

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 17/11/2015

Supersedes: 17/11/2015

Version: 2.0

ES-5484

Revision date: 19/02/2020

1.1.	Product identifier	ubstance/mixture and of the company/undertaking
Product		: Mixtures
Produc	tname	: CDC OH-PAH NATIVE PAR STANDARD UNLABELED IN TOLUENE
Product	t code	: ES-5484
1.2.	Relevant identified uses of the su	bstance or mixture and uses advised against
1.2.1.	Relevant identified uses	
Main us	se category	: Professional use
Industri	ial/Professional use spec	: For professional use only
1.2.2.	Uses advised against	
	litional information available	
1.3.	Details of the supplier of the safe	ty data sneet
	idge Isotope Laboratories, Inc. htage Road	
	er, MA 01810	
USA		
USA: 1	1-800-322-1174 Int: 1-978-749-8000	
cilsales	@isotope.com www.isotope.com	
	Emergency telephone number	
Emerge	ency numbers:	
Chemtr	rec: 1-800-424-9300 (24 hours)	
	tional: 1-703-741-5970 (24 hours)	
SECT	ION 2: Hazards identification	
2.1.	Classification of the substance or	r mixture
Classif	fication according to Regulation (EC) No. 1272/2008 [CLP]
	.iq. 2 H225	
	it. 2 H315	
Repr. 2	H361	
•	SE 3 H336	

STOT RE 2 H373

Asp. Tox. 1 H304

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

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11 Xi; R38 Xn; R65 Repr.Cat.3; R62 Repr.Cat.3; R63 R67 N; R51/53 Xn; R48/20 Full text of R-phrases: see section 16

GHS-US classification

Flam. Liq. 2 H225 Skin Irrit. 2 H315 Repr. 2 STOT SE 3 H361 H336 STOT RE 2 H373 H304 Asp. Tox. 1 Aquatic Acute 2 H401

Full text of H statements : see section 16

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Adverse physicochemical, human health and environmental effects

brain. kidneys. liver. urinary bladder. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs (brain, kidneys, liver, urinary bladder) (if inhaled, if swallowed, in contact with skin). May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Causes skin irritation.

Labeling according to Regulation (EC) No	o. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS02 GHS08 GHS07
Signal word (CLP)	: Danger
Hazardous ingredients	: TOLUENE UNLABELED
Hazard statements (CLP)	 H225 - Highly flammable liquid and vapor H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H336 - May cause drowsiness or dizziness H361 - Suspected of damaging fertility. Suspected of damaging the unborn child. (if inhaled, if swallowed, in contact with skin) H373 - May cause damage to organs (liver, kidneys, brain, urinary bladder) through prolonged or repeated exposure (in contact with skin, if inhaled, if swallowed)
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical, lighting, ventilating equipment P260 - Do not breathe dust, fume, gas, mist, spray, vapors. P264 - Wash hands, forearms and face thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective clothing, protective gloves.
GHS-US labeling	
Hazard pictograms (GHS-US)	: CHS02 CHS08 CHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H225 - Highly flammable liquid and vapor H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H336 - May cause drowsiness or dizziness H361 - Suspected of damaging fertility, Suspected of damaging the unborn child. (Dermal, Inhalation, oral) H373 - May cause damage to organs (kidneys, liver, urinary bladder, brain) through prolonged or repeated exposure (Dermal, Inhalation, oral) H401 - Toxic to aquatic life
Precautionary statements (GHS-US)	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, open flames, sparks No smoking. P233 - Keep container tightly closed. P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P260 - Do not breathe fume, mist, spray, vapors. P261 - Avoid breathing dust, fume, gas, mist, spray, vapors. P264 - Wash hands, forearms and face thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area.

