

Safety Data Sheet

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

Date of issue: 12/30/2019 Revision date: 12/30/2019 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : Custom BNA Mix Product code AL0-130974

Recommended use and restrictions on use

No additional information available

Phenova

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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

Reproductive toxicity H360 May damage fertility or the unborn child

Category 1B

Specific target organ H370 Causes damage to organs

toxicity (single exposure)

Category 1

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

H370 - Causes damage to organs

P201 - Obtain special instructions before use. Precautionary statements (GHS US)

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

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	92.1
methanol (Component)	(CAS-No.) 67-56-1	3
atrazine (Component)	(CAS-No.) 1912-24-9	0.1
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
Benzo(b)fluoranthene (Component)	(CAS-No.) 205-99-2	0.1
benzo[k]fluoranthene (Component)	(CAS-No.) 207-08-9	0.1
4-chloroaniline (Component)	(CAS-No.) 106-47-8	0.1
bis(2-chloroethyl) ether (Component)	(CAS-No.) 111-44-4	0.1
4-chloro-3-methylphenol (Component)	(CAS-No.) 59-50-7	0.1
chrysene (Component)	(CAS-No.) 218-01-9	0.1
dibenz(a,h)anthracene (Component)	(CAS-No.) 53-70-3	0.1
1,4-dichlorobenzene (Component)	(CAS-No.) 106-46-7	0.1
4,6-Dinitro-2-methylphenol (Component)	(CAS-No.) 534-52-1	0.1
2,4-dinitrotoluene (Component)	(CAS-No.) 121-14-2	0.1
2,6-dinitrotoluene (Component)	(CAS-No.) 606-20-2	0.1
Bis(2-ethylhexyl) phthalate (Component)	(CAS-No.) 117-81-7	0.1
hexachlorobenzene (Component)	(CAS-No.) 118-74-1	0.1
hexachlorobuta-1,3-diene (Component)	(CAS-No.) 87-68-3	0.1
hexachloroethane (Component)	(CAS-No.) 67-72-1	0.1
indeno(1,2,3-cd)pyrene (Component)	(CAS-No.) 193-39-5	0.1

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Name	Product identifier	Conc.
isophorone (Component)	(CAS-No.) 78-59-1	0.1
naphthalene (Component)	(CAS-No.) 91-20-3	0.1
nitrobenzene (Component)	(CAS-No.) 98-95-3	0.1
N-Nitrosodimethylamine (Component)	(CAS-No.) 62-75-9	0.1
N-Nirosodi-n-propylamine (Component)	(CAS-No.) 621-64-7	0.1
2,3,4,5,6-pentachlorophenol (Component)	(CAS-No.) 87-86-5	0.1
o-toluidine (Component)	(CAS-No.) 95-53-4	0.1
2,4,6-trichlorophenol (Component)	(CAS-No.) 88-06-2	0.1

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

SECTION 4: First-aid measures

4.1.	Description of fi	rst 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.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

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 Incompatible materials : Strong bases. Strong acids.

: Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

Custom BNA 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

atrazine (1912-24-9)		
ACGIH	Local name	Atrazine
ACGIH	ACGIH TWA (mg/m³)	2 mg/m³ (Inhalable fraction)
ACGIH	Remark (ACGIH)	CNS convul; 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

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

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bis(2-chloroethyl) etl		
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
4-chloro-3-methylph	enol (59-50-7)	
Not applicable		
chrysene (218-01-9)		
Not applicable		
dibenz(a,h)anthracer	ne (53-70-3)	
Not applicable	(400.40.7)	
1,4-dichlorobenzene ACGIH	(106-46-7) 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		75 ppm
	OSHA PEL (STEL) (mg/m³)	''
OSHA	OSHA PEL (STEL) (mg/m³)	675 mg/m³
OSHA	OSHA PEL (STEL) (ppm)	110 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
4,6-Dinitro-2-methylp		D: "
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
2,4-dinitrotoluene (12	,	
ACGIH	ACGIH TWA (mg/m³)	0.2 mg/m³
2,6-dinitrotoluene (60		
ACGIH	ACGIH TWA (mg/m³)	0.2 mg/m³
Bis(2-ethylhexyl) pht		
ACGIH	Local name	Di(2-ethylhexyl)phthalate (DEHP)
ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
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
hexachlorobenzene	(118-74-1)	
ACGIH		Hexachlorobenzene

