACGIH 2018	
hexachlorobuta-1,3-diene (8	•	10
ACGIH	Local name	Hexachlorobutadiene
ACGIH	ACGIH TWA (ppm)	0.02 ppm
ACGIH	Remark (ACGIH)	Kidney dam
ACGIH	Regulatory reference	ACGIH 2018

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hexachloroethane (6	7-72-1)	
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/m³)	10 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	1 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
indeno(1,2,3-cd)pyre	ene (193-39-5)	
isophorone (78-59-1		
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/m³)	140 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	25 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
naphthalene (91-20-3	3)	
ACGIH	Local name	Naphthalene
ACGIH	ACGIH TWA (ppm)	10 ppm (Naphthalene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	Hematologic eff; URT & eye irr; Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure)
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	50 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	10 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
nitrobenzene (98-95-	3)	
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/m³)	5 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	1 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
N-Nitrosodimethylar	nine (62-75-9)	
Not applicable		
N-Nirosodi-n-propyla	amine (621-64-7)	
Not applicable		

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2,3,4,5,6-pentachlorophenol (87-86-5)		
ACGIH	Local name	Pentachlorophenol
ACGIH	ACGIH TWA (mg/m³)	0.5 mg/m³ (Inhalable fraction and vapor)
ACGIH	ACGIH STEL (mg/m³)	1 mg/m³ (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/m³)	0.5 mg/m³
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

Appropriate engineering controls

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

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure. Wash hands, forearms and face thoroughly after handling. Gloves. Protective clothing. Protective goggles. Safety glasses.

Hand protection:

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

Eye protection:

Chemical goggles or safety glasses. Safety glasses

Skin and body protection:

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

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Personal protective equipment symbol(s):









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Other information:

Do not eat, drink or smoke during use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid : Colorless Color Odor : characteristic Odor threshold : No data available рН : No data available No data available Melting point No data available Freezing point Boiling point : No data available : No data available Flash point Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : Highly flammable liquid and vapour.

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 · No data available Auto-ignition temperature Decomposition temperature : No data available Viscosity, kinematic No data available Viscosity, dynamic : No data available **Explosion limits** : No data available

Explosive properties : Risk of explosion if heated under confinement.

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

Highly flammable liquid and vapour. May form flammable/explosive vapor-air mixture. Risk of explosion if heated under confinement. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Heat. Sparks. Overheating

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

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)

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azobenzene (103-33-3)		
ATE US (oral)	1000 mg/kg body weight	
ATE US (gases)	4500 ppmV/4h	
ATE US (vapors)	11 mg/l/4h	
ATE US (dust, mist)	1.5 mg/l/4h	
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	
Bis(2-ethylhexyl) phthalate (117-81-	7)	
LD50 dermal rabbit	19800 mg/kg body weight (24 h, Rabbit, Experimental value, Dermal)	
ATE US (dermal)	19800 mg/kg body weight	
4-chloroaniline (106-47-8)		
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	
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,	
LB00 domarrat	Experimental value, Dermal, 14 day(s))	
ATE US (oral)	1830 mg/kg body weight	
ATE US (dermal)	1100 mg/kg body weight	
4.		
1,4-dichlorobenzene (106-46-7)	> COOO were the second to the	
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	
4,6-Dinitro-2-methylphenol (534-52-	,	
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	
2,4-dinitrotoluene (121-14-2)		
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	
2,6-dinitrotoluene (606-20-2)		
LD50 oral rat	177 mg/kg (Rat, Oral)	
ATE US (oral)	177 mg/kg body weight	
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2,6-dinitrotoluene (606-20-2)		
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ATE US (dermal)	300 mg/kg body weight	
ATE US (gases)	700 ppmV/4h	
ATE US (dust mist)	3 mg/l/4h	
ATE US (dust, mist)	0.5 mg/l/4h	
hexachlorobenzene (118-74-1)	10000 W (D 10 1)	
LD50 oral rat	10000 mg/kg (Rat, Oral)	
ATE US (oral)	10000 mg/kg body weight	
hexachlorobuta-1,3-diene (87-68-3)		
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	
hexachloroethane (67-72-1)		
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	
isophorone (78-59-1)		
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	
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	
nitrobenzene (98-95-3)		
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	
N-Nitrosodimethylamine (62-75-9)		
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	
N-Nirosodi-n-propylamine (621-64-7)		
LD50 oral rat	480 mg/kg (Rat)	
ATE US (oral)	480 mg/kg body weight	
2,3,4,5,6-pentachlorophenol (87-86-5) LC50 inhalation rat (mg/l)	355 mg/m³ (Rat, Literature, Inhalation)	