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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
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P308+P313 - If exposed or concerned: Get medical advice/attention.
P312 - Call a doctor, a POISON CENTER if you feel unwell
P314 - Get medical advice/attention if you feel unwell.
P321 - Specific treatment (see Hazardous component(s) for labeling on this label)
P331 - Do NOT induce vomiting.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry

extinguishing powder to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

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

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

- Not applicable
- 3.2. Mixtures

3.2. Mixtures			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
TOLUENE UNLABELED	(CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index-No.) 601-021-00-3 (REACH-no) 01-2119471310-51	99.99815	F; R11 Xi; R38 Xn; R65 Repr.Cat.3; R62 Repr.Cat.3; R63 R67 N; R51/53 Xn; R48/20
1-HYDROXYNAPHTHALENE (1-NAPHTHOL) UNLABELED	(CAS-No.) 90-15-3 (EC-No.) 201-969-4 (EC Index-No.) 604-029-00-5	0.000462	Xn; R21/22 Xi; R41 Xi; R39 T; R24 Xi; R37/38 N; R51/53
2-HYDROXYNAPHTHALENE (2-NAPHTHOL) UNLABELED	(CAS-No.) 135-19-3 (EC-No.) 205-182-7 (EC Index-No.) 604-007-00-5	0.000462	N; R50 Xn; R20/22
1-HYDROXYPHENANTHRENE UNLABELED	(EC-No.) 207-602-4	0.000116	Xi; R36/37/38
2-HYDROXYFLUORENE UNLABELED	(CAS-No.) 2443-58-5 (EC-No.) 219-478-9	0.000116	Xi; R36/37/38
1-HYDROXYPYRENE UNLABELED		0.000116	Xi; R36/37/38
3-HYDROXYFLUORENE UNLABELED	(CAS-No.) 6344-67-8 (EC-No.) 219-478-9 (Unlabeled) (EC Index-No.)	0.000116	Xi; R36/37/38
9-HYDROXYFLUORENE UNLABELED	(CAS-No.) 1689-64-1	0.000116	Not classified
2-HYDROXYPHENANTHRENE UNLABELED		0.000116	Xi; R36/37/38
4-HYDROXYPHENANTHRENE UNLABELED	(CAS-No.) 7651-86-7 (EC Index-No.)	0.000116	Xi; R36/37/38
3-HYDROXYPHENANTHRENE UNLABELED	(CAS-No.) 605-87-8	0.000116	Xi; R36/37/38
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
TOLUENE UNLABELED	(CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index-No.) 601-021-00-3 (REACH-no) 01-2119471310-51	99.99815	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-HYDROXYNAPHTHALENE (1-NAPHTHOL) UNLABELED	(CAS-No.) 90-15-3 (EC-No.) 201-969-4 (EC Index-No.) 604-029-00-5	0.000462	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 2, H411
2-HYDROXYNAPHTHALENE (2-NAPHTHOL) UNLABELED	(CAS-No.) 135-19-3 (EC-No.) 205-182-7 (EC Index-No.) 604-007-00-5	0.000462	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist) H332 Eye Irrit. 2, H319 Aquatic Acute 1, H400
1-HYDROXYPHENANTHRENE UNLABELED	(EC-No.) 207-602-4	0.000116	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
2-HYDROXYFLUORENE UNLABELED	(CAS-No.) 2443-58-5 (EC-No.) 219-478-9	0.000116	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
1-HYDROXYPYRENE UNLABELED		0.000116	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
3-HYDROXYFLUORENE UNLABELED	(CAS-No.) 6344-67-8 (EC-No.) 219-478-9 (Unlabeled) (EC Index-No.)	0.000116	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
9-HYDROXYFLUORENE UNLABELED	(CAS-No.) 1689-64-1	0.000116	Not classified
2-HYDROXYPHENANTHRENE UNLABELED		0.000116	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
4-HYDROXYPHENANTHRENE UNLABELED	(CAS-No.) 7651-86-7 (EC Index-No.)	0.000116	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336
3-HYDROXYPHENANTHRENE UNLABELED	(CAS-No.) 605-87-8	0.000116	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Name	Product identifier	%	GHS-US classification
TOLUENE UNLABELED	(CAS-No.) 108-88-3	99.99815	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401
1-HYDROXYNAPHTHALENE (1-NAPHTHOL) UNLABELED	(CAS-No.) 90-15-3	0.000462	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
2-HYDROXYNAPHTHALENE (2-NAPHTHOL) UNLABELED	(CAS-No.) 135-19-3	0.000462	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist) H332 Eye Irrit. 2A, H319 Aquatic Acute 1, H400
1-HYDROXYPHENANTHRENE UNLABELED		0.000116	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
2-HYDROXYFLUORENE UNLABELED	(CAS-No.) 2443-58-5	0.000116	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
1-HYDROXYPYRENE UNLABELED		0.000116	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
3-HYDROXYFLUORENE UNLABELED	(CAS-No.) 6344-67-8	0.000116	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
9-HYDROXYFLUORENE UNLABELED	(CAS-No.) 1689-64-1	0.000116	Aquatic Acute 1, H400
2-HYDROXYPHENANTHRENE UNLABELED		0.000116	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
4-HYDROXYPHENANTHRENE UNLABELED	(CAS-No.) 7651-86-7	0.000116	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336