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hexachlorobenzene	e (118-74-1)	
ACGIH	ACGIH TWA (mg/m³)	0.002 mg/m³
ACGIH	Remark (ACGIH)	Porphyrin eff; Skin dam; CNS impair
ACGIH	Regulatory reference	ACGIH 2018
hexachlorobuta-1,3	-diene (87-68-3)	
ACGIH	Local name	Hexachlorobutadiene
ACGIH	ACGIH TWA (ppm)	0.02 ppm
ACGIH	Remark (ACGIH)	Kidney dam
ACGIH	Regulatory reference	ACGIH 2018
hexachloroethane (67-72-1)	
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)pyr	rene (193-39-5)	*
Not applicable		
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)	
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 unde 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	5-3)	
ACGIH	Local name	Nitrobenzene
ACGIH	ACGIH TWA (ppm)	1 ppm (Nitrobenzene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)

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nitrobenzene (98-95	i-3)	
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-Nitrosodimethyla	mine (62-75-9)	
Not applicable	,	
N-Nirosodi-n-propy	lamine (621-64-7)	
Not applicable		
2,3,4,5,6-pentachlor	T I	
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
o-toluidine (95-53-4)		
ACGIH	ACGIH TWA (ppm)	2 ppm (o-Toluidine; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
OSHA	OSHA PEL (TWA) (mg/m³)	22 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	5 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
2,4,6-trichloropheno	ol (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/m³)	260 mg/m³
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

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

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Wear appropriate mask

Other information:

Odor threshold

рΗ

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties				
	9 1	Information on	hasic physical an	d chamical properties

Physical state : Liquid

: characteristic: No data available: No data available

Colorless

Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Flash point : No data available
Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : Non flammable. : No data available Vapor pressure Relative vapor density at 20 °C No data available : No data available Relative density Solubility : No data available : No data available Log Pow : No data available Auto-ignition temperature Decomposition temperature : No data available : No data available Viscosity, kinematic

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

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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
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h

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

bis(2-chloroethyl) ether (111-44-4)	
LD50 oral rat	75 mg/kg body weight (Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	9 mg/kg body weight (24 h, Rabbit, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	0.33 mg/l (4 h, Rat, Experimental value, Inhalation (mist))
ATE US (oral)	5 mg/kg body weight
ATE US (dermal)	9 mg/kg body weight
ATE US (gases)	100 ppmV/4h
ATE US (vapors)	0.33 mg/l/4h
ATE US (dust, mist)	0.33 mg/l/4h

4-chloro-3-methylphenol (59-50-7)	
LD50 oral rat	1830 mg/kg body weight (Rat, Male, Experimental value, Oral)
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
ATE US (oral)	1830 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight

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

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1,4-dichlorobenzene (106-46-7)	
ATE US (oral)	500 mg/kg body weight
	300 Hig/kg body weight
4,6-Dinitro-2-methylphenol (534-52-1)	7. (0
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
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
, ,	
Bis(2-ethylhexyl) phthalate (117-81-7) LD50 dermal rabbit	10000 mallia haduuvaisht (24 h. Dahhit Evrasimantal valua Darmal)
	19800 mg/kg body weight (24 h, Rabbit, Experimental value, Dermal)
ATE US (dermal)	19800 mg/kg body weight
hexachlorobenzene (118-74-1)	
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)	4500 "
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)
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nitrobenzene (98-95-3)	
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-	
LC50 inhalation rat (mg/l)	355 mg/m³ (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
o-toluidine (95-53-4)	
LD50 oral rat	670 mg/kg (Rat)
LD50 dermal rabbit	3250 mg/kg (Rabbit)
ATE US (oral)	670 mg/kg body weight
ATE US (dermal)	3250 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
2,4,6-trichlorophenol (88-06-2)	
LD50 oral rat	820 mg/kg (Rat, Literature study, Oral)
ATE US (oral)	820 mg/kg body weight
methanol (67-56-1)	
LD50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight cevidence)
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
Methylene Chloride (75-09-2)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimenta value, Oral)
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)
kin corrosion/irritation	: Not classified
KIII GOITGSIOH/IITIKAUGIT	: Not classified

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

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity : May cause cancer.

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
4-chloroaniline (106-47-8)	
IARC group	2B - Possibly carcinogenic to humans
bis(2-chloroethyl) ether (111-44-4)	
IARC group	3 - Not classifiable
-11	
dibenz(a,h)anthracene (53-70-3) National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
	Reasonably anticipated to be numan Carcinogen
1,4-dichlorobenzene (106-46-7)	Percentular anticipated to be Human Carolingan
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
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
Bis(2-ethylhexyl) phthalate (117-81-7)	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
hexachlorobenzene (118-74-1)	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
hexachloroethane (67-72-1)	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
indeno(1,2,3-cd)pyrene (193-39-5)	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
naphthalene (91-20-3)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
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
o-toluidine (95-53-4)	
IARC group	1 - Carcinogenic to humans

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o-toluidine (95-53-4)		
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen, Known Human Carcinogens	
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.	
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.

