

DECHLORANES AND BFR NATIVE STANDARD MIXTURE 10 UG/ML IN NONANE/TOLUENE

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: 14/12/2017 Revision date: : Version: 1.0 ES-5606

SECTION 1: Identification of the sub	ostance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixtures
Product name	: DECHLORANES AND BFR NATIVE STANDARD MIXTURE 10 UG/ML IN NONANE/TOLUENE
Product code	: ES-5606
1.2. Relevant identified uses of the subs	stance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
Industrial/Professional use spec	: For professional use only
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety	data sheet
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA	
USA: 1-800-322-1174 Int: 1-978-749-8000 cilsales@isotope.com www.isotope.com	
Emergency telephone number	
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)	
SECTION 2: Hazards identification	
2.1. Classification of the substance or m	nixture
Classification according to Regulation (EC) N	No. 1272/2008 [CLP]
Flam. Liq. 2 H225	
Acute Tox. 4 (Inhalation) H332	
Skin Irrit. 2 H315	
Eye Irrit. 2 H319	
Repr. 2 H361	
STOT SE 3 H336	
STOT RE 2 H373	
Asp. Tox. 1 H304	
Full text of hazard classes and H-statements : se	ee section 16
Classification according to Directive 67/548/E	EEC [DSD] or 1999/45/EC [DPD]
Repr.Cat.3; R62 Repr.Cat.3; R63	
F; R11 Xn; R20 Xn; R48/20 Xi; R36/37/38 R67	
Xn; R20 Xn; R48/20 Xi; R36/37/38	

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STOT RE 2	H373
Asp. Tox. 1	H304
Aquatic Acute 2	H401

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Central Nervous System. Flammable liquid and vapor. May cause drowsiness or dizziness. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May be fatal if swallowed and enters airways.

2.2. Label elements					
Labeling according to Regulation (EC) N	lo. 1272/2008 [CLP]				
Hazard pictograms (CLP)					
	GHS02 GHS08 GHS07				
Signal word (CLP)	: Danger				
Hazardous ingredients	: TOLUENE UNLABELED; N-NONANE UNLABELED				
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapor				
	H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation				
	H319 - Causes serious eye irritation				
	H332 - Harmful if inhaled				
	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 (brain, kidneys, liver, urinary bladder) through prolonged				
	or repeated exposure (if inhaled, if swallowed, in contact with skin)				
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)					
Hazard pictograms (Cric CC)					
	GHS02 GHS08 GHS07				
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				
	H319 - Causes serious eye irritation H332 - Harmful if inhaled				
	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 (brain, kidneys, liver, urinary bladder) 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				
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		P242 - Use only non-sparking tools
		P243 - Take precautionary measures against static discharge
		P260 - Do not breathe dust, fume, gas, 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
		P273 - Avoid release to the environment
		P280 - Wear protective clothing, protective gloves
		P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER
		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
		P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact
		lenses, if present and easy to do. Continue rinsing
		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
		P337+P313 - If eye irritation persists: 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

Substances 3.1.

Not applicable

3	.2	•		IV	X	tu

3.2. Mixtures			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
N-NONANE UNLABELED	(CAS No) 111-84-2 (EC No) 203-913-4	59.990997	R10 Xn; R20 Xn; R65 Xi; R36/38 R67
TOLUENE UNLABELED	(CAS No) 108-88-3 (EC No) 203-625-9 (EC Index No) 601-021-00-3 (REACH-no) 01-2119471310-51	40	F; R11 Xi; R38 Xn; R65 Repr.Cat.3; R62 Repr.Cat.3; R63 R67 N; R51/53 Xn; R48/20
MIREX UNLABELED	(CAS No) 2385-85-5 (EC No) 219-196-6 (EC Index No) 602-077-00-1	0.001286	Xn; R21/22 N; R50/53
DECHLORANE PLUS ANTI UNLABELED	(CAS No) 135821-74-8	0.001286	Xn; R20 N; R51/53
DECHLORANE PLUS SYN UNLABELED	(CAS No) 135821-03-3	0.001286	Muta.Cat.3; R68 T; R23 Xi; R37 N; R51/53
HEXABROMOBENZENE UNLABELED	(CAS No) 87-82-1 (EC No) 201-773-9 (EC Index No)	0.001286	Xn; R20/21/22 Xi; R36/37/38 N; R50/53
DECHLORANE 602 UNLABELED	(CAS No) 31107-44-5	0.001286	Not classified

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
TBPH (BIS(2-ETHYLHEXYL)TETRABROMOPHTHALATE) UNLABELED	(CAS No) 26040-51-7	0.001286	Xi; R36/37/38 N; R51/53
1,4-DIBROMOBENZENE UNLABELED	(CAS No) 106-37-6 (EC No) 203-390-2	0.001286	Xi; R36/37/38 N; R50/53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
N-NONANE UNLABELED	(CAS No) 111-84-2 (EC No) 203-913-4	59.990997	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304
TOLUENE UNLABELED	(CAS No) 108-88-3 (EC No) 203-625-9 (EC Index No) 601-021-00-3 (REACH-no) 01-2119471310-51	40	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
MIREX UNLABELED	(CAS No) 2385-85-5 (EC No) 219-196-6 (EC Index No) 602-077-00-1	0.001286	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 Repr. 2, H361 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
DECHLORANE PLUS ANTI UNLABELED	(CAS No) 135821-74-8	0.001286	Acute Tox. 3 (Inhalation), H331
DECHLORANE PLUS SYN UNLABELED	(CAS No) 135821-03-3	0.001286	Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 STOT SE 2, H371 Aquatic Chronic 4, H413
HEXABROMOBENZENE UNLABELED	(CAS No) 87-82-1 (EC No) 201-773-9 (EC Index No)	0.001286	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 4, H413
DECHLORANE 602 UNLABELED	(CAS No) 31107-44-5	0.001286	Not classified
TBPH (BIS(2-ETHYLHEXYL)TETRABROMOPHTHALATE) UNLABELED	(CAS No) 26040-51-7	0.001286	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
1,4-DIBROMOBENZENE UNLABELED	(CAS No) 106-37-6 (EC No) 203-390-2	0.001286	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Name	Product identifier	%	GHS-US classification
N-NONANE UNLABELED	(CAS No) 111-84-2	59.990997	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 Asp. Tox. 1, H304
TOLUENE UNLABELED	(CAS No) 108-88-3	40	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
MIREX UNLABELED	(CAS No) 2385-85-5	0.001286	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 Repr. 2, H361 Aquatic Acute 1, H400
			Aquatic Chronic 1, H410
DECHLORANE PLUS ANTI UNLABELED	(CAS No) 135821-74-8	0.001286	Aquatic Chronic 1, H410 Acute Tox. 3 (Inhalation), H331