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Name	Product identifier	%	GHS-US classification
3-HYDROXYPHENANTHRENE UNLABELED	(CAS-No.) 605-87-8	0.000116	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of R- and H- phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: 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. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Wash with plenty of soap and water, Get immediate medical advice/attention. Get medical advice/attention. Specific treatment (see Hazard pictograms (CLP) on this label).
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Immediately call a poison center or doctor/physician.
4.2. Most important symptoms and effec	ts, both acute and delayed
Symptoms/effects	: Suspected of damaging fertility. Suspected of damaging the unborn child. (in contact with skin, if inhaled, if swallowed). Causes damage to organs (brain, kidneys, liver, urinary bladder) (in contact with skin, if inhaled, if swallowed).
Symptoms/effects after inhalation	: Harmful if inhaled. May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Harmful in contact with skin. Causes skin irritation. Repeated exposure to this material can result in absorption through skin causing significant health hazard.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. Risk of lung edema.
4.3. Indication of any immediate medical	attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. 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. Special hazards arising from the sub	ostance or mixture
Fire hazard	: Highly flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
5.3. Advice for firefighters	
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 meas	sures
6.1. Personal precautions, protective equ	uipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
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, mist or spray.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
	authorities if liquid enters sewers or public waters. Avoid release to the environment.
6.3. Methods and material for containme	
Methods for cleaning up	 Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
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6.4. Reference to other sections		
See Heading 8. Exposure controls and pers	onal protection.	
SECTION 7: Handling and storage	e	
7.1. Precautions for safe handling		
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.	
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. 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. Use only outdoors or in a well-ventilated area. Avoid breathing dust, mist or spray.	
Hygiene measures	: Wash Both hands thoroughly after handling.	
7.2. 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. Use explosion-proof electrical equipment.	
Storage conditions	: Store refrigerated (-5 °C to 5 °C). Protect from light.	
Incompatible products	: Strong bases. Strong acids.	
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.	

7.3. Specific end use(s)

- - -

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters		
CDC OH-PAH NATIVE PAR S	STANDARD UNLABELED IN TOLUENE	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.00000000 ppm USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Visual impairment. Female reproductive. Pregnancy loss. 2015 Adoption. Substances for which there is a Biological Exposure Index or Indices (see BEI® section). Not classifiable as a human carcinogen.; Component: Toluene CAS-No.: 108-88-3 Parameters: Toluene Value: 0.0300 mg/l Biological specimen: Urine Remarks: End of shift (As soon as possible after exposure ceases) Basis: ACGIH - Biological Exposure Indices (BEI); Component: Toluene CAS- No.: 108-88-3 Parameters: Toluene Value: 0.0200 mg/l Biological specimen: In blood Remarks: Prior to last shift of workweek Basis: ACGIH - Biological Exposure Indices (BEI); Component: Toluene CAS- No.: 108-88-3 Parameters: o-Cresol Value: 0.3000 mg/g Biological specimen: Urine Remarks: End of shift (As soon as possible after exposure ceases) Basis: ACGIH - Biological Exposure Indices (BEI)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	375 mg/m ³ USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TWA) (ppm)	100 ppm USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	560 mg/m ³ USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (ppm)	150 ppm USA. NIOSH Recommended Exposure Limits
USA OSHA	OSHA PEL (TWA) (mg/m³)	375 mg/m ³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (STEL) (mg/m³)	560 mg/m ³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (STEL) (ppm)	150 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-2