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2,3,4,5,6-pentachlorophenol (87-86-5)		
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.	
	·	
azobenzene (103-33-3)		
IARC group	3 - Not classifiable	
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	
<u> </u>	reasonably unitopated to be trained outsing on	
bis(2-chloroethyl) ether (111-44-4) IARC group	3 - Not classifiable	
0 1	3 - NOT CIASSITIADIE	
Bis(2-ethylhexyl) phthalate (117-81-7)		
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen	
4-chloroaniline (106-47-8)		
IARC group	2B - Possibly carcinogenic to humans	
dibenz(a,h)anthracene (53-70-3)		
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen	
0, 0 ()	The second of th	
1,4-dichlorobenzene (106-46-7) National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen	
	Treasonably anticipated to be truman carolings.	
2,4-dinitrotoluene (121-14-2)		
IARC group	2B - Possibly carcinogenic to humans	
2,6-dinitrotoluene (606-20-2)		
IARC group	2B - Possibly carcinogenic to humans	
hexachlorobenzene (118-74-1)		
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen	
	•	
hexachloroethane (67-72-1)	Descensibly entisinated to be Human Carsinage	
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	
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naphthalene (91-20-3)	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
nitrobenzene (98-95-3)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
N-Nitrosodimethylamine (62-75-9)	
IARC group	2A - Probably carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
N-Nirosodi-n-propylamine (621-64-7)	
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
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	: May damage fertility or the unborn child.
	Based on available data, the classification criteria are not met
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

: Harmful if swallowed. Toxic in contact with skin.

Symptoms/effects after inhalation : May cause cancer by inhalation.

Symptoms/effects after skin contact : Repeated exposure to this material can result in absorption through skin causing significant

health hazard. Toxic in contact with skin.

Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: Ecological information

12.1.	Toxicity

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

azobenzene (103-33-3)		
LC50 fish 1	< 1 mg/l (Pisces)	
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)	
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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, Semistatic 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-chloroaniline (106-47-8)	
LC50 fish 1	2.4 mg/l (Other, 96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value)
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)
1,4-dichlorobenzene (106-46-7)	
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)
4,6-Dinitro-2-methylphenol (534-52-1)	g., (,
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)
,	0.145 mg/l (46 m, Daprinia magna, Literature study)
2,6-dinitrotoluene (606-20-2)	
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)
hexachlorobenzene (118-74-1)	
LC50 fish 1	2.3 mg/l (96 h, Salmo gairdneri)
EC50 Daphnia 1	> 0.03 mg/l (24 h, Daphnia magna)
hexachlorobuta-1,3-diene (87-68-3)	
LC50 fish 1	0.25 mg/l (96 h, Salmo gairdneri)
EC50 other aquatic organisms 1	0.21 mg/l (96 h, Lymnaea sp.)
hexachloroethane (67-72-1)	
LC50 fish 1	0.84 mg/l (96 h, Salmo gairdneri)
EC50 Daphnia 1	1.4 mg/l (Daphnia magna)
isophorone (78-59-1)	
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)
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)
nitrobenzene (98-95-3)	
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)
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)
LOUU Dapiiilia T	5.55 mgn (45 m, Dapinna 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	
Cust 8270 Calibration Mix	
Persistence and degradability	May cause long-term adverse effects in the environment.
azobenzene (103-33-3)	
Persistence and degradability	Not readily biodegradable in water.
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 O₂/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 O₂/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
1 117 (007.00.0)	2.02 g 02g 000000.000
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)	Not used the binderwood blacks we contain
Persistence and degradability	Not readily biodegradable in water.
Bis(2-ethylhexyl) phthalate (117-81-7)	Diada wadahla in the sail Dandily hinda wadahla in water
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
4-chloroaniline (106-47-8)	Non degradable is the sail Inherently his degradable. Not readily his degradable in water
Persistence and degradability	Non degradable in the soil. Inherently biodegradable. 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)	
onemical exygen demand (GGB)	1.5 - 1.8 g O₂/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.
1,4-dichlorobenzene (106-46-7)	New desired black the coll Decille 11 to 11 to 1
Persistence and degradability	Non degradable in the soil. Readily biodegradable in water.
ThOD	1.52 g O ₂ /g substance
BOD (% of ThOD)	0.65 (Calculated value)
4,6-Dinitro-2-methylphenol (534-52-1)	N. C. W. L.
Persistence and degradability	Not readily biodegradable in water.
2,4-dinitrotoluene (121-14-2)	Michael Market and the Committee of the
Persistence and degradability Chemical oxygen demand (COD)	Not readily biodegradable in water.
Chemical oxygen demand (COD)	1.6 g O₂/g substance
2,6-dinitrotoluene (606-20-2)	
Persistence and degradability	Not readily biodegradable in water.

