

### 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: 25/03/2015 Revision date: 02/05/2019 Supersedes: 25/03/2015 Version: 2.0 ULM-4834-S

SECTION 4. Identification of the out	estones/mixture and of the company/undertaking			
1.1. Product identifier	ostance/mixture and of the company/undertaking			
Product form	: Mixtures			
Product name	: ALPHA-HEXABROMOCYCLODODECANE UNLABELED 50 UG/ML IN TOLUENE			
Product code	: ULM-4834-S			
	stance or mixture and uses advised against			
	Stance of 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)				
<b>SECTION 2: Hazards identification</b>				
2.1. Classification of the substance or r	nixture			
Classification according to Regulation (EC)	No. 1272/2008 [CLP]			
Flam. Liq. 2 H225				
Skin Irrit. 2 H315				
Repr. 2 H361				
STOT SE 3 H336				
STOT RE 2 H373				
Asp. Tox. 1 H304	Asp. Tox. 1 H304			
Aquatic Acute 1 H400				
Full text of hazard classes and H-statements : s	see section 16			
Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] F; R11				
Xn; R65 Xi; R38				
R67 R48				
N; R50				
Repr.Cat.3; R62 Repr.Cat.3; R63				
1001.001.0, 100				

#### **GHS-US** classification

 Flam. Liq. 2
 H225

 Skin Irrit. 2
 H315

 Repr. 2
 H361

 STOT SE 3
 H336

 STOT RE 2
 H373

 Aquatic Acute 1
 H400

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.



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<ul> <li>P308+P313 - If exposed or concerned: Get medical advice/attention.</li> <li>P312 - Call a poison center or doctor if you feel unwell</li> <li>P314 - Get medical advice/attention if you feel unwell.</li> <li>P321 - Specific treatment (see supplemental first aid instruction on this label)</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention.</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P370+P378 - In case of fire: Use media other than water to extinguish.</li> <li>P391 - Collect spillage.</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed.</li> <li>P405 - Store locked up.</li> </ul>
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

PBT: not relevant - no registration required

### SECTION 3: Composition/Information on ingredients

3.1. Substances

#### Not applicable

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	99.9942	F; R11 Xi; R38 Xn; R65 Repr.Cat.3; R62 Repr.Cat.3; R63 R67 N; R51/53 Xn; R48/20
ALPHA-HEXABROMOCYCLODODECANE UNLABELED substance listed as REACH Candidate (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified) substance listed in REACH Annex XIV (Hexabromocyclododecane (HBCDD) (alpha-, beta-, gamma-))	(CAS-No.) 134237-50-6	0.0058	Xi; R36 N; R50/53
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	99.9942	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
ALPHA-HEXABROMOCYCLODODECANE UNLABELED substance listed as REACH Candidate (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified) substance listed in REACH Annex XIV (Hexabromocyclododecane (HBCDD) (alpha-, beta-, gamma-))	(CAS-No.) 134237-50-6	0.0058	Lact., H362 Repr. 2, H361 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
Name	Product identifier	%	GHS-US classification
TOLUENE UNLABELED	(CAS-No.) 108-88-3	99.9942	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
ALPHA-HEXABROMOCYCLODODECANE UNLABELED	(CAS-No.) 134237-50-6	0.0058	Lact., H362 Repr. 2, H361 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.	

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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 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 effe	s, both acute and delayed
Symptoms/effects	: Suspected of damaging fertility. Suspected of damaging the unborn child. (in contact with ski 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	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes skin irritation. Repeated exposure to this material can result in absorption through sk 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.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Dry powder. Dry sand. Dry chemical. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the su	ibstance or mixture
Fire hazard	: Highly flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
Reactivity	: Vapors may form flammable mixture with air. Highly flammable liquid and vapor.
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. Wear recommended personal protective equipment.
Other information	: Use water spray to cool exposed surfaces.

SECTI	SECTION 6: Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures				
General	measures	:	Flammable liquids. No open flames. No smoking. Eliminate every possible source of ignition. Use special care to avoid static electric charges.		
6.1.1.	For non-emergency personnel				