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CDC OH-PAH NATIVE PAR S	STANDARD UNLABELED IN TOLUENE	
USA OSHA	Remark (OSHA)	OSHA PEL (TWA) - 200 ppm - USA. Occupational Exposure Limits (OSHA) - Table Z-2. Remarks: Z37.12-1967
TOLUENE UNLABELED (108	3-88-3)	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.00000000 ppm USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Visual impairment. Female reproductive. Pregnancy loss. 2015 Adoption. Substances for which there is a Biological Exposure Index or Indices (see BEI® section). Not classifiable as a human carcinogen.; Component: Toluene CAS-No.: 108-88-3 Parameters Toluene Value: 0.0300 mg/l Biological specimen: Urine Remarks: End of shift (As soon as possible after exposure ceases) Basis: ACGIH - Biological Exposure Indices (BEI); Component: Toluene CAS- No.: 108-88-3 Parameters: Toluene Value: 0.0200 mg/l Biological specimen: In blood Remarks: Prior to last shift of workweek Basis: ACGIH - Biological Exposure Indices (BEI); Component: Toluene CAS- No.: 108-88-3 Parameters: o-Cresol Value: 0.3000 mg/g Biological specimen: Urine Remarks: End of shift (As soon as possible after exposure ceases) Basis: ACGIH - Biological Exposure Indices (BEI)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	375 mg/m ³ USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TWA) (ppm)	100 ppm USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	560 mg/m ³ USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (ppm)	150 ppm USA. NIOSH Recommended Exposure Limits
USA OSHA	OSHA PEL (TWA) (mg/m ³)	375 mg/m ³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (STEL) (mg/m ³)	560 mg/m ³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (STEL) (ppm)	150 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-2
USA OSHA	Remark (OSHA)	OSHA PEL (TWA) - 200 ppm - USA. Occupational Exposure Limits (OSHA) - Table Z-2. Remarks: Z37.12-1967

8.2. Exposure controls

Appropriate engineering controls

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Personal protective equipment

Materials for protective clothing

Environmental exposure controls

Skin and body protection

Respiratory protection

Hand protection

Eye protection

Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



- : Wear suitable protective clothing and gloves.
- : Wear suitable protective clothing and gloves.
- : Wear eye protection. Chemical goggles or face shield with safety glasses.
- : Wear suitable protective clothing, gloves and eye/face protection. Wear suitable protective clothing.
- : In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear respiratory protection.

: Avoid release to the environment.

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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
The properties listed below are for the solvent, the main component of this mixture.		
Physical state	: Liquid	
Appearance	: Liquid	
Molecular mass	: 92.14 g/mol	
Color	: Colorless	
Odor	: Characteristic	
Odor threshold	: No data available	
pH	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Melting point	: -93 °C (-135 °F)	
Freezing point	: No data available	
Boiling point	: 110 - 111 °C (230 - 232 °F)	
Flash point	: 4 °C (39.2 °F) - closed cup	
Auto-ignition temperature	: 535 °C (995 °F)	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Highly flammable liquid and vapor	
Vapor pressure	: 29.1 hPa (21.8 mmHg) at 20.0 °C (68.0 °F)	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Specific gravity / density	: 0.865 g/ml at 25 °C (77 °F)	
Solubility	: No data available	
Log Pow	: No data available	
Log Kow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Explosion limits	: 1.2 - 7 % (V)	
9.2. Other information		
No additional information available		
SECTION 10: Stability and reactivity		
40.4 Describution		

Reactivity 10.1. No additional information available 10.2. **Chemical stability** See storage and expiration date on CoA. 10.3. Possibility of hazardous reactions Not established. **Conditions to avoid** 10.4. Direct sunlight. Extremely high or low temperatures. Open flame. 10.5. Incompatible materials Strong acids. Strong bases. Hazardous decomposition products 10.6. Fume. Carbon monoxide. Carbon dioxide. May release flammable gases. **SECTION 11: Toxicological information** Information on toxicological effects 11.1.