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hexachlorobenzene (118-74-1)	
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water. Not easily biodegradable in
<u> </u>	water in anaerobic conditions.
hexachlorobuta-1,3-diene (87-68-3)	
Persistence and degradability	Biodegradability in soil: no data available. Readily biodegradable in water.
hexachloroethane (67-72-1)	
Persistence and degradability	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 O₂/g substance
isophorone (78-59-1)	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.78 g O₂/g substance
	2.7 6 g O2 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 O₂/g substance
Chemical oxygen demand (COD)	0.22 g O₂/g substance
ThOD	2.99 g O₂/g substance
nitrobenzene (98-95-3)	
Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	0 g O₂/g substance
ThOD	1.95 g O₂/g substance
BOD (% of ThOD)	0
	U C C C C C C C C C C C C C C C C C C C
N-Nitrosodimethylamine (62-75-9) Persistence and degradability	Not readily biodegradable in water. Photolysis in water. Photolysis in the air.
	Not readily blodegradable in water. I flotolysis in water. I flotolysis in the air.
2,3,4,5,6-pentachlorophenol (87-86-5)	Non-dependent in the cast Metacostile is a model to be contained.
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.
12.3. Bioaccumulative potential	
Cust 8270 Calibration Mix	
Bioaccumulative potential	Not established.
azobenzene (103-33-3)	
Log Pow	3.82
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
benzo[a]anthracene (56-55-3)	
BCF fish 1	350 (72 h, Leuciscus idus)
BCF other aquatic organisms 1	1106 (24 h, Daphnia pulex)
BCF other aquatic organisms 2	18000 (192 h, Crassostrea sp.)
Log Pow	5.61 - 5.79
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
benzo[a]pyrene (50-32-8)	
BCF fish 1	480 (72 h, Leuciscus idus)
BCF fish 2	70.7 (168 h, Salmo salar, Eggs)
BCF other aquatic organisms 1	3000 (192 h, Crassostrea sp.)