SECTION 12: Ecological information

12.1. Toxicity

azobenzene (103-33-3)		
LC50 fish 1	< 1 mg/l (Pisces)	
benzo[a]anthracene (56-55-3)	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)	
4-chloroaniline (106-47-8)		
LC50 fish 1	2.4 mg/l (Other, 96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value)	
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-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)	

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Custom BNA Mix

Persistence and degradability

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1.12 mg/l (96 h, Salmo gairdneri, Flow-through system)
0.7 mg/l (48 h, Daphnia magna, Measured concentration)
0.066 mg/l (96 h, Salmo gairdneri, Literature study)
0.145 mg/l (48 h, Daphnia magna, Literature study)
0.140 mg/r (40 m, Dapinna magna, Enteratare stady)
105 50 11/001 5: 11
18.5 - 50 mg/l (96 h, Pimephales promelas)
21.7 mg/l (48 h, Daphnia magna, Static system)
2.3 mg/l (96 h, Salmo gairdneri)
> 0.03 mg/l (24 h, Daphnia magna)
0.25 mg/l (96 h, Salmo gairdneri)
0.21 mg/l (96 h, Lymnaea sp.)
0.84 mg/l (96 h, Salmo gairdneri)
1.4 mg/l (Daphnia magna)
228 mg/l (Other, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental
value, Lethal)
254 mg/l (DIN 38412-11, 24 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)
2.16 mg/l (EC50; 48 h; Daphnia magna)
0.11 mg/l (LC50; 96 h; Oncorhynchus mykiss)
0.4 mg/l (EC50; 72 h; Skeletonema costatum)
4.3 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 48 h; Oryzias latipes)
35 mg/l (Other, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
0.052 mg/l (96 h, Salmo gairdneri)
0.01 - 0.36 mg/l (48 h, Daphnia magna)
68 - 100 mg/l (LC50; 96 h; Leuciscus idus)
0.52 mg/l (EC50; 48 h)
0.73 mg/l (96 h, Salmo gairdneri, Literature study)
0.69 mg/l (48 h, Daphnia magna, Literature study)
15400 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)
> 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
10800 mg/l (LC50; 96 h; Salmo gairdneri)
1
103 mg/l /06 h. Pimenhalas prometas Flow through system. Fresh water Evperimental value)
193 mg/l (96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value) 168.2 mg/l (48 h, Daphnia magna)

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Not established.

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atrazine (1912-24-9)	
Persistence and degradability	Biodegradability in soil: no data available. Not readily biodegradable in water.
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 O₂/g substance
h (125)	
benzo[k]fluoranthene (207-08-9)	Non degradable in the sail. Not readily biodegradable in water
Persistence and degradability ThOD	Non degradable in the soil. Not readily biodegradable in water.
THEB	2.92 g O₂/g substance
4-chloroaniline (106-47-8)	
Persistence and degradability	Non degradable in the soil. Inherently biodegradable. Not readily biodegradable in water.
bis(2-chloroethyl) ether (111-44-4)	
Persistence and degradability	Not readily biodegradable in water.
4-chloro-3-methylphenol (59-50-7)	
Persistence and degradability	Biodegradable in the soil. Not readily biodegradable in water. Inherently biodegradable.
Chemical oxygen demand (COD)	1.5 - 1.8 g 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)	
Persistence and degradability	Non degradable in the soil. Readily biodegradable in water.
ThOD	1.52 g O₂/g substance
BOD (% of ThOD)	0.65 (Calculated value)
4,6-Dinitro-2-methylphenol (534-52-1)	
Persistence and degradability	Not readily biodegradable in water.
2,4-dinitrotoluene (121-14-2)	
Persistence and degradability	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.
Bis(2-ethylhexyl) phthalate (117-81-7)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
hexachlorobenzene (118-74-1)	
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water. Not easily biodegradable in water in anaerobic conditions.
hexachlorobuta-1,3-diene (87-68-3)	
Persistence and degradability	Biodegradability in soil: no data available. Readily biodegradable in water.