Acute toxicity	Not classified
CDC OH-PAH NATIVE PAR STANDARD UNLA	BELED IN TOLUENE
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h

TOLUENE UNLABELED (108-88-3)			
LD50 oral rat	> 5580 mg/kg		
LD50 dermal rabbit	12196 mg/kg		
LC50 inhalation rat (mg/l)	12,500 - 28,800 mg/m3 - 4 h		
ATE CLP (dermal)	12196.000 mg/kg body weight		
ATE CLP (vapors)	12.500 mg/l/4h		
ATE CLP (dust, mist)	12.500 mg/l/4h		
1-HYDROXYNAPHTHALENE (1-NAPHTHOL)	UNLABELED (90-15-3)		
LD50 oral rat	1870 mg/kg		
LD50 dermal rabbit	880 mg/kg		
ATE CLP (oral)	1870.000 mg/kg body weight		
ATE CLP (dermal)	880.000 mg/kg body weight		
2-HYDROXYNAPHTHALENE (2-NAPHTHOL)	UNLABELED (135-19-3)		
LD50 oral rat	1960 mg/kg		
LD50 dermal rabbit	> 10000 mg/kg		
LC50 inhalation rat (mg/l)	> ≥ 770 mg/m ³		
ATE CLP (oral)	1960.000 mg/kg body weight		
ATE CLP (dust, mist)	1.500 mg/l/4h		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Not classified		
Respiratory or skin sensitization	: Not classified		
	Based on available data, the classification criteria are not met		
Germ cell mutagenicity	: Not classified		
	Based on available data, the classification criteria are not met		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Suspected of damaging fertility. Suspected of damaging the unborn child. (if inhaled, if swallowed, in contact with skin).		
Specific target organ toxicity – single exposure	: May cause drowsiness or dizziness.		
Specific target organ toxicity – repeated exposure	 May cause damage to organs (liver, kidneys, brain, urinary bladder) through prolonged or repeated exposure (in contact with skin, if inhaled, if swallowed). 		
Aspiration hazard	: May be fatal if swallowed and enters airways.		
	Based on available data, the classification criteria are not met		
Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. Based on available data, the classification criteria are not met.		
IARC group	: 3		
Symptoms/effects after inhalation	: Harmful if inhaled. May cause drowsiness or dizziness.		
Symptoms/effects after skin contact	: Harmful in contact with skin. Causes skin irritation. Repeated exposure to this material can result in absorption through skin causing significant health hazard.		
Symptoms/effects after eye contact	: May cause eye irritation.		
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. Risk of lung edema.		
0			

SECTIO	N 12: Ecological information	
12.1.	Toxicity	
Ecology - g	general	: Toxic to aquatic life.

TOLUENE UNLABELED (108-88-3)			
EC50 Daphnia 1	EC50 Daphnia 1 8 mg/l Daphnia magna (Water flea) - 24h		
LC50 fish 2	7.63 mg/l Oncorhynchus mykiss (Rainbow trout) - 96 h		
EC50 Daphnia 2	6 mg/l Daphnia magna (Water flea) - Immobilization - 48 h		
ErC50 (algae) 245 mg/l Chlorella vulgaris (Fresh water algae) - 24 h			
ErC50 (other aquatic plants) 10 mg/l Pseudokirchneriella subcapitata (Green algae) - 24 h			
NOEC (chronic)	5.44 mg/l Pimephales promelas (fathead minnow) - 7 d		
1-HYDROXYNAPHTHALENE (1-NAPH	ITHOL) UNLABELED (90-15-3)		
LC50 fish 1 4.1 - 4.7 mg/l - 96 h, Pimephales promelas (fathead minnow) -			
10/00/0000		0/10	