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benzo[a]pyrene (50-32-8) BCF other aquatic organisms 2 Log Pow 1.5 (24 h, Daphnia magna) 5.97 - 6.06	
Log Pow 5.97 - 6.06	
Bioaccumulative potential High potential for bioaccumulation (Log Kow > 5).	
Benzo(b)fluoranthene (205-99-2)	
BCF other aquatic organisms 1 2800 (168 h, Lamellibranchiata)	
Log Pow 6.57	
Bioaccumulative potential High potential for bioaccumulation (Log Kow > 5).	
benzo[k]fluoranthene (207-08-9)	
BCF fish 1 8750 (Pisces, QSAR)	
BCF other aquatic organisms 1 0.0013 mg/kg (Algae, Dry weight)	
BCF other aquatic organisms 2 37000 (Mytilus edulis)	
Log Pow 6.84	
Bioaccumulative potential High potential for bioaccumulation (BCF > 5000).	
bis(2-chloroethyl) ether (111-44-4)	
BCF fish 1 11 l/kg (Equivalent or similar to OECD 305, 14 day(s), Lepomi system, Fresh water, Experimental value)	s macrochirus, Semi-static
Log Pow 1.12 (Experimental value, Equivalent or similar to OECD 107,	20 °C)
Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).	,
Bis(2-ethylhexyl) phthalate (117-81-7)	
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).	
4-chloroaniline (106-47-8)	
BCF fish 1 0.8 - 1.7 (336 h, Cyprinus carpio, Literature study)	
BCF other aquatic organisms 1 260 (24 h, Chlorella fusca, Static system, Fresh water, Expering	mental value, Fresh weight)
Log Pow 1.87 (Experimental value, Equivalent or similar to OECD 117)	
Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).	
4-chloro-3-methylphenol (59-50-7)	
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).	
chrysene (218-01-9)	
BCF other aquatic organisms 1 4440 (180 day(s), Lamellibranchiata, Literature study, Chronic	2)
Log Pow 5.81 - 5.86 (Experimental value)	,
Bioaccumulative potential High potential for bioaccumulation (Log Kow > 5).	
dibenz(a,h)anthracene (53-70-3)	
dibenz(a,h)anthracene (53-70-3) Log Pow 5.97 - 6.84	
dibenz(a,h)anthracene (53-70-3) Log Pow 5.97 - 6.84 1,4-dichlorobenzene (106-46-7)	
dibenz(a,h)anthracene (53-70-3) Log Pow 5.97 - 6.84 1,4-dichlorobenzene (106-46-7) BCF fish 1 214 - 720 (Salmo gairdneri, Chronic)	
dibenz(a,h)anthracene (53-70-3) Log Pow 5.97 - 6.84 1,4-dichlorobenzene (106-46-7) 214 - 720 (Salmo gairdneri, Chronic) BCF fish 1 214 - 720 (Salmo gairdneri, Chronic) Log Pow 3.39 - 3.62 (Experimental value)	
dibenz(a,h)anthracene (53-70-3) Log Pow 5.97 - 6.84 1,4-dichlorobenzene (106-46-7) 8CF fish 1 BCF fish 1 214 - 720 (Salmo gairdneri, Chronic) Log Pow 3.39 - 3.62 (Experimental value) Bioaccumulative potential Potential for bioaccumulation (500 ≤ BCF ≤ 5000).	
dibenz(a,h)anthracene (53-70-3) Log Pow 5.97 - 6.84 1,4-dichlorobenzene (106-46-7) 214 - 720 (Salmo gairdneri, Chronic) BCF fish 1 214 - 720 (Salmo gairdneri, Chronic) Log Pow 3.39 - 3.62 (Experimental value) Bioaccumulative potential Potential for bioaccumulation (500 ≤ BCF ≤ 5000). 4,6-Dinitro-2-methylphenol (534-52-1)	
dibenz(a,h)anthracene (53-70-3)Log Pow $5.97 - 6.84$ 1,4-dichlorobenzene (106-46-7)BCF fish 1 $214 - 720$ (Salmo gairdneri, Chronic)Log Pow $3.39 - 3.62$ (Experimental value)Bioaccumulative potentialPotential for bioaccumulation ($500 \le BCF \le 5000$).4,6-Dinitro-2-methylphenol ($534-52-1$)BCF fish 1 $0.3 - 2.9$ (6 week(s), Cyprinus carpio, Literature study)	
dibenz(a,h)anthracene (53-70-3)Log Pow $5.97 - 6.84$ 1,4-dichlorobenzene (106-46-7)BCF fish 1 $214 - 720$ (Salmo gairdneri, Chronic)Log Pow $3.39 - 3.62$ (Experimental value)Bioaccumulative potentialPotential for bioaccumulation ($500 ≤ BCF ≤ 5000$).4,6-Dinitro-2-methylphenol ($534-52-1$) $0.3 - 2.9$ (6 week(s), Cyprinus carpio, Literature study)BCF fish 1 $0.3 - 2.9$ (6 week(s), Cyprinus carpio, Literature study)Log Pow $2.12 - 3.1$ (Literature study)	
dibenz(a,h)anthracene (53-70-3)Log Pow $5.97 - 6.84$ 1,4-dichlorobenzene (106-46-7)BCF fish 1 $214 - 720$ (Salmo gairdneri, Chronic)Log Pow $3.39 - 3.62$ (Experimental value)Bioaccumulative potentialPotential for bioaccumulation ($500 \le BCF \le 5000$).4,6-Dinitro-2-methylphenol ($534-52-1$)BCF fish 1 $0.3 - 2.9$ (6 week(s), Cyprinus carpio, Literature study)Log Pow $2.12 - 3.1$ (Literature study)Bioaccumulative potentialLow potential for bioaccumulation (BCF < 500).	
dibenz(a,h)anthracene (53-70-3) Log Pow 5.97 - 6.84 1,4-dichlorobenzene (106-46-7) 214 - 720 (Salmo gairdneri, Chronic) Log Pow 3.39 - 3.62 (Experimental value) Bioaccumulative potential Potential for bioaccumulation (500 ≤ BCF ≤ 5000). 4,6-Dinitro-2-methylphenol (534-52-1) BCF fish 1 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).	
dibenz(a,h)anthracene (53-70-3) Log Pow 5.97 - 6.84 1,4-dichlorobenzene (106-46-7) 214 - 720 (Salmo gairdneri, Chronic) BCF fish 1 214 - 720 (Salmo gairdneri, Chronic) Log Pow 3.39 - 3.62 (Experimental value) Bioaccumulative potential Potential for bioaccumulation (500 ≤ BCF ≤ 5000). 4,6-Dinitro-2-methylphenol (534-52-1) BCF fish 1 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).	
dibenz(a,h)anthracene (53-70-3) Log Pow 5.97 - 6.84 1,4-dichlorobenzene (106-46-7) 214 - 720 (Salmo gairdneri, Chronic) BCF fish 1 214 - 720 (Salmo gairdneri, Chronic) Log Pow 3.39 - 3.62 (Experimental value) Bioaccumulative potential Potential for bioaccumulation (500 ≤ BCF ≤ 5000). 4,6-Dinitro-2-methylphenol (534-52-1) BCF fish 1 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).	
dibenz(a,h)anthracene (53-70-3)Log Pow5.97 - 6.841,4-dichlorobenzene (106-46-7)214 - 720 (Salmo gairdneri, Chronic)Log Pow3.39 - 3.62 (Experimental value)Bioaccumulative potentialPotential for bioaccumulation (500 ≤ BCF ≤ 5000).4,6-Dinitro-2-methylphenol (534-52-1)BCF fish 10.3 - 2.9 (6 week(s), Cyprinus carpio, Literature study)Log Pow2.12 - 3.1 (Literature study)Bioaccumulative potentialLow potential for bioaccumulation (BCF < 500).	
dibenz(a,h)anthracene (53-70-3) Log Pow 5.97 - 6.84 1,4-dichlorobenzene (106-46-7) 214 - 720 (Salmo gairdneri, Chronic) BCF fish 1 214 - 720 (Salmo gairdneri, Chronic) Log Pow 3.39 - 3.62 (Experimental value) Bioaccumulative potential Potential for bioaccumulation (500 ≤ BCF ≤ 5000). 4,6-Dinitro-2-methylphenol (534-52-1) BCF fish 1 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).	
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03/27/2019 EN (English US) 16/30