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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
	2.70 g O2g substance
naphthalene (91-20-3)	Destillabilitate madellabilitate Fermina estillacente in contra Diede madellabilitation de
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)	
ThOD	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
Biochemical oxygen demand (BOD)	soil.
	0 g O₂/g substance
ThOD	1.95 g O₂/g substance
BOD (% of ThOD)	0
N-Nitrosodimethylamine (62-75-9)	
Persistence and degradability	Not readily biodegradable in water. Photolysis in water. Photolysis in the air.
2,3,4,5,6-pentachlorophenol (87-86-5)	
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water.
o-toluidine (95-53-4)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Photolysis in the air.
Biochemical oxygen demand (BOD)	1.43 g O ₂ /g substance
ThOD	2.54 g O₂/g substance
BOD (% of ThOD)	0.56
2,4,6-trichlorophenol (88-06-2)	
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.
methanol (67-56-1)	, , ,
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O₂/g substance
Chemical oxygen demand (COD)	1.42 g O₂/g substance
	1.42 y Ozy substance
ThOD	
ThOD	1.5 g O₂/g substance
BOD (% of ThOD)	1.5 g O ₂ /g substance 0.8 (Literature study)
BOD (% of ThOD) Methylene Chloride (75-09-2)	0.8 (Literature study)
BOD (% of ThOD)	
BOD (% of ThOD) Methylene Chloride (75-09-2)	0.8 (Literature study)
BOD (% of ThOD) Methylene Chloride (75-09-2) Persistence and degradability	0.8 (Literature study)
BOD (% of ThOD) Methylene Chloride (75-09-2) Persistence and degradability 2.3. Bioaccumulative potential	0.8 (Literature study)
BOD (% of ThOD) Methylene Chloride (75-09-2) Persistence and degradability 2.3. Bioaccumulative potential Custom BNA Mix	0.8 (Literature study) Biodegradable in the soil. Not readily biodegradable in water.
BOD (% of ThOD) Methylene Chloride (75-09-2) Persistence and degradability 2.3. Bioaccumulative potential Custom BNA Mix Bioaccumulative potential atrazine (1912-24-9) BCF fish 1	0.8 (Literature study) Biodegradable in the soil. Not readily biodegradable in water. Not established. 3 - 4 (Cyprinus carpio)
BOD (% of ThOD) Methylene Chloride (75-09-2) Persistence and degradability 2.3. Bioaccumulative potential Custom BNA Mix Bioaccumulative potential atrazine (1912-24-9) BCF fish 1 BCF fish 2	0.8 (Literature study) Biodegradable in the soil. Not readily biodegradable in water. Not established. 3 - 4 (Cyprinus carpio) 3 - 10 (Pisces)
BOD (% of ThOD) Methylene Chloride (75-09-2) Persistence and degradability 2.3. Bioaccumulative potential Custom BNA Mix Bioaccumulative potential atrazine (1912-24-9) BCF fish 1	0.8 (Literature study) Biodegradable in the soil. Not readily biodegradable in water. Not established. 3 - 4 (Cyprinus carpio)

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atrazine (1912-24-9)		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
·	Low potential for bloaccumulation (Bot 1 500).	
azobenzene (103-33-3)	2.02	
Log Pow Bioaccumulative potential	3.82 Low potential for bioaccumulation (Log Kow < 4).	
	Low potential for bloaccumulation (Log Row < 4).	
benzo[a]anthracene (56-55-3)	070 (701 1 1 1 1 1 1 1	
BCF fish 1	350 (72 h, Leuciscus idus)	
BCF other aquatic organisms 1	1106 (24 h, Daphnia pulex)	
BCF other aquatic organisms 2	18000 (192 h, Crassostrea sp.)	
Log Pow	5.61 - 5.79	
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).	
benzo[a]pyrene (50-32-8)		
BCF fish 1	480 (72 h, Leuciscus idus)	
BCF fish 2	70.7 (168 h, Salmo salar, Eggs)	
BCF other aquatic organisms 1	3000 (192 h, Crassostrea sp.)	
BCF other aquatic organisms 2	1.5 (24 h, Daphnia magna)	
Log Pow	5.97 - 6.06	
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).	
Benzo(b)fluoranthene (205-99-2)		
BCF other aquatic organisms 1	2800 (168 h, Lamellibranchiata)	
Log Pow	6.57	
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).	
benzo[k]fluoranthene (207-08-9)		
BCF fish 1	8750 (Pisces, QSAR)	
BCF other aquatic organisms 1	0.0013 mg/kg (Algae, Dry weight)	
BCF other aquatic organisms 2	37000 (Mytilus edulis)	
Log Pow	6.84	
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).	
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, Experimental value, Fresh weight)	
Log Pow	1.87 (Experimental value, Equivalent or similar to OECD 117)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
bis(2-chloroethyl) ether (111-44-4)		
BCF fish 1	11 l/kg (Equivalent or similar to OECD 305, 14 day(s), Lepomis macrochirus, Semi-static system, Fresh water, Experimental value)	
Log Pow	1.12 (Experimental value, Equivalent or similar to OECD 107, 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
4-chloro-3-methylphenol (59-50-7)		
BCF fish 1	5.5 - 13 (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)	
Log Pow	5.81 - 5.86 (Experimental value)	
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).	
dibenz(a,h)anthracene (53-70-3)		
Log Pow 5.97 - 6.84		
1,4-dichlorobenzene (106-46-7)		
BCF fish 1	214 - 720 (Salmo gairdneri, Chronic)	
Log Pow	3.39 - 3.62 (Experimental value)	
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).	
Disassarialative potential	. otomas for biodocumulation (000 – 201 – 0000).	