6, 2012 / Rules and Regulations 9-HYDROXYFLUORENE UNLABELED (1689	-64-1)
ErC50 (algae)	0.5 mg/l - 61 h, mortality Dunaliella bioculata -
2-HYDROXYNAPHTHALENE (2-NAPHTHOL)	UNLABELED (135-19-3)
LC50 fish 1	3.46 mg/l Pimephales promelas (fathead minnow) -96h
12.2. Persistence and degradability	
TOLUENE UNLABELED (108-88-3)	
Persistence and degradability	Readily biodegradable.
12.3. Bioaccumulative potential	
TOLUENE UNLABELED (108-88-3)	
BCF fish 1	0.05 mg/l Leuciscus idus (Golden orfe) - 3 d
Bioconcentration factor (BCF REACH)	90
1-HYDROXYNAPHTHALENE (1-NAPHTHOL)	
Log Pow	2.85
4-HYDROXYPHENANTHRENE UNLABELED	(7651-86-7)
Log Pow	3.86
12.4. Mobility in soil	
12.5. Results of PBT and vPvB assessme	ent and a second se
12.6 Other adverse effects	
12.6. Other adverse effects Other information	: Avoid release to the environment. Disposal must be done according to official regulations.
	. Avoid release to the environment. Disposal must be done according to onicial regulations.
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local
Product/Pooleoging diapoool recommendations	environmental control regulations.
Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dispose of contents/container t hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Dispose of as unused product. Hazardous waste due to toxicity.
SECTION 14: Transport information	
n accordance with ADR / RID / IMDG / IATA / A	DN
14.1. UN number	
UN-No.(DOT)	: 1294
DOT NA no.	UN1294
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Toluene
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid
	FLAMMABLE LIQUID
Packing group (DOT)	: II - Medium Danger
DOT Special Provisions (49 CFR 172.102)	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). 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. T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
40/00/0000	

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Marine pollutant	: No
44.0 Additional information	
14.3. Additional information	
Other information	: No supplementary information available.
Overland transport	
Packing group (ADR)	: 11
Class (ADR)	: 3 - Flammable liquid
Hazard identification number (Kemler No.)	: 33
Classification code (ADR)	: F1
Hazard labels (ADR)	: 3 - Flammable liquids
	3
Orange plates	33 1294
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	11
EAC	: 3YE
Excepted quantities (ADR)	: E2
Transport by sea	
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
MFAG-No	: 130
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
Civil Aeronautics Law	: Flammable liquids
14.4. Environmental hazards	
Other information	: No supplementary information available.
14.5. Special precautions for user	
	ex II of MARPOL 73/78 and the IBC Code
14.0. Hansport in bulk according to Anne	

Not applicable

SECTION 15: Regulatory information	on
5.1. US Federal regulations	
CDC OH-PAH NATIVE PAR STANDARD	NLABELED IN TOLUENE
Listed on the United States TSCA (Toxic Sub	stances Control Act) inventory
CERCLA RQ	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313

TOLUENE UNLABELED (108-88-3)	
Listed on the United States TSCA (Toxic Substa	
CERCLA RQ	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 311/312 Hazard Classes	Fire hazard
	Immediate (acute) health hazard
	Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313
1-HYDROXYPHENANTHRENE UNLABELED	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
2-HYDROXYFLUORENE UNLABELED (2443-5	i8-5)
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
1-HYDROXYPYRENE UNLABELED	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
1-HYDROXYNAPHTHALENE (1-NAPHTHOL)	JNLABELED (90-15-3)
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
3-HYDROXYFLUORENE UNLABELED (6344-6	i7-8)
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
9-HYDROXYFLUORENE UNLABELED (1689-6	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
2-HYDROXYPHENANTHRENE UNLABELED	·
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
4-HYDROXYPHENANTHRENE UNLABELED (7651-86-7)
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.
3-HYDROXYPHENANTHRENE UNLABELED	605-87-8)
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
2-HYDROXYNAPHTHALENE (2-NAPHTHOL)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313

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15.2. International regulations		
CANADA		
CDC OH-PAH NATIVE PAR STANDARD UNLA	BELED IN TOLUENE	
Listed on the Canadian DSL (Domestic Substances List)		
TOLUENE UNLABELED (108-88-3)		
Listed on the Canadian DSL (Domestic Substances List)		
2-HYDROXYPHENANTHRENE UNLABELED		
Listed on the Canadian DSL (Domestic Substances List)		
WHMIS Classification D2B Toxic material causing other toxic effects.		