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Name	Product identifier	%	GHS-US classification
DECHLORANE PLUS SYN UNLABELED	(CAS No) 135821-03-3	0.001286	Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 STOT SE 2, H371 Aquatic Acute 2, H401 Aquatic Chronic 4, H413
HEXABROMOBENZENE UNLABELED	(CAS No) 87-82-1	0.001286	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 4, H413
DECHLORANE 602 UNLABELED	(CAS No) 31107-44-5	0.001286	Not classified
TBPH (BIS(2-ETHYLHEXYL)TETRABROMOPHTHALATE) UNLABELED	(CAS No) 26040-51-7	0.001286	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
1,4-DIBROMOBENZENE UNLABELED	(CAS No) 106-37-6	0.001286	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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	: Rinse cautiously with water for several 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 eff	fects, both acute and delayed
Symptoms/injuries	 Suspected of damaging fertility. Suspected of damaging the unborn child (in contact with skin, if inhaled, if swallowed). May cause damage to organs (brain, kidneys, liver, urinary bladder) (in contact with skin, if inhaled, if swallowed).
Symptoms/injuries after inhalation	: Harmful if inhaled. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. Risk of lung edema.
4.3. Indication of any immediate medi	cal attention and special treatment needed
No additional information available	
SECTION 5: Eirefighting measures	

SECTION 5: Firefighting measures	ures
5.1. Extinguishing media	
Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide. Alcohol resistant foam.	
5.2. Special hazards arising from	the substance or mixture
Fire hazard	: Highly flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
Reactivity	: Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.
5.3. Advice for firefighters	
Firefighting instructions	: Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release mea	sures
	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	: Wear personal protective equipment. Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing fume, gas, mist, spray, vapors. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Avoid	
6.3. Methods and material for containme	ent and cleaning up
For containment	: Dike and contain spill. Dispose as hazardous waste. Comply with local regulations for disposal.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Avoid all contact with skin, eyes, or clothing. Keep away from sources of ignition - No smoking. Do not breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer). Take precautionary measures against static discharges. Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: 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. Avoid breathing dust, fume, gas, mist, spray, vapors. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Technical measures	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof Lighting equipment, ventilating equipment.
Storage conditions	: Store at room temperature away from light and moisture.
Incompatible materials	: Heat sources.
7.3. Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters** DECHLORANES AND BFR NATIVE STANDARD MIXTURE 10 UG/ML IN NONANE/TOLUENE Italy - Portugal - USA ACGIH 200.00000000 ppm 20 ppm ACGIH TWA (ppm) Italy - Portugal - USA ACGIH Remark (ACGIH) USA. ACGIH Threshold Limit Values (TLV). CNS impair. 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 (BÉI); 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)

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DECHLORANES AND BFR N	ATIVE STANDARD MIXTURE 10 UG/ML IN	
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	1050 mg/m³ 375 mg/m3
USA NIOSH	NIOSH REL (TWA) (ppm)	200 ppm 100 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	560 mg/m ³
USA NIOSH	NIOSH REL (STEL) (ppm)	150 ppm
USA NIOSH	Remark (NIOSH)	Central Nervous System impairment. USA. NIOSH Recommended Exposure Limits.
USA OSHA	OSHA PEL (TWA) (mg/m ³)	1050 mg/m ³ 375 mg/m3
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm 100 ppm
USA OSHA	OSHA PEL (STEL) (mg/m ³)	560 mg/m³
USA OSHA	OSHA PEL (STEL) (ppm)	150 ppm
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	1050 mg/m ³ California permissible exposure limits for chemical contaminants.
USA OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm California permissible exposure limits for chemical contaminants.
USA OSHA	Remark (OSHA)	USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000. OSHA PEL (Ceiling) (ppm): 300 ppm USA Occupational Exposure Limits (OSHA) - Table Z-2. 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 t 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/m³)	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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TOLUENE UNLABELED (108	-88-3)	
USA OSHA	Remark (OSHA)	OSHA PEL (TWA) - 200 ppm - USA. Occupational Exposure Limits (OSHA) - Table Z-2. Remarks: Z37.12-1967
N-NONANE UNLABELED (11	1-84-2)	· · · ·
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.00000000 ppm USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	CNS impair
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	1050 mg/m ³ USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TWA) (ppm)	200 ppm USA. NIOSH Recommended Exposure Limits
USA NIOSH	Remark (NIOSH)	Central Nervous System impairment
USA OSHA	OSHA PEL (TWA) (mg/m³)	1050 mg/m ³ USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	1050 California permissible exposure limits for chemical contaminants.
USA OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm California permissible exposure limits for chemical contaminants.

- 8.2. **Exposure controls**
- Appropriate engineering controls

Personal protective equipment

: Ensure good ventilation of the work station. Handle in accordance with good industrial hygiene and safety procedures.

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

Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: protective gloves.
Eye protection	: Chemical goggles or face shield. Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing, gloves and eye/face protection.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Approved respirator.
Environmental exposure controls	: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical an	d chemical properties	
Physical state	: Liquid	
Appearance	: Liquid.	
Color	: Colorless.	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Highly flammable liquid and vapor	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
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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	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.2. Chemical stability

See storage and expiration date on CoA.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Inhalation: Harmful if inhaled.

LD50 oral rat> 5580 mg/kgLD50 ormal rabbit12196 mg/kgLC50 inhalaton rat (mg/l)23760 mg/m³ male - 4 hATE CLP (gases)4500.000 pm/V/4hATE CLP (vapors)11.000 mg/U/4hATE CLP (dust, mist)1.500 mg/U/4hATE CLP (dust, mist)1.500 mg/U/4hAtic corrosion/inition, Dermal, ratResult: Skin Irritation (Draize Test)LC50, Inhalation, rat21.500 - 28.800 mg/m3 - 4 hAdditional information5. Typimurium Result: negativeMEREX UNLABELED (2385-85-5)5.LD50 oral rat235 mg/kgATE CLP (oral)235.000 mg/kg body weightATE CLP (dranal)300.000 mg/kg body weightATE CLP (grases)700.000 pmV/4hATE CLP (gases)700.000 pmV/4hATE CLP (gases)700.000 pmV/4hATE CLP (gases)700.000 pmV/4hATE CLP (uspors)3.000 mg/U4hATE CLP (uspors)3.000 mg/U5 body weightATE CLP (uspors)3.000 mg/U5 body weight <tr< th=""><th colspan="3">DECHLORANES AND BFR NATIVE STANDARD MIXTURE 10 UG/ML IN NONANE/TOLUENE</th></tr<>	DECHLORANES AND BFR NATIVE STANDARD MIXTURE 10 UG/ML IN NONANE/TOLUENE			
LC50 inhalation rat (mg/l) 23760 mg/m³ male - 4 h ATE CLP (gases) 4500.000 ppmV/4h ATE CLP (vapors) 11.000 mg/l/4h ATE CLP (dust, mist) 1.500 mg/l/4h Skin corrosion/irritation, Dermal, rat Result: Skin Irritation (Draize Test) LC50, Inhalation, rat 12,500 - 28,800 mg/m3 - 4 h Additional information : S. Typhimurium Result: negative MIREX UNLABELED (2385-85-5) ID500 raf rat LD50 oral rat 235 mg/kg ATE CLP (coral) 235.000 mg/kg body weight ATE CLP (coral) 235.000 mg/kg body weight ATE CLP (dermal) 300.000 mg/kg body weight DECHLORANE PLUS ANTI UNLABELED (135227748) Intercept (1352774787) ATE CLP (gases) 700.000 ppmV/4h ATE CLP (gases) 3000 mg/kg body weight DECHLORANE PLUS SYN UNLABELED (13527748) Intercept (13527748) ATE CLP (gases) 700.000 ppmV/4h ATE CLP (dust, mist) 0.500 mg/kg body weight ATE CLP (du	LD50 oral rat	> 5580 mg/kg		
ATE CLP (gases) 4500.000 pmV/4h ATE CLP (vapors) 11.000 mg/l/4h ATE CLP (dust, mist) 1.500 mg/l/4h Skin corrosion/irritation, Dermal, rat Result: Skin Irritation (Draize Test) LC50, Inhalation, rat 12,500 - 28,800 mg/m3 - 4 h Additional information : S. Typhimurium Result: negative MIREX UNLABELED (2385-85-5)	LD50 dermal rabbit	12196 mg/kg		
ATE CLP (vapors) 11.000 mg/l/4h ATE CLP (dust, mist) 1.500 mg/l/4h Skin corrosion/irritation, Dermal, rat Result: Skin Irritation (Draize Test) LC50, Inhalation, rat 12,500 - 28,800 mg/m3 - 4 h Additional information : S. Typhimurium Result: negative MIREX UNLABELED (2385-85-5)	LC50 inhalation rat (mg/l)	23760 mg/m ³ male - 4 h		
ATE CLP (dust, mist) 1.500 mg/l/4h Skin corrosion/irritation, Dermal, rat Result: Skin Irritation (Draize Test) LC50, Inhalation, rat 12,500 - 28,800 mg/m3 - 4 h Additional information : S. Typhimurium Result: negative MIREX UNLABELED (2385-85-5)	ATE CLP (gases)	4500.000 ppmV/4h		
Skin corosion/irritation, Dermal, ratResult: Skin Irritation (Draize Test)LC50, Inhalation, rat12,500 - 28,800 mg/m3 - 4 hAdditional information: S. Typhimurium Result: negativeMIREX UNLABELED (2385-85-5)Image: Corosion mg/kgLD50 oral rat235 mg/kgATE CLP (oral)235.000 mg/kg body weightATE CLP (dermal)300.000 mg/kg body weightDECHLORANE PLUS ANTI UNLABELED (13582+1-74-8)ATE CLP (gases)700.000 pmV/4hATE CLP (gases)700.000 mg/kg body weightATE CLP (ust, mist)0.500 mg/l/4hATE CLP (dust, mist)0.500 mg/l/4hATE CLP (gases)700.000 ppmV/4hATE CLP (gases)700.000 ppmV/4hATE CLP (gases)700.000 ppmV/4hATE CLP (dust, mist)0.500 mg/l/4hATE CLP (gases)700.000 ppmV/4hATE CLP (gases)3.000 mg/l/4hATE CLP (ust, mist)0.500 mg/kg body weightATE CLP (oral)500.000 mg/kg body weightATE CLP (oral)500.000 mg/kg body weight	ATE CLP (vapors)	11.000 mg/l/4h		
LC50, Inhalation, rat12,500 - 28,800 mg/m3 - 4 hAdditional information: S. Typhimurium Result: negativeMIREX UNLABELED (2385-85-5)LD50 oral rat235 mg/kgATE CLP (oral)235.000 mg/kg body weightATE CLP (dermal)300.000 mg/kg body weightDECHLORANE PLUS ANTI UNLABELED (1352)-74-8)ATE CLP (gases)700.000 ppmV/4hATE CLP (gases)700.000 ppmV/4hATE CLP (vapors)3.000 mg/l/4hATE CLP (dust, mist)0.500 mg/l/4hDECHLORANE PLUS SYN UNLABELED (1352)-70-30)700.000 ppmV/4hATE CLP (gases)700.000 ppmV/4hATE CLP (dust, mist)0.500 mg/l/4hDECHLORANE PLUS SYN UNLABELED (1352)-70-30)700.000 ppmV/4hATE CLP (dust, mist)0.500 mg/l/4hATE CLP (oral)25 50.000 mg/kg body weightATE CLP (oral)100.000 mg/kg body weight	ATE CLP (dust, mist)	1.500 mg/l/4h		
Additional information: S. Typhimurium Result: negativeMIREX UNLABELED (2385-85-5)LD50 oral rat235 mg/kgATE CLP (oral)235.000 mg/kg body weightATE CLP (dermal)300.000 mg/kg body weightDECHLORANE PLUS ANTI UNLABELED (1352±-74-8)ATE CLP (gases)700.000 ppmV/4hATE CLP (gases)700.000 ppmV/4hATE CLP (uspors)3.000 mg//4hATE CLP (dust, mist)0.500 mg//4hDECHLORANE PLUS SYN UNLABELED (1352±-03-3)ATE CLP (gases)700.000 ppmV/4hATE CLP (gases)700.000 ppmV/4hATE CLP (uspors)3.000 mg//4hATE CLP (uspors)0.500 mg//4hHEXABROMOBENZENE UNLABELED (87-82-1)LD50 oral rat225 mg/kgATE CLP (oral)500.000 mg/kg body weightATE CLP (oral)1100.000 mg/kg body weight	Skin corrosion/irritation, Dermal, rat	Result: Skin Irritation (Draize Test)		
MIREX UNLABELED (2385-85-5) LD50 oral rat 235 mg/kg ATE CLP (oral) 235.000 mg/kg body weight ATE CLP (dermal) 300.000 mg/kg body weight DECHLORANE PLUS ANTI UNLABELED (1352-74-8) Image: Comparison of the compa	LC50, Inhalation, rat	12,500 - 28,800 mg/m3 - 4 h		
LD50 oral rat 235 mg/kg ATE CLP (oral) 235.000 mg/kg body weight ATE CLP (dermal) 300.000 mg/kg body weight DECHLORANE PLUS ANTI UNLABELED (13527-74-8) ATE CLP (gases) 700.000 ppmV/4h ATE CLP (vapors) 3.000 mg//4h ATE CLP (dust, mist) 0.500 mg//4h DECHLORANE PLUS SYN UNLABELED (13527-03-3) ATE CLP (gases) 700.000 ppmV/4h ATE CLP (quors) 3.000 mg//4h ATE CLP (gases) 700.000 ppmV/4h ATE CLP (quors) 3.000 mg//4h ATE CLP (quors) 3.000 mg//4h ATE CLP (dust, mist) 0.500 mg//4h ATE CLP (quors) 3.000 mg//4h ATE CLP (dust, mist) 0.500 mg//4h HEXABROMOBENZENE UNLABELED (87-82-1 LD50 oral rat 225 mg/kg ATE CLP (oral) 500.000 mg/kg body weight ATE CLP (oral) 500.000 mg/kg body weight	Additional information	: S. Typhimurium Result: negative		
ATE CLP (oral) 235.000 mg/kg body weight ATE CLP (dermal) 300.000 mg/kg body weight DECHLORANE PLUS ANTI UNLABELED (135	MIREX UNLABELED (2385-85-5)			
ATE CLP (dermal) 300.000 mg/kg body weight DECHLORANE PLUS ANTI UNLABELED (135821-74-8) ATE CLP (gases) 700.000 ppmV/4h ATE CLP (vapors) 3.000 mg//4h ATE CLP (vapors) 3.000 mg//4h ATE CLP (dust, mist) 0.500 mg//4h ATE CLP (gases) ATE CLP (gases	LD50 oral rat	235 mg/kg		
DECHLORANE PLUS ANTI UNLABELED (135821-74-8)ATE CLP (gases)700.000 ppmV/4hATE CLP (vapors)3.000 mg//4hATE CLP (dust, mist)0.500 mg//4hDECHLORANE PLUS SYN UNLABELED (135821-03-3)ATE CLP (gases)700.000 ppmV/4hATE CLP (gases)700.000 ppmV/4hATE CLP (vapors)3.000 mg//4hATE CLP (dust, mist)0.500 mg//4hHEXABROMOBENZENE UNLABELED (87-82-'LD50 oral rat225 mg/kgATE CLP (oral)500.000 mg/kg body weightATE CLP (dermal)1100.000 mg/kg body weight	ATE CLP (oral)	235.000 mg/kg body weight		
ATE CLP (gases) 700.000 ppmV/4h ATE CLP (vapors) 3.000 mg//4h ATE CLP (dust, mist) 0.500 mg//4h DECHLORANE PLUS SYN UNLABELED (1352:1-03-3) 700.000 ppmV/4h ATE CLP (gases) 700.000 ppmV/4h ATE CLP (uspors) 3.000 mg//4h ATE CLP (uspors) 3.000 mg//4h ATE CLP (dust, mist) 0.500 mg//4h ATE CLP (dust, mist) 100.000 mg/kg body weight ATE CLP (oral) 500.000 mg/kg body weight	ATE CLP (dermal)	300.000 mg/kg body weight		
ATE CLP (vapors) 3.000 mg/l/4h ATE CLP (dust, mist) 0.500 mg/l/4h DECHLORANE PLUS SYN UNLABELED (13521-03-3) 3.000 mg/l/4h ATE CLP (gases) 700.000 ppmV/4h ATE CLP (vapors) 3.000 mg/l/4h ATE CLP (dust, mist) 0.500 mg/l/4h ATE CLP (dust, mist) 0.500 mg/l/4h HEXABROMOBENZENE UNLABELED (87-82-1) 1.0000 mg/l/4h LD50 oral rat 225 mg/kg ATE CLP (oral) 500.000 mg/kg body weight ATE CLP (dermal) 1100.000 mg/kg body weight	DECHLORANE PLUS ANTI UNLABELED (1358	321-74-8)		
ATE CLP (dust, mist)0.500 mg/l/4hDECHLORANE PLUS SYN UNLABELED (135821-03-3)ATE CLP (gases)700.000 ppmV/4hATE CLP (vapors)3.000 mg/l/4hATE CLP (dust, mist)0.500 mg/l/4hATE CLP (dust, mist)0.500 mg/l/4hDECAMOBENZENE UNLABELED (87-82-1)LD50 oral rat225 mg/kgATE CLP (oral)500.000 mg/kg body weightATE CLP (dermal)1100.000 mg/kg body weight	ATE CLP (gases)	700.000 ppmV/4h		
OCCUPUID SYN UNLABELED (135821-03-3)ATE CLP (gases)700.000 ppmV/4hATE CLP (vapors)3.000 mg/l/4hATE CLP (dust, mist)0.500 mg/l/4hHEXABROMOBENZENE UNLABELED (87-82-1)LD50 oral rat225 mg/kgATE CLP (oral)500.000 mg/kg body weightATE CLP (dermal)1100.000 mg/kg body weight	ATE CLP (vapors)	3.000 mg/l/4h		
ATE CLP (gases) 700.000 ppmV/4h ATE CLP (vapors) 3.000 mg/l/4h ATE CLP (dust, mist) 0.500 mg/l/4h HEXABROMOBENZENE UNLABELED (87-82-) LD50 oral rat 225 mg/kg ATE CLP (oral) 500.000 mg/kg body weight ATE CLP (dermal) 1100.000 mg/kg body weight	ATE CLP (dust, mist)	0.500 mg/l/4h		
ATE CLP (vapors)3.000 mg//4hATE CLP (dust, mist)0.500 mg//4hHEXABROMOBENZENE UNLABELED (87-82-1)LD50 oral rat225 mg/kgATE CLP (oral)500.000 mg/kg body weightATE CLP (dermal)1100.000 mg/kg body weight	DECHLORANE PLUS SYN UNLABELED (1358	DECHLORANE PLUS SYN UNLABELED (135821-03-3)		
ATE CLP (dust, mist) 0.500 mg/l/4h HEXABROMOBENZENE UNLABELED (87-82-1) LD50 oral rat 225 mg/kg ATE CLP (oral) 500.000 mg/kg body weight ATE CLP (dermal) 1100.000 mg/kg body weight	ATE CLP (gases)	700.000 ppmV/4h		
HEXABROMOBENZENE UNLABELED (87-82-1) LD50 oral rat 225 mg/kg ATE CLP (oral) 500.000 mg/kg body weight ATE CLP (dermal) 1100.000 mg/kg body weight	ATE CLP (vapors)	3.000 mg/l/4h		
LD50 oral rat 225 mg/kg ATE CLP (oral) 500.000 mg/kg body weight ATE CLP (dermal) 1100.000 mg/kg body weight	ATE CLP (dust, mist)	0.500 mg/l/4h		
ATE CLP (oral) 500.000 mg/kg body weight ATE CLP (dermal) 1100.000 mg/kg body weight	HEXABROMOBENZENE UNLABELED (87-82-1)			
ATE CLP (dermal) 1100.000 mg/kg body weight	LD50 oral rat	225 mg/kg		
	ATE CLP (oral)			
ATE CLP (gases) 4500.000 ppmV/4h	ATE CLP (dermal)	1100.000 mg/kg body weight		
	ATE CLP (gases)	4500.000 ppmV/4h		

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HEXABROMOBENZENE UNLABELED (87-82-		
ATE CLP (vapors)	11.000 mg/l/4h	
ATE CLP (dust, mist)	1.500 mg/l/4h	
DECHLORANE 602 UNLABELED (31107-44-5)		
LD50 oral rat	>	
LD50 dermal rabbit	>	
LC50 inhalation rat (mg/l)	> 2250 mg/m ³	
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	
N-NONANE UNLABELED (111-84-2)		
LC50 inhalation rat (mg/l)	23760 mg/m ³ male - 4 h	
ATE CLP (gases)	3200.000 ppmV/4h	
ATE CLP (vapors)	11.000 mg/l/4h	
ATE CLP (dust, mist)	23.760 mg/l/4h	
Skin corrosion/irritation, Dermal, rat	Result: Skin Irritation (Draize Test)	
Additional information	: S. Typhimurium Result: negative	
1,4-DIBROMOBENZENE UNLABELED (106-37	/-6)	
LD50 oral	3120 mg/kg mouse	
Skin corrosion/irritation	: Causes skin irritation.	
	Skin rabbit Courses skin initiation	
Serious eye damage/irritation	Causes skin irritation 24 Hours	
Senous eye damage/imation	: Causes serious eye irritation.	
	Eyes rabbit	
	No eye irritation (OECD 405 method)	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Rat. liver. DNA Damage	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Damage to fetus possible. Suspected human reproductive toxicant. Reproductive toxicity - Rat - Inhalation. Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count). Experiments have shown reproductive toxicity effects in male and female laboratory animals. Developmental Toxicity - Rat - Oral. Effects on Embryo or Fetus:	
_	Fetotoxicity (except death, e.g, stunted fetus).	
Specific target organ toxicity – single exposure	: May cause drowsiness or dizziness.	
	May cause drowsiness or dizziness	
Specific target organ toxicity – repeated exposure	: May cause damage to organs (brain, kidneys, liver, urinary bladder) through prolonged or repeated exposure (if inhaled, if swallowed, in contact with skin).	
	No data available	
N-NONANE UNLABELED (111-84-2)		
NOAEL (oral,rat,90 days)	100 mg/kg bodyweight/day female (OECD Test Guildeline 408)	
Aspiration hazard	: May be fatal if swallowed and enters airways.	
Potential Adverse human health effects and symptoms	: Symptoms/injuries. IF INHALED: lungs. Pulmonary irritation. Pulmonary edema. Chest pain. Central Nervous System. 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. Stomach - Irregularities - Based on Human Evidence. Lung irritation, chest pain, pulmonay edema, Inhalation sudies have shown the development of inflammatory and ulcerous lesions of the penis, prepuce, and scrotom in animals.	
IARC group	: 3	
Symptoms/injuries after inhalation	: Harmful if inhaled. May cause respiratory irritation.	

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Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. Risk of lung edema.

SECTION 12: Ecological information			
12.1. Toxicity			
Ecology - general	Toxic to bees.		
Ecology - water	Toxic to aquatic life.		
DECHLORANES AND BFR NATIVE STANDARD MIXTURE 10 UG/ML IN NONANE/TOLUENE			
EC50 Daphnia 1	0.2 mg/l static test - Daphnia magna (Water flea) - 48 h		
EC50 other aquatic organisms 1	6 mg/l Daphnia magna (Water flea) - Immobilization - 48 h		
LC50 fish 2	7.63 mg/l Oncorhynchus mykiss (Rainbow trout) - 96 h		
EC50 Daphnia 2	8 mg/l Daphnia magna (Water flea) - 24 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		
MIREX UNLABELED (2385-85-5)			
LC50 fish 1	0.023 mg/l Oncorhynchus mykiss (rainbow trout) -96h		
EC50 Daphnia 1	2.6 mg/l Daphnia magna (Water flea) -2.6mg/L-48h		
TOLUENE UNLABELED (108-88-3)			
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		
N-NONANE UNLABELED (111-84-2)			
EC50 Daphnia 1	0.2 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h		
1,4-DIBROMOBENZENE UNLABELED (106-37	-6)		
LC50 fish 1	0.68 mg/l Poecilia reticulata (guppy) - 96 h		
12.2. Persistence and degradability			
DECHLORANES AND BFR NATIVE STANDARD MIXTURE 10 UG/ML IN NONANE/TOLUENE Persistence and degradability May cause long-term adverse effects in the environment.			
Biodegradation	Readily biodegradable.		
DECHLORANE PLUS ANTI UNLABELED (135821-74-8)			
Persistence and degradability Not available.			
DECHLORANE PLUS SYN UNLABELED (1358			
Persistence and degradability	Not available. May cause long-term adverse effects in the environment.		
HEXABROMOBENZENE UNLABELED (87-82-1			
Persistence and degradability	May cause long-term adverse effects in the environment.		
DECHLORANE 602 UNLABELED (31107-44-5)			
Persistence and degradability	Persistent in the environment.		
TBPH (BIS(2-ETHYLHEXYL)TETRABROMOPH	TBPH (BIS(2-ETHYLHEXYL)TETRABROMOPHTHALATE) UNLABELED (26040-51-7)		
Persistence and degradability	May cause long-term adverse effects in the environment.		
TOLUENE UNLABELED (108-88-3)			
Persistence and degradability	Readily biodegradable.		
1,4-DIBROMOBENZENE UNLABELED (106-37-6)			
Persistence and degradability	Not available.		
12.3. Bioaccumulative potential			
DECHLORANES AND BFR NATIVE STANDARD MIXTURE 10 UG/ML IN NONANE/TOLUENE			
BCF fish 1	0.05 mg/l Leuciscus idus (Golden orfe) - 3 d		
Bioconcentration factor (BCF REACH)	90		
Bioaccumulative potential	Indication of bioaccumulation.		
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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

0, 2012 / Rules and Regulations			
MIREX UNLABELED (2385-85-5)			
Bioconcentration factor (BCF REACH)	18100		
Log Pow	5.28		
Bioaccumulative potential	Bioaccumulative potential: Pimephales promelas (fathead minnow)- 32d.		
DECHLORANE PLUS ANTI UNLABELED (135	DECHLORANE PLUS ANTI UNLABELED (135821-74-8)		
Bioaccumulative potential	Not available.		
DECHLORANE PLUS SYN UNLABELED (135			
Bioaccumulative potential	Not available.		
HEXABROMOBENZENE UNLABELED (87-82			
Log Pow	6.278		
DECHLORANE 602 UNLABELED (31107-44-5			
Bioaccumulative potential	If released in water, this material is expected to preferentially absorb to sediment. The photodegradation half-life is over 24 years. The material is resistant to biodegradation by aerobic and anaerobic bacteria.		
TOLUENE UNLABELED (108-88-3)			
BCF fish 1	0.05 mg/l Leuciscus idus (Golden orfe) - 3 d		
Bioconcentration factor (BCF REACH)	90		
N-NONANE UNLABELED (111-84-2)			
Log Pow	5.65		
Bioaccumulative potential	Indication of bioaccumulation.		
1,4-DIBROMOBENZENE UNLABELED (106-3	7-6)		
Bioconcentration factor (BCF REACH)	30.8 ug/l - 220 Gambusia affinis (Mosquito fish) - 96 h		
Bioaccumulative potential	30.8 ug/l Gambusia affinis (Mosquito fish) - 96 h		
12.4. Mobility in soil			
DECHLORANE PLUS ANTI UNLABELED (135	j821-74-8)		
Ecology - soil	Not available.		
DECHLORANE PLUS SYN UNLABELED (135	5821-03-3)		
Ecology - soil	Not available.		
DECHLORANE 602 UNLABELED (31107-44-5			
Ecology - soil	Not available.		
1,4-DIBROMOBENZENE UNLABELED (106-3)	7-6)		
Ecology - soil	Not available.		
12.5. Results of PBT and vPvB assessmer			
TOLUENE UNLABELED (108-88-3)			
PBT: not relevant – no registration required			
12.6. Other adverse effects			
Other adverse effects	: Disposal must be done according to official regulations. Avoid release to the environment.		
SECTION 13: Disposal consideration	s		
13.1. Waste treatment methods			
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and Local 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.		
Additional information	: Handle empty containers with care because residual vapors are flammable.		
Ecology - waste materials	 Dispose of as unused product. 		
SECTION 14: Transport information			
In accordance with ADR / RID / IMDG / IATA / AD)N		
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		

: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

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Hazard labels (DOT)	: 3 - Flammable liquid
	FLAMMABLE LOUID
	3
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) 14.3. Additional information	: 242
Emergency Response Guide (ERG) Number	: 130
Other information	: No supplementary information available.
Other mormation	. No supplementary mormation available.
Overland transport	
Packing group (ADR) Class (ADR)	: II : 3 - Flammable liquid
Hazard identification number (Kemler No.)	
Classification code (ADR)	: F1
Hazard labels (ADR)	: 3 - Flammable liquids
Orange plates	33 1294
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	1
	: 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" of 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	
14.6. Transport in bulk according to Anne	ex II of MARPOL 73/78 and the IBC Code
Not applicable	

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SECTION 15: Regulatory information			
15.1. US Federal regulations			
DECHLORANES AND BFR NATIVE STANDAR	D MIXTURE 10 UG/ML IN NONANE/TOLUENE		
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
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	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard		
SARA Section 313 - Emission Reporting	Subject to reporting requirements of the United States SARA Section 313.		
MIREX UNLABELED (2385-85-5)			
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.		
DECHLORANE PLUS ANTI UNLABELED (1358	21-74-8)		
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.		
DECHLORANE PLUS SYN UNLABELED (1358			
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		
HEXABROMOBENZENE UNLABELED (87-82-1			
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		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
DECHLORANE 602 UNLABELED (31107-44-5)			
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	Delayed (chronic) health hazard		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
TBPH (BIS(2-ETHYLHEXYL)TETRABROMOPH			
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		
TOLUENE UNLABELED (108-88-3)	and Control Act inventory		
Listed on the United States TSCA (Toxic Substar 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		
N-NONANE UNLABELED (111-84-2)			
Listed on the United States TSCA (Toxic Substan	ces Control Act) inventory		
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.		
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	Fire hazard Immediate (acute) health hazard		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		

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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

1,4-DIBROMOBENZENE UNLABELED (106-37-6)		
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	
15.2. International regulations		

CANADA

DECHLORANES AND BFR NATIVE STANDARD MIXTURE 10 UG/ML IN NONANE/TOLUENE	
Listed on the Canadian DSL (Domestic Substances List)	
TOLUENE UNLABELED (108-88-3)	
Listed on the Canadian DSL (Domestic Substances List)	
N-NONANE UNLABELED (111-84-2)	
Listed on the Canadian DSL (Domestic Substances List)	

15.2.1. National regulations

N-NONANE UNLABELED (111-84-2)

15.3. US State regulations

15.3. US State regulations				
DECHLORANES AND BFR	NATIVE STANDARD MIXT	URE 10 UG/ML IN NONANE/T	OLUENE	
U.S California - Propositio	n 65 - Carcinogens List	No		
U.S California - Propositio Toxicity	n 65 - Developmental	Yes		
U.S California - Propositio Toxicity - Female	n 65 - Reproductive	No		
U.S California - Propositio Toxicity - Male	n 65 - Reproductive	No		
State or local regulations		U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S New Jersey - Right to Know Hazardous Substance List U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances		
MIREX UNLABELED (2385	-85-5)			
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	
DECHLORANE PLUS ANTI UNLABELED (135821-74-8)				
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	
DECHLORANE PLUS SYN	UNLABELED (135821-03-3	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)

Yes	Yes	Yes	Yes	
HEXABROMOBENZENE UNLABELED (87-82-1)				
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)
No	No	No	No	

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DECHLORANE 602 UNLA				
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	
	•	TE) UNLABELED (26040-51-7	•	
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	
TOLUENE UNLABELED (1	08-88-3)			
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	
N-NONANE UNLABELED				F
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	
1,4-DIBROMOBENZENE U		-		
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	
MIREX UNLABELED (2385	5-85-5)			
State or local regulations				
U.S Massachusetts - Righ U.S Pennsylvania - RTK (U.S New Jersey - Right to		List		
DECHLORANE PLUS ANT	I UNLABELED (135821-74-8)		
State or local regulations				
U.S Pennsylvania - RTK (U.S New Jersey - Right to	(Right to Know) List Know Hazardous Substance	List		
DECHLORANE PLUS SYN	UNLABELED (135821-03-3)		
State or local regulations				
U.S Pennsylvania - RTK (U.S New Jersey - Right to	(Right to Know) List Know Hazardous Substance	List		
HEXABROMOBENZENE U	INLABELED (87-82-1)			
State or local regulations				
U.S Pennsylvania - RTK (U.S New Jersey - Right to	(Right to Know) List Know Hazardous Substance	List		
TBPH (BIS(2-ETHYLHEXY	L)TETRABROMOPHTHALA	TE) UNLABELED (26040-51-7	7)	
State or local regulations				
U.S New Jersey - Right to U.S Pennsylvania - RTK (o Know Hazardous Substance (Right to Know) List	List		
TOLUENE UNLABELED (1	08-88-3)			
State or local regulations				
	Discharge Requirements - Re	portable Quantities		
U.S Delaware - Pollutant I	Know Hazardous Substance			

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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

TOLUENE UNLABELED (108-88-3)		
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		
N-NONANE UNLABELED (111-84-2)		
State or local regulations		
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations		
U.S New Jersey - Right to Know Hazardous Substance List		
U.S Massachusetts - Right To Know List		
U.S Pennsylvania - RTK (Right to Know) List		
U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances		
1,4-DIBROMOBENZENE UNLABELED (106-37-6)		
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		

SECTION 16: Other information

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

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

Acute Tox. 3 (Inhilation) Acute toxicity (Inhilation) Category 3 Acute Tox. 4 (Dermal) Acute toxicity (Inhilation) Category 4 Acute Tox. 4 (Inhilation) Acute toxicity (Inhilation) Category 4 Acute Tox. 4 (Inhilation) Acute toxicity (Inhilation) Category 4 Acute Tox. 4 (Inhilation) Acute toxicity (Inhilation) Category 4 Acute Tox. 4 (Inhilation) Acute toxicity (Inhilation) Category 4 Aquatic Acute 1 Hazardous to the aquatic environment - Acute Hazard Category 1 Aquatic Chronic 1 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment - Chronic Hazard Category 2 Eye Irrit. 2 Serious eye damage/eye irritation Category 2 Eye Irrit. 2 Serious eye damage/eye irritation Category 2 Flam. Liq. 3 Flammable liquids Category 3 Repr. 2 Reproductive toxicity (category 2 Stin Irrit. 2 Skin corrosion/irritation Category 2 STOT SE 2 Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor <		
Acute Tox. 3 (Oral) Acute toxicity (oral) Category 3 Acute Tox. 4 (Demail) Acute toxicity (dermal) Category 4 Acute Tox. 4 (Inhalation) Acute toxicity (inhalation): Category 4 Acute Tox. 4 (Inhalation) Acute toxicity (inhalation): Category 4 Acute Tox. 4 (Inhalation) Acute toxicity (inhalation): Category 4 Acute Tox. 4 (Oral) Acute toxicity (inhalation): Category 4 Aquatic Acute1 Hazardous to the aquatic environment - Acute Hazard Category 1 Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment - Chronic Hazard Category 4 Asp. Tox. 1 Aspiration hazard Category 1 Carc. 2 Carcinogenicity Category 2 Eye Irrit. 2 Serious eye damage/eye irritation Category 2 Flam. Liq. 3 Flammable liquids Category 2 Skin Irrit. 2 Skin corrosion/irritation Category 2 Strot RE 2 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 <td>Acute Tox. 3 (Dermal)</td> <td>Acute toxicity (dermal) Category 3</td>	Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 4 (Dermal) Acute toxicity (dermal) Category 4 Acute Tox. 4 (Inhalation) Acute toxicity (inhalation) Category 4 Acute Tox. 4 (Inhalation:vapour) Acute toxicity (inhalation:vapour) Category 4 Acute Tox. 4 (Inhalation:vapour) Acute toxicity (oral) Category 4 Aquatic Chronic 1 Hazardous to the aquatic environment - Acute Hazard Category 1 Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment - Chronic Hazard Category 4 Asp. Tox. 1 Aspiration hazard Category 1 Carc. 2 Carcinogenicity Category 2 Eye Irnit. 2 Serious eye damage/eye irritation Category 2 Flam. Liq. 3 Flammable liquids Category 2 Flam. Liq. 3 Flammable liquids Category 2 Skin Irnit. 2 Specific target organ toxicity (single exposure) Category 2 STOT RE 2 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 4 Haxmful fi swallowed H302 Harmful fi swallowed H303 Toxic fi swallowed H304 May be fatal if swallowed and enters ainways H311 <td></td> <td></td>		
Acute Tox. 4 (Inhalation) Acute toxicity (inhalation:vapour) Acute Tox. 4 (Inhalation:vapour) Acute toxicity (inhalation:vapour) Acute Tox. 4 (Oral) Acute toxicity (oral) Category 4 Aquatic Acute 1 Hazardous to the aquatic environment - Acute Hazard Category 1 Aquatic Chronic 1 Hazardous to the aquatic environment - Chronic Hazard Category 1 Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment - Chronic Hazard Category 4 Asp. Tox. 1 Aspiration hazard Category 1 Carc. 2 Carcinogenicity Category 2 Eye Irrit. 2 Serious eye damage/eye irritation Category 2 Flam. Liq. 3 Flammable liquids Category 3 Repr. 2 Reproductive toxicity Category 2 Stin Irrit. 2 Skin corrosion/irritation Category 2 Stort RE 2 Specific target organ toxicity (single exposure) Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor H226 Flammable liquid and vapor H301 Toxic i nontact with skin H312 Harmful if swallowed H334 Toxic i nontact w	, , ,	
Acute Tox. 4 (Inhalation:vapour) Acute toxicity (inhalation:vapour) 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 1 Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment - Chronic Hazard Category 4 Asp. Tox. 1 Aspiration hazard Category 1 Carc. 2 Carcinogenicity Category 2 Eye Irnit. 2 Serious eye damage/eye irritation Category 2 Flam. Liq. 3 Flammable liquids Category 2 Flam. Liq. 3 Flammable liquids Category 2 Stron TRE 2 Specific target organ toxicity (single exposure) Category 2 STOT SE 2 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 H301 Toxic if swallowed H302 Harmful if swallowed H304 May be fatal if swallowed and enters airways H311 Toxic if inhaled H312 <t< td=""><td></td><td></td></t<>		
Acute Tox. 4 (Oral) Acute toxicity (oral) Category 4 Aquatic Acute 1 Hazardous to the aquatic environment - Acute Hazard Category 1 Aquatic Chronic 1 Hazardous to the aquatic environment - Chronic Hazard Category 1 Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment - Chronic Hazard Category 2 Carc. 2 Carcinogenicity Category 2 Eye Irrit. 2 Serious eye damage/eye irritation Category 2 Flam. Liq. 3 Flammable liquids Category 3 Repr. 2 Reproductive toxicity Category 2 Stin Irrit. 2 Skin corrosion/Irritation Category 2 STOT RE 2 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 H226 Flammable liquid and vapor H301 Toxic if swallowed H311 Toxic if swallowed an	Acute Tox. 4 (Inhalation)	
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Aquatic Chronic 1Hazardous to the aquatic environment - Chronic Hazard Category 1Aquatic Chronic 2Hazardous to the aquatic environment - Chronic Hazard Category 2Aquatic Chronic 4Hazardous to the aquatic environment - Chronic Hazard Category 4Asp. Tox. 1Aspiration hazard Category 1Carc. 2Carcinogenicity Category 2Eye Irrit. 2Serious eye damage/eye irritation Category 2Flam. Liq. 2Flammable liquids Category 2Flam. Liq. 3Flammable liquids Category 2Skin Irrit. 2Skin corrosion/irritation Category 2Stort RE 2Specific target organ toxicity (repeated exposure) Category 2STOT RE 2Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3H226Flammable liquid and vaporH226Flammable liquid and vaporH301Toxic if swallowedH302Harmful if swallowedH311Toxic in contact with skinH312Harmful in contact with skinH313Toxic in inhaledH322Harmful in contact with skinH314Toxic in haledH323May cause respiratory irritationH336May cause respiratory irritationH336May cause drowsiness or dizzinessH361Suspected of causing cancerH361Suspected of damaging fertility or the unborn child	Acute Tox. 4 (Oral)	
Aquatic Chronic 2Hazardous to the aquatic environment - Chronic Hazard Category 2Aquatic Chronic 4Hazardous to the aquatic environment - Chronic Hazard Category 4Asp. Tox. 1Aspiration hazard Category 1Carc. 2Carcinogenicity Category 2Eye Irrit. 2Serious eye damage/eye irritation Category 2Flam. Liq. 2Flammable liquids Category 3Repr. 2Reproductive toxicity Category 2Skin Irrit. 2Skin corrosion/irritation Category 2Stort RE 2Specific target organ toxicity (repeated exposure) Category 2STOT RE 2Specific target organ toxicity (single exposure) Category 2STOT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3H226Flammable liquid and vaporH301Toxic if swallowedH302Harmful if swallowed and enters airwaysH311Toxic in contact with skinH312Harmful in contact with skinH313Toxic if inhaledH324Harmful if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzlnessH351Suspected of causing cancerH351Suspected of causing cancer	Aquatic Acute 1	
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Carc. 2Carcinogenicity Category 2Eye Irrit. 2Serious eye damage/eye irritation Category 2Flam. Liq. 2Flammable liquids Category 3Repr. 2Reproductive toxicity Category 2Skin Irrit. 2Skin corrosion/Irritation Category 2STOT RE 2Specific target organ toxicity (repeated exposure) Category 2STOT SE 3Specific target organ toxicity (single exposure) Category 3REDT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3H225Highly flammable liquid and vaporH226Flammable liquid and vaporH301Toxic if swallowedH302Harmful if swallowedH311Toxic in contact with skinH312Harmful in contact with skinH313Toxic if inhaledH334Toxic if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizznessH361Suspected of damaging fertility or the unborn child		Hazardous to the aquatic environment - Chronic Hazard Category 4
Eye Irrit. 2Serious eye damage/eye irritation Category 2Flam. Liq. 2Flammable liquids Category 2Flam. Liq. 3Flammable liquids Category 2Repr. 2Reproductive toxicity Category 2Skin Irrit. 2Skin corrosion/irritation Category 2STOT RE 2Specific target organ toxicity (repeated exposure) Category 2STOT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3H225Highly flammable liquid and vaporH226Flammable liquid and vaporH301Toxic if swallowedH302Harmful if swallowedH311Toxic in contact with skinH312Harmful in contact with skinH314Toxic if inhaledH322Harmful if inhaledH333Toxic if inhaledH334May cause respiratory irritationH335May cause drowsines or dizzinessH361Suspected of damaging fertility or the unborn child		Aspiration hazard Category 1
Flam. Liq. 2Flammable liquids Category 2Flam. Liq. 3Flammable liquids Category 3Repr. 2Reproductive toxicity Category 2Skin Irrit. 2Skin corrosion/irritation Category 2STOT RE 2Specific target organ toxicity (repeated exposure) Category 2STOT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3Highly flammable liquid and vaporHighly flammable liquid and vaporH226Flammable liquid and vaporH301Toxic if swallowedH302Harmful if swallowedH311Toxic in contact with skinH315Causes skin irritationH316Causes serious eye irritationH332Harmful if inhaledH335May cause drowsines or dizznessH336May cause drowsines or dizznessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child	Carc. 2	Carcinogenicity Category 2
Flam. Liq. 3Flammable liquids Category 3Repr. 2Reproductive toxicity Category 2Skin Irrit. 2Skin corrosion/irritation Category 2STOT RE 2Specific target organ toxicity (repeated exposure) Category 2STOT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3H225Highly flammable liquid and vaporH226Flammable liquid and vaporH301Toxic if swallowedH302Harmful if swallowedH311Toxic in contact with skinH312Harmful in contact with skinH313Toxic if inhaledH334May cause serious eye irritationH335May cause respiratory irritationH336May cause drowiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child	Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Repr. 2Reproductive toxicity Category 2Skin Irrit. 2Skin corrosion/irritation Category 2STOT RE 2Specific target organ toxicity (repeated exposure) Category 2STOT SE 2Specific target organ toxicity (single exposure) Category 2STOT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3H225Highly flammable liquid and vaporH226Flammable liquid and vaporH301Toxic if swallowedH302Harmful if swallowedH311Toxic in contact with skinH315Causes skin irritationH316Causes serious eye irritationH331Toxic if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH361Suspected of damaging fertility or the unborn child	Flam. Liq. 2	Flammable liquids Category 2
Skin Irrit. 2Skin corrosion/irritation Category 2STOT RE 2Specific target organ toxicity (repeated exposure) Category 2STOT SE 2Specific target organ toxicity (single exposure) Category 2STOT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3H225Highly flammable liquid and vaporH226Flammable liquid and vaporH301Toxic if swallowedH302Harmful if swallowedH311Toxic in contact with skinH312Harmful in contact with skinH313Toxic if inhaledH332Harmful if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child	Flam. Liq. 3	Flammable liquids Category 3
STOT RE 2Specific target organ toxicity (repeated exposure) Category 2STOT SE 2Specific target organ toxicity (single exposure) Category 2STOT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3H225Highly flammable liquid and vaporH226Flammable liquid and vaporH301Toxic if swallowedH302Harmful if swallowedH311Toxic in contact with skinH312Harmful in contact with skinH313Causes skin irritationH314Toxic if inhaledH322Harmful in contact with skinH315Causes serious eye irritationH331Toxic if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child	Repr. 2	Reproductive toxicity Category 2
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STOT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3H225Highly flammable liquid and vaporH226Flammable liquid and vaporH301Toxic if swallowedH302Harmful if swallowedH304May be fatal if swallowed and enters airwaysH311Toxic in contact with skinH312Harmful in contact with skinH313Causes skin irritationH314Toxic if inhaledH325Harmful if inhaledH336May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child	STOT RE 2	
STOT SE 3Specific target organ toxicity (single exposure) Category 3H225Highly flammable liquid and vaporH226Flammable liquid and vaporH301Toxic if swallowedH302Harmful if swallowedH304May be fatal if swallowed and enters airwaysH311Toxic in contact with skinH312Harmful in contact with skinH313Causes skin irritationH314Toxic if inhaledH322Harmful if inhaledH332Harmful if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child	STOT SE 2	Specific target organ toxicity (single exposure) Category 2
H225Highly flammable liquid and vaporH226Flammable liquid and vaporH301Toxic if swallowedH302Harmful if swallowedH304May be fatal if swallowed and enters airwaysH311Toxic in contact with skinH312Harmful in contact with skinH315Causes skin irritationH311Toxic if inhaledH322Harmful if inhaledH331Toxic if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226Flammable liquid and vaporH301Toxic if swallowedH302Harmful if swallowedH304May be fatal if swallowed and enters airwaysH311Toxic in contact with skinH312Harmful in contact with skinH315Causes skin irritationH319Causes serious eye irritationH332Harmful i inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H301Toxic if swallowedH302Harmful if swallowedH304May be fatal if swallowed and enters airwaysH311Toxic in contact with skinH312Harmful in contact with skinH315Causes skin irritationH319Causes serious eye irritationH331Toxic if inhaledH332Harmful if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child	H225	Highly flammable liquid and vapor
H302Harmful if swallowedH304May be fatal if swallowed and enters airwaysH311Toxic in contact with skinH312Harmful in contact with skinH315Causes skin irritationH319Causes serious eye irritationH331Toxic if inhaledH332Harmful if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child	H226	Flammable liquid and vapor
H304May be fatal if swallowed and enters airwaysH311Toxic in contact with skinH312Harmful in contact with skinH315Causes skin irritationH319Causes serious eye irritationH331Toxic if inhaledH332Harmful if inhaledH336May cause respiratory irritationH336Suspected of causing cancerH361Suspected of damaging fertility or the unborn child	H301	Toxic if swallowed
H311Toxic in contact with skinH312Harmful in contact with skinH315Causes skin irritationH319Causes serious eye irritationH331Toxic if inhaledH332Harmful if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child	H302	Harmful if swallowed
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H319Causes serious eye irritationH331Toxic if inhaledH332Harmful if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child	H312	Harmful in contact with skin
H331Toxic if inhaledH332Harmful if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child	H315	Causes skin irritation
H332Harmful if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child	H319	Causes serious eye irritation
H335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child	H331	Toxic if inhaled
H336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child	H332	Harmful if inhaled
H351 Suspected of causing cancer H361 Suspected of damaging fertility or the unborn child		May cause respiratory irritation
H361 Suspected of damaging fertility or the unborn child		May cause drowsiness or dizziness
	H351	Suspected of causing cancer
H371 May cause damage to organs	H361	Suspected of damaging fertility or the unborn child
	H371	May cause damage to organs
H373 May cause damage to organs through prolonged or repeated exposure	H373	May cause damage to organs through prolonged or repeated exposure

IN NONANE/TOLUENE ES-5606

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

H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life
R10	Flammable
R11	Highly flammable
R20	Harmful by inhalation
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R21/22	Harmful in contact with skin and if swallowed
R23	Toxic by inhalation
R36/37/38	Irritating to eyes, respiratory system and skin
R36/38	Irritating to eyes and skin
R37	Irritating to respiratory system
R38	Irritating to skin
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
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
R68	Possible risk of irreversible effects
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.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard

: 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

Physical

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