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4,6-Dinitro-2-methylphenol (534-52-1) BCF fish 1 0.3 - 2.9 (6 week(s), Cyprinus carpio, Literature study)						
2.12 - 3.1 (Literature study)						
Low potential for bioaccumulation (BCF < 500).						
T (* * * * * * * * * * * * * * * * * *						
102.8 (336 h, Lepomis macrochirus)						
16 - 204 (Poecilia reticulata)						
13 (96 h, Daphnia magna)						
58 (96 h, Annelida)						
1.98 - 2.8						
Low potential for bioaccumulation (BCF < 500).						
T (* * * * * * * * * * * * * * * * * *						
22 (Poecilia reticulata)						
5225 (Algae, Biomass)						
1.72 - 2.05						
Low potential for bioaccumulation (BCF < 500).						
155 - 886 (56 day(s), Pimephales promelas, Literature study)						
7.68 (Experimental value, Other)						
High potential for bioaccumulation (Log Kow > 5).						
Thigh potential for bloaccumulation (Log Now > 3).						
00000 (0.1 1.7 1 0 1						
20000 (Salmo gairdneri, Test duration: 8 weeks)						
30000 (Cyprinus carpio, Test duration: 8 weeks)						
25000 (Algae)						
1130 (720 h, Daphnia magna)						
5.73 - 6.39 (Experimental value)						
High potential for bioaccumulation (BCF > 5000).						
1 d = 200 (0 d = 1 d = 1)						
17000 (Salmo gairdneri)						
7000 (Pleuronectes platessa, Flow-through system)						
45.36 (Procambarus sp., Flow-through system)						
3000 (Mytilus edulis, Flow-through system)						
3.74 - 4.90 High potential for bioaccumulation (BCF > 5000).						
High potential for bloaccumulation (BCF > 5000).						
1						
1200 (Salmo gairdneri)						
756 mg/l (768 h, Pimephales promelas)						
3.34 - 4.62						
Potential for bioaccumulation (500 ≤ BCF ≤ 5000).						
10000 (240 h, Amphipoda)						
6.6 - 7.7						
High potential for bioaccumulation (BCF > 5000).						
7 (Other, 14 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Fresh weight)						
1.67 (Experimental value, Equivalent or similar to OECD 107, 20 °C)						
1.67 (Experimental value, Equivalent or similar to OECD 107, 20 °C)						
1.67 (Experimental value, Equivalent or similar to OECD 107, 20 °C) Low potential for bioaccumulation (BCF < 500).						
Low potential for bioaccumulation (BCF < 500).						

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nitrobenzene (98-95-3)				
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).			
N-Nitrosodimethylamine (62-75-9)				
Log Pow	-0.770.57			
Bioaccumulative potential	Bioaccumulation: not applicable.			
N-Nirosodi-n-propylamine (621-64-7)				
Log Pow	1.31 - 1.36			
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).			
2,3,4,5,6-pentachlorophenol (87-86-5)				
BCF fish 1	770 (768 h, Pimephales promelas)			
BCF fish 2	39 - 224 (Cyprinus carpio, Test duration: 8 weeks)			
BCF other aquatic organisms 1	1250 (Algae)			
Log Pow	4.07 - 5.19			
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).			
o-toluidine (95-53-4)				
BCF fish 1	2.2 (BCF; 48 h)			
BCF other aquatic organisms 1	5.9 (BCF)			
Log Pow	1.29 - 1.4			
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).			
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).			
methanol (67-56-1)				
BCF fish 1	< 10 (BCF; 72 h; Leuciscus idus)			
Log Pow	-0.77 (Experimental value; Other)			
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).			
Methylene Chloride (75-09-2)				
BCF fish 1	2 - 40 (OECD 305: Bioconcentration: Flow-Through Fish Test, 6 week(s), Cyprinus carpio, Semi-static system, Fresh water, Experimental value, GLP)			
Log Pow	1.25 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)			
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).			
12.4. Mobility in soil				
<u> </u>				
atrazine (1912-24-9) Ecology - soil	Toxic to flora. Not toxic to bees.			
0,	TONIO IO HOLE. NOL IONIO IO DEES.			
azobenzene (103-33-3)	No (toot) data on mability of the substance available. May be harmful to plant such the provider			
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.			