Safety Data Sheet

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

BCF fish 1	2,6-dinitrotoluene (606-20-2)	
SEP of ther aquatic organisms 1 \$226 (Algae, Biomass)	•	22 (Poecilia reticulata)
Log Pow 1.72 - 2.05		,
Boaccumulative potential Low potential for bioaccumulation (BCF < 500).		
Nexachlorobenzee (118-74-1) BCF fish 1		
BCF fish 1	·	1 (
BCF siths 2		20000 (Salma gairdneri, Toet duration: 8 wooks)
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) Bloaccumulative potential 17000 (Salmo gairdneri) BCF fish 1 17000 (Salmo gairdneri) BCF fish 2 70000 (Pleuronectes platessa, Flow-through system) BCF other aquatic organisms 1 45.36 (Procamberus sp., Flow-through system) BCF other aquatic organisms 2 3000 (Myllus edulis, Flow-through system) BCF other aquatic organisms 2 3000 (Myllus edulis, Flow-through system) BCF other aquatic organisms 2 3000 (Myllus edulis, Flow-through system) BCF other aquatic organisms 2 3000 (Myllus edulis, Flow-through system) BCF other aquatic organisms 2 34 - 4.90 Bloaccumulative potential High potential for bioaccumulation (BCF > 5000). BCF fish 1 1200 (Salmo gairdneri) BCF fish 2 756 mgl (768 h. Pimephales promelas) BCF other aquatic organisms 1 1200 (Salmo gairdneri) BCF fish 2 758 mgl (768 h. Pimephales promelas) BCF other aquatic organisms 1 10000 (240 h. Amphipoda) BCF other aquatic organisms 1 10000 (240 h. Amphipoda) BCF other aquatic organisms 1 10000 (240 h. Amphipoda) BCF other aquatic organisms 1 10000 (240 h. Amphipoda) BCF other aquatic organisms 1 10000 (240 h. Amphipoda) BCF other aquatic other and the state of		
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Bioaccumulative potential High potential for bioaccumulation (BCF > 5000). hexactiorocethane (67-72-1) Fish 1 1 200 (Salmo gairdneri) BCF fish 1 756 mg/l (768 h, Pimephales promelas) Log Pow 3.34 - 4.62 Bioaccumulative potential Potential for bioaccumulation (500 ≤ BCF ≤ 5000). Indeno(1,2,3-cd)pyrene (193-39-5) BCF other aquatic organisms 1 10000 (240 h, Amphipoda) Log Pow 6.6 - 7.7 Bioaccumulative potential High potential for bioaccumulation (BCF > 5000). isophrone (78-59-1) T (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).	·	
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BCF other aquatic organisms 1 1250 (Algae)		