15.2.1. National regulations

No additional information available

15.3. US State regulation	S			
CDC OH-PAH NATIVE PA	AR STANDARD UNLABELED	IN TOLUENE()		
U.S California - Propositi	ion 65 - Carcinogens List	No		
U.S California - Proposition 65 - Developmental Toxicity		Yes		
U.S California - Propositi Toxicity - Female	ion 65 - Reproductive	No		
U.S California - Propositi Toxicity - Male	ion 65 - Reproductive	No		
No significant risk level (NS	SRL)	7000 µg/day		
State or local regulations		U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S New Jersey - Right to Know Hazardous Substance List U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances U.S Pennsylvania - RTK (Right to Know) List U.S Massachusetts - Right To Know List		
TOLUENE UNLABELED ((108-88-3)			
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)
No	Yes	No	No	7000 µg/day
1-HYDROXYPHENANTHF				
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)
No	No	No	No	7000 µg/day
2-HYDROXYFLUORENE	UNI ABELED (2443-58-5)			
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)
No	No	No	No	7000 µg/day
1-HYDROXYPYRENE UN	LABELED			•
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)
No	No	No	No	7000 µg/day
1-HYDROXYNAPHTHALE	ENE (1-NAPHTHOL) UNLAB	ELED (90-15-3)		
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)

3-HYDROXYFLUORENE U	NI ABELED (6344-67-8)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)
No	No	No	No	7000 µg/day
9-HYDROXYFLUORENE U	NLABELED (1689-64-1)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity -	U.S California - Proposition 65 - Reproductive Toxicity -	No significant risk level (NSRL)
No	No	Female	Male	7000 µg/day
-	-	NO	NU	7000 µg/uay
2-HYDROXYPHENANTHRI U.S California -	ENE UNLABELED U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)
No	No	No	No	7000 µg/day
4-HYDROXYPHENANTHRI	ENE UNLABELED (7651-86-	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)
No	No	No	No	7000 µg/day
	ENE UNLABELED (605-87-8)			
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)
No	No	No	No	7000 µg/day
2-HYDROXYNAPHTHALEN	NE (2-NAPHTHOL) UNLABE	LED (135-19-3)		
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)
No	No	No	No	7000 µg/day
TOLUENE UNLABELED (1	08-88-3)			
State or local regulations				
U.S New Jersey - Right to		List		
1-HYDROXYPHENANTHR	ENE UNLABELED			
State or local regulations				
U.S Pennsylvania - RTK (U.S New Jersey - Right to	Right to Know) List Know Hazardous Substance	List		
2-HYDROXYFLUORENE U	NLABELED (2443-58-5)			
State or local regulations				
U.S Pennsylvania - RTK (U.S New Jersey - Right to	Right to Know) List Know Hazardous Substance	List		
1-HYDROXYPYRENE UNL	ABELED			
State or local regulations				
U.S Pennsylvania - RTK (Right to Know) List Know Hazardous Substance	List		

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1-HYDROXYNAPHTHALENE (1-NAPHTHOL) UNLABELED (90-15-3)
State or local regulations
U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List
3-HYDROXYFLUORENE UNLABELED (6344-67-8)
State or local regulations
U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List
9-HYDROXYFLUORENE UNLABELED (1689-64-1)
State or local regulations
U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List
2-HYDROXYPHENANTHRENE UNLABELED
State or local regulations
U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List
4-HYDROXYPHENANTHRENE UNLABELED (7651-86-7)
State or local regulations
U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List
3-HYDROXYPHENANTHRENE UNLABELED (605-87-8)
State or local regulations
U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List
2-HYDROXYNAPHTHALENE (2-NAPHTHOL) UNLABELED (135-19-3)
State or local regulations
U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

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

Full text of R-, H- and EUH-phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H315	Causes skin irritation

: None.

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H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
R11	Highly flammable
R20/22	Harmful by inhalation and if swallowed
R21/22	Harmful in contact with skin and if swallowed
R24	Toxic in contact with skin
R36/37/38	Irritating to eyes, respiratory system and skin
R37/38	Irritating to respiratory system and skin
R38	Irritating to skin
R39	Danger of very serious irreversible effects
R41	Risk of serious damage to eyes
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R50	Very toxic to aquatic organisms
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R62	Possible risk of impaired fertility
R63	Possible risk of harm to the unborn child
R65	Harmful: may cause lung damage if swallowed
R67	Vapors may cause drowsiness and dizziness
F	Highly flammable
Ν	Dangerous for the environment
Т	Toxic
Xi	Irritant
Xn	Harmful

NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard
Physical	: 0 Minimal Hazard

CIL Mixture SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product