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4 phloroppiling (406 47 9)						
4-chloroaniline (106-47-8) Ecology - soil No (test)data on mobility of the substance available. Soil contaminant.						
•	No (lest)data on mobility of the substance available. Soil contaminant.					
bis(2-chloroethyl) ether (111-44-4)	0.000 NV (40.00)					
Surface tension	0.038 N/m (19 °C)					
Log Koc	1.88 (log Koc, Experimental value)					
Ecology - soil	Highly mobile in soil.					
4-chloro-3-methylphenol (59-50-7)						
Surface tension	Not applicable (solid)					
Log Koc	2.69 (log Koc)					
Ecology - soil	Low potential for adsorption in soil.					
chrysene (218-01-9)						
Ecology - soil	Adsorbs into the soil.					
dibenz(a,h)anthracene (53-70-3)						
Ecology - soil	Adsorbs into the soil.					
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.					
	This is a final to plain growing and harronnears.					
Bis(2-ethylhexyl) phthalate (117-81-7)	0.000 NV (00.00)					
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.					
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)	Nie (teet) dete en med ilite ef the enhance en ellette					
Ecology - soil	No (test)data on mobility of the substance available.					
o-toluidine (95-53-4)						
Surface tension	0.043 N/m					
2,4,6-trichlorophenol (88-06-2)						
Ecology - soil	No (test)data on mobility of the substance available.					
methanol (67-56-1)						
Surface tension	0.023 N/m (20 °C)					
Log Koc	Koc,PCKOCWIN v1.66; 1; Calculated value					

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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

Custom BNA Mix	
atrazine (1912-24-9)	
azobenzene (103-33-3)	
azobenizene (100-30-3)	
benzo[a]anthracene (56-55-3)	
benzo[a]pyrene (50-32-8)	
Benzo(b)fluoranthene (205-99-2)	
hanzalldivaranthana (207.09.0)	
benzo[k]fluoranthene (207-08-9)	
4-chloroaniline (106-47-8)	
bis(2-chloroethyl) ether (111-44-4)	
4-chloro-3-methylphenol (59-50-7)	
i dinore e meanyiphener (ee ee r)	
(040.04.0)	
chrysene (218-01-9)	
dibenz(a,h)anthracene (53-70-3)	
1,4-dichlorobenzene (106-46-7)	
1,4-alcilloropelizelle (100-40-7)	
1,4-dicilioropenzene (100-40-7)	
4,6-Dinitro-2-methylphenol (534-52-1)	
4,6-Dinitro-2-methylphenol (534-52-1)	
4,6-Dinitro-2-methylphenol (534-52-1) 2,4-dinitrotoluene (121-14-2)	
4,6-Dinitro-2-methylphenol (534-52-1)	
4,6-Dinitro-2-methylphenol (534-52-1) 2,4-dinitrotoluene (121-14-2) 2,6-dinitrotoluene (606-20-2)	
4,6-Dinitro-2-methylphenol (534-52-1) 2,4-dinitrotoluene (121-14-2)	
4,6-Dinitro-2-methylphenol (534-52-1) 2,4-dinitrotoluene (121-14-2) 2,6-dinitrotoluene (606-20-2)	
4,6-Dinitro-2-methylphenol (534-52-1) 2,4-dinitrotoluene (121-14-2) 2,6-dinitrotoluene (606-20-2)	
4,6-Dinitro-2-methylphenol (534-52-1) 2,4-dinitrotoluene (121-14-2) 2,6-dinitrotoluene (606-20-2) Bis(2-ethylhexyl) phthalate (117-81-7)	
4,6-Dinitro-2-methylphenol (534-52-1) 2,4-dinitrotoluene (121-14-2) 2,6-dinitrotoluene (606-20-2) Bis(2-ethylhexyl) phthalate (117-81-7) hexachlorobenzene (118-74-1)	
4,6-Dinitro-2-methylphenol (534-52-1) 2,4-dinitrotoluene (121-14-2) 2,6-dinitrotoluene (606-20-2) Bis(2-ethylhexyl) phthalate (117-81-7)	
4,6-Dinitro-2-methylphenol (534-52-1) 2,4-dinitrotoluene (121-14-2) 2,6-dinitrotoluene (606-20-2) Bis(2-ethylhexyl) phthalate (117-81-7) hexachlorobenzene (118-74-1) hexachlorobuta-1,3-diene (87-68-3)	
4,6-Dinitro-2-methylphenol (534-52-1) 2,4-dinitrotoluene (121-14-2) 2,6-dinitrotoluene (606-20-2) Bis(2-ethylhexyl) phthalate (117-81-7) hexachlorobenzene (118-74-1)	
4,6-Dinitro-2-methylphenol (534-52-1) 2,4-dinitrotoluene (121-14-2) 2,6-dinitrotoluene (606-20-2) Bis(2-ethylhexyl) phthalate (117-81-7) hexachlorobenzene (118-74-1) hexachlorobuta-1,3-diene (87-68-3) hexachloroethane (67-72-1)	
4,6-Dinitro-2-methylphenol (534-52-1) 2,4-dinitrotoluene (121-14-2) 2,6-dinitrotoluene (606-20-2) Bis(2-ethylhexyl) phthalate (117-81-7) hexachlorobenzene (118-74-1) hexachlorobuta-1,3-diene (87-68-3)	
4,6-Dinitro-2-methylphenol (534-52-1) 2,4-dinitrotoluene (121-14-2) 2,6-dinitrotoluene (606-20-2) Bis(2-ethylhexyl) phthalate (117-81-7) hexachlorobenzene (118-74-1) hexachlorobuta-1,3-diene (87-68-3) hexachloroethane (67-72-1)	
4,6-Dinitro-2-methylphenol (534-52-1) 2,4-dinitrotoluene (121-14-2) 2,6-dinitrotoluene (606-20-2) Bis(2-ethylhexyl) phthalate (117-81-7) hexachlorobenzene (118-74-1) hexachlorobuta-1,3-diene (87-68-3) hexachloroethane (67-72-1) indeno(1,2,3-cd)pyrene (193-39-5)	
4,6-Dinitro-2-methylphenol (534-52-1) 2,4-dinitrotoluene (121-14-2) 2,6-dinitrotoluene (606-20-2) Bis(2-ethylhexyl) phthalate (117-81-7) hexachlorobenzene (118-74-1) hexachlorobuta-1,3-diene (87-68-3) hexachloroethane (67-72-1)	