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2,3,4,5,6-pentachlorophenol (87-86-5)	
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	
azobenzene (103-33-3) Ecology - soil	No (test)data on mobility of the substance available. May be harmful to plant growth, blooming and fruit formation.
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.
Bis(2-ethylhexyl) phthalate (117-81-7)	
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.
4-chloroaniline (106-47-8)	
Ecology - soil	No (test)data on mobility of the substance available. Soil contaminant.
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.
1,4-dichlorobenzene (106-46-7)	
Surface tension	0.03 N/m (55 °C)
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.
2,4-dinitrotoluene (121-14-2)	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
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hexachlorobenzene (118-74-1)	
Ecology - soil	Adsorbs into the soil. Not toxic to bees.
hexachlorobuta-1,3-diene (87-68-3)	
Ecology - soil	Soil contaminant.
indeno(1,2,3-cd)pyrene (193-39-5)	
Ecology - soil	Adsorbs into the soil.
isophorone (78-59-1)	
Surface tension	32 mN/m (20 °C)
Log Koc	1.766 (log Koc, QSAR)
Ecology - soil	Highly mobile in soil.
naphthalene (91-20-3)	
Surface tension	0.03 N/m (100 °C)
nitrobenzene (98-95-3)	
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.
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.

12.5. Other adverse effects

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.

Additional information : Handle empty containers with care because residual vapors are flammable. Hazardous waste

due to potential risk of explosion.

Ecology - waste materials : Hazardous waste due to toxicity. 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 ; azobenzene ; benzo[a]anthracene ;

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

; 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; azobenzene; benzo[a]anthracene; benzo[a]pyrene; di-2-

ethylhexylphthalate; benzo[e]acephenanthrylene; benzo[k]fluoranthene; 1,4-dichlorobenzene ; 4-chloroaniline; 2,4-dinitrotoluene; chrysene; 4,6-dinitro-o-cresol; 2,6-dinitrotoluene; 4-

chloro-3-methylphenol; dibenz(a,h)anthracene; naphthalene; nitrobenzene;

hexachloroethane; 2,3,4,5,6-pentachlorophenol; hexachlorobenzene; indeno(1,2,3-cd)pyrene

; 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 : 60 L

(49 CFR 173.27)

DOT Vessel Stowage Location

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

: 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

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., 6.1, III, MARINE

POLLUTANT/ENVIRONMENTALLY HAZARDOUS

UN-No. (IMDG)

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., 6.1, III, ENVIRONMENTALLY HAZARDOUS

UN-No. (IATA) : 2810

Proper Shipping Name (IATA) : Toxic liquid, organic, n.o.s. : 6.1 - Toxic Substances Class (IATA) Packing group (IATA) : III - Minor Danger

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SECTION 15: Regulatory information

15.1. US Federal regulations

azobenzene (103-33-3)	
Listed on the United States TSCA (Toxic Substar	nces Control Act) inventory
benzo[a]anthracene (56-55-3)	
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State	
CERCLA RQ	10 lb
benzo[a]pyrene (50-32-8)	
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State	
CERCLA RQ	1 lb
Benzo(b)fluoranthene (205-99-2)	
Not listed on the United States TSCA (Toxic Subsubject to reporting requirements of United State	
CERCLA RQ	1 lb
benzo[k]fluoranthene (207-08-9)	
Not listed on the United States TSCA (Toxic Substitute Subject to reporting requirements of United State	
CERCLA RQ	5000 lb
bis(2-chloroethyl) ether (111-44-4)	
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State	, ,
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
Bis(2-ethylhexyl) phthalate (117-81-7)	
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	100 lb
4-chloroaniline (106-47-8)	
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State	
CERCLA RQ	1000 lb
4-chloro-3-methylphenol (59-50-7)	
Listed on the United States TSCA (Toxic Substar Not subject to reporting requirements of the United	
CERCLA RQ	5000 lb
chrysene (218-01-9)	
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State	
CERCLA RQ	100 lb
dibenz(a,h)anthracene (53-70-3)	
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State	
CERCLA RQ	1 lb

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1,4-dichlorobenzene (106-46-7)	
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State	
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
4,6-Dinitro-2-methylphenol (534-52-1)	
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State Not subject to reporting requirements of the Unite	s 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
2,4-dinitrotoluene (121-14-2)	
Listed on the United States TSCA (Toxic Substan	
Subject to reporting requirements of United State	s SARA Section 313
Listed on EPA Hazardous Air Pollutant (HAPS)	40.0
CERCLA RQ	10 lb
2,6-dinitrotoluene (606-20-2)	
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State	
CERCLA RQ	100 lb
hexachlorobenzene (118-74-1)	
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	10 lb
hexachlorobuta-1,3-diene (87-68-3)	
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	1 lb
hexachloroethane (67-72-1)	
	nces Control Act) inventory
hexachloroethane (67-72-1) Listed on the United States TSCA (Toxic Substar	nces Control Act) inventory
hexachloroethane (67-72-1) Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State	nces Control Act) inventory
hexachloroethane (67-72-1) Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State Listed on EPA Hazardous Air Pollutant (HAPS)	nces Control Act) inventory s SARA Section 313
hexachloroethane (67-72-1) Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State Listed on EPA Hazardous Air Pollutant (HAPS) EPA TSCA Regulatory Flag CERCLA RQ indeno(1,2,3-cd)pyrene (193-39-5)	nces Control Act) inventory s SARA Section 313 TP - TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule. 100 lb
hexachloroethane (67-72-1) Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State Listed on EPA Hazardous Air Pollutant (HAPS) EPA TSCA Regulatory Flag CERCLA RQ	rices Control Act) inventory s SARA Section 313 TP - TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule. 100 lb rices Control Act) inventory
hexachloroethane (67-72-1) Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State Listed on EPA Hazardous Air Pollutant (HAPS) EPA TSCA Regulatory Flag CERCLA RQ indeno(1,2,3-cd)pyrene (193-39-5) Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State CERCLA RQ	rices Control Act) inventory s SARA Section 313 TP - TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule. 100 lb rices Control Act) inventory
hexachloroethane (67-72-1) Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United States Listed on EPA Hazardous Air Pollutant (HAPS) EPA TSCA Regulatory Flag CERCLA RQ indeno(1,2,3-cd)pyrene (193-39-5) Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United States CERCLA RQ isophorone (78-59-1)	TP - TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule. 100 lb Inces Control Act) inventory Inces Control Act) inventory Inces SARA Section 313 100 lb
hexachloroethane (67-72-1) Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United States Listed on EPA Hazardous Air Pollutant (HAPS) EPA TSCA Regulatory Flag CERCLA RQ indeno(1,2,3-cd)pyrene (193-39-5) Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United States CERCLA RQ isophorone (78-59-1) Listed on the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the Uni	TP - TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule. 100 lb Test Control Act) inventory s SARA Section 313 100 lb
hexachloroethane (67-72-1) Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United States Listed on EPA Hazardous Air Pollutant (HAPS) EPA TSCA Regulatory Flag CERCLA RQ indeno(1,2,3-cd)pyrene (193-39-5) Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United States CERCLA RQ isophorone (78-59-1) Listed on the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United Listed on EPA Hazardous Air Pollutant (HAPS)	TP - TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule. 100 lb Inces Control Act) inventory Is SARA Section 313 100 lb Inces Control Act) inventory Is SARA Section 313
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hexachloroethane (67-72-1) Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United States Listed on EPA Hazardous Air Pollutant (HAPS) EPA TSCA Regulatory Flag CERCLA RQ indeno(1,2,3-cd)pyrene (193-39-5) Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United States CERCLA RQ isophorone (78-59-1) Listed on the United States TSCA (Toxic Substar Not subject to reporting requirements of the United Listed on EPA Hazardous Air Pollutant (HAPS) CERCLA RQ naphthalene (91-20-3)	nces Control Act) inventory s SARA Section 313 TP - TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule. 100 lb nces Control Act) inventory s SARA Section 313 100 lb nces Control Act) inventory ad States SARA Section 313
hexachloroethane (67-72-1) Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United States Listed on EPA Hazardous Air Pollutant (HAPS) EPA TSCA Regulatory Flag CERCLA RQ indeno(1,2,3-cd)pyrene (193-39-5) Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United States CERCLA RQ isophorone (78-59-1) Listed on the United States TSCA (Toxic Substar Not subject to reporting requirements of the United States TSCA (Toxic Substar Not subject to reporting requirements of the United Listed on EPA Hazardous Air Pollutant (HAPS) CERCLA RQ	nces Control Act) inventory s SARA Section 313 TP - TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule. 100 lb nces Control Act) inventory s SARA Section 313 100 lb nces Control Act) inventory ed States SARA Section 313
hexachloroethane (67-72-1) Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United States Listed on EPA Hazardous Air Pollutant (HAPS) EPA TSCA Regulatory Flag CERCLA RQ indeno(1,2,3-cd)pyrene (193-39-5) Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United States CERCLA RQ isophorone (78-59-1) Listed on the United States TSCA (Toxic Substar Not subject to reporting requirements of the United Listed on EPA Hazardous Air Pollutant (HAPS) CERCLA RQ naphthalene (91-20-3) Listed on the United States TSCA (Toxic Substar Not Subject to reporting requirements of the United Listed on EPA Hazardous Air Pollutant (HAPS)	nces Control Act) inventory s SARA Section 313 TP - TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule. 100 lb nces Control Act) inventory s SARA Section 313 100 lb nces Control Act) inventory ed States SARA Section 313

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<u> </u>	-	
nitrobenzene (98-95-3)		
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State		
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	
N-Nitrosodimethylamine (62-75-9)		
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State		
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	
N-Nirosodi-n-propylamine (621-64-7)		
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State		
CERCLA RQ	10 lb	
2,3,4,5,6-pentachlorophenol (87-86-5)		
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State		
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 Substar Subject to reporting requirements of United State		
Subject to reporting requirements of United State		
Subject to reporting requirements of United State Listed on EPA Hazardous Air Pollutant (HAPS)	s SARA Section 313	
Subject to reporting requirements of United State Listed on EPA Hazardous Air Pollutant (HAPS) CERCLA RQ	s SARA Section 313 10 lb nces Control Act) inventory	
Subject to reporting requirements of United State Listed on EPA Hazardous Air Pollutant (HAPS) CERCLA RQ Methylene Chloride (75-09-2) Listed on the United States TSCA (Toxic Substar	s SARA Section 313 10 lb nces Control Act) inventory	
Subject to reporting requirements of United State Listed on EPA Hazardous Air Pollutant (HAPS) CERCLA RQ Methylene Chloride (75-09-2) Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State	s SARA Section 313 10 lb nces Control Act) inventory	

15.2. International regulations

CANADA

azobenzene	(103-33-3)	
azobelizelle i	(100-00-0)	

Listed on the Canadian DSL (Domestic Substances List)

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)

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

Listed on the Canadian DSL (Domestic Substances List)

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4-chloroaniline (106-47-8)

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)

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

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

hexachlorobenzene (118-74-1)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

hexachloroethane (67-72-1)

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)

isophorone (78-59-1)

Listed on the Canadian DSL (Domestic Substances List)

naphthalene (91-20-3)

Listed on the Canadian DSL (Domestic Substances List)

nitrobenzene (98-95-3)

Listed on the Canadian DSL (Domestic Substances List)

N-Nitrosodimethylamine (62-75-9)

Listed on the Canadian NDSL (Non-Domestic Substances List)

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

Listed on the Canadian NDSL (Non-Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

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

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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)

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)

4-chloroaniline (106-47-8)

Listed on IARC (International Agency for Research on Cancer)

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)

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)

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)

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)

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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)

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

azobenzene (10	3-33-3)				
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	6 μg/day	
benzo[a]anthrad	cene (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)fluorar	nthene (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	

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hansa[k]flaran	thone (207.09.0)	**			
	thene (207-08-9)	II.C. Colifernia	II.C. Colifernia	No significant risk lavel	Maximum allawahla
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-chloroethy	yl) 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	
Bis(2-ethylhexy	l) phthalate (117-81-	7)			
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
4-chloroaniline	(106-47-8)				
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	1.5 μg/day	
chrysene (218-0	11-9)				
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)anth	racene (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	
	1		1		

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1,4-dichloroben	zene (106-46-7)				
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	
2,4-dinitrotoluer	ne (121-14-2)				
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	Yes	2 μg/day	
2,6-dinitrotoluer	ne (606-20-2)				
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	Yes		
hexachlorobenz		ı			
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	
hexachlorobuta	-1,3-diene (87-68-3)				
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		
hexachloroetha	ne (67-72-1)				
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)
Yes	No	No	No	20 μg/day	
indeno(1,2,3-cd)	pyrene (193-39-5)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		
naphthalene (91	-20-3)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
	1			1	

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nitrobenzene (9	8-95-3)				
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	Yes		
N-Nitrosodimet	nylamine (62-75-9)				
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	0.04 μg/day	
N-Nirosodi-n-pr	opylamine (621-64-7)			
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	
2,3,4,5,6-pentac	hlorophenol (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-trichloropl	nenol (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 : 03/27/2019

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None.

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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

Phenova US SDS REV

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