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141 1 (04 00 0)	
naphthalene (91-20-3)	_
nitrobenzene (98-95-3)	
The obenzene (30-30-0)	
N-Nitrosodimethylamine (62-75-9)	
N-Nirosodi-n-propylamine (621-64-7)	
2,3,4,5,6-pentachlorophenol (87-86-5)	
o-toluidine (95-53-4)	
2,4,6-trichlorophenol (88-06-2)	
methanol (67-56-1)	
Methylene Chloride (75-09-2)	

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN2810 Toxic, liquids, organic, n.o.s. (methanol ; atrazine ; benzo[a]pyrene ; 4-chloroaniline ;

4-chloro-3-methylphenol; di-2-ethylhexylphthalate; 4,6-dinitro-o-cresol; o-toluidine), 6.1, III

UN-No.(DOT) : UN2810

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

methanol; atrazine; benzo[a]pyrene; 4-chloroaniline; 4-chloro-3-methylphenol; di-2-

ethylhexylphthalate; 4,6-dinitro-o-cresol; o-toluidine

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

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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 Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

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. (methanol; atrazine; benzo[a]pyrene; 4-

chloroaniline; 4-chloro-3-methylphenol; di-2-ethylhexylphthalate; 4,6-dinitro-o-cresol; o-

toluidine), 6.1, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

UN-No. (IMDG) : 2810

Proper Shipping Name (IMDG) : TOXIC LIQUID, ORGANIC, N.O.S.

Class (IMDG) : 6.1 - Toxic substances

Packing group (IMDG) : III - substances presenting low danger

Air transport

Transport document description (IATA) : UN 2810 Toxic liquid, organic, n.o.s. (methanol; atrazine; benzo[a]pyrene; 4-chloroaniline; 4-

chloro-3-methylphenol; di-2-ethylhexylphthalate; 4,6-dinitro-o-cresol; o-toluidine), 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

atrazine (1912-24-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

azobenzene (103-33-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

CERCLA RQ 10 lb

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hanzalalnyrana (EQ 22.9)				
benzo[a]pyrene (50-32-8)	page Central Act inventory			
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State	s SARA Section 313			
CERCLA RQ	1 lb			
Benzo(b)fluoranthene (205-99-2)				
Not listed on the United States TSCA (Toxic Subs Subject to reporting requirements of United State				
CERCLA RQ	1 lb			
benzo[k]fluoranthene (207-08-9)				
Not listed on the United States TSCA (Toxic Subs Subject to reporting requirements of United State				
CERCLA RQ	5000 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			
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			
4-chloro-3-methylphenol (59-50-7)				
Listed on the United States TSCA (Toxic Substan				
Not subject to reporting requirements of the Unite				
CERCLA RQ	5000 lb			
chrysene (218-01-9)				
Listed on the United States TSCA (Toxic Substan				
Subject to reporting requirements of United State CERCLA RQ	100 lb			
	100 10			
dibenz(a,h)anthracene (53-70-3)				
Listed on the United States TSCA (Toxic Substan Subject to reporting requirements of United State				
CERCLA RQ	1 lb			
1,4-dichlorobenzene (106-46-7) Listed on the United States TSCA (Toxic Substan	page Control Act inventory			
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				

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ccording to Federal Register / Vol. 77, No. 58 / Monday, M	and 20, 2012 / Naies and Negulations				
2,4-dinitrotoluene (121-14-2)					
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					
2,6-dinitrotoluene (606-20-2)					
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State					
CERCLA RQ	100 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				
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)					
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	TP - TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule.				
CERCLA RQ	100 lb				
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	100 lb				
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	5000 lb				
naphthalene (91-20-3)					
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State					
Listed on EPA Hazardous Air Pollutant (HAPS)					
CERCLA RQ	100 lb				
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				

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cording to Federal Register / Vol. 77, No. 56 / Monday, N	naich 20, 2012 / Rules and Regulations				
N-Nitrosodimethylamine (62-75-9)					
Listed on the United States TSCA (Toxic Substate Subject to reporting requirements of United States					
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 Substan Subject to reporting requirements of United States					
CERCLA RQ	10 lb				
2,3,4,5,6-pentachlorophenol (87-86-5)					
Listed on the United States TSCA (Toxic Substate Subject to reporting requirements of United States Subject to reporting requirements of United States Subject to reporting requirements of United States Subject to report					
Listed on EPA Hazardous Air Pollutant (HAPS)	10 11				
CERCLA RQ 10 lb					
o-toluidine (95-53-4)					
Listed on the United States TSCA (Toxic Substated Subject to reporting requirements of United States	, ,				
Listed on EPA Hazardous Air Pollutant (HAPS)					
CERCLA RQ	100 lb				
2,4,6-trichlorophenol (88-06-2)					
Listed on the United States TSCA (Toxic Substan Subject to reporting requirements of United State					
Listed on EPA Hazardous Air Pollutant (HAPS)					
CERCLA RQ	10 lb				
methanol (67-56-1)					
Listed on the United States TSCA (Toxic Substate Subject to reporting requirements of United States					
Listed on EPA Hazardous Air Pollutant (HAPS)					
CERCLA RQ	5000 lb				
Methylene Chloride (75-09-2)					
Listed on the United States TSCA (Toxic Substate Subject to reporting requirements of United States					
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

atrazine	(1912-24-9)	

Listed on the Canadian DSL (Domestic Substances List)

azobenzene (103-33-3)

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)

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4-chloroaniline (106-47-8)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

4-chloro-3-methylphenol (59-50-7)

Listed on the Canadian DSL (Domestic Substances List)

chrysene (218-01-9)

Listed on the Canadian DSL (Domestic Substances List)

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

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

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)

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

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)

o-toluidine (95-53-4)

Listed on the Canadian DSL (Domestic Substances List)

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

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

methanol (67-56-1)

Listed on the Canadian DSL (Domestic Substances List)

Methylene Chloride (75-09-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

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National regulations

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

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

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

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

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

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

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

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

4-chloroaniline (106-47-8)

Listed on IARC (International Agency for Research on Cancer)

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

Listed on EPA Hazardous Air Pollutant (HAPS)

chrysene (218-01-9)

Listed on IARC (International Agency for Research on Cancer)

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

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

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)

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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)

o-toluidine (95-53-4)

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)

methanol (67-56-1)

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

atrazine (1912-24-9)					
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)
No	Yes	Yes	Yes		100 μg/day (oral)
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	

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benzo[a]anthrac	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)fluoran	thene (205-99-2)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	0.096 μg/day	
benzo[k]fluoran	thene (207-08-9)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		
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	
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	
chrysene (218-0	1-9)				
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	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)
List	·				

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4 4 diablanaban	(40C 4C 7)				
1,4-dichloroben		110 0 115	110 0 115	N	
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		
	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
hexachlorobenz	ene (118-74-1)				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,
hexachlorobenz 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)	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,
U.S California - Proposition 65 - Carcinogens	U.S California - Proposition 65 - Developmental	Proposition 65 - Reproductive	Proposition 65 - Reproductive Toxicity		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
U.S California - Proposition 65 - Carcinogens List Yes	U.S California - Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRĽ)	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
U.S California - Proposition 65 - Carcinogens List Yes	U.S California - Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRĽ)	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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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)
Yes	No	No	No	5.8 μg/day	
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-Nitrosodimeth	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	
o-toluidine (95-5	53-4)				
U.S California - Proposition 65	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)
 Carcinogens List 	,	,			

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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	i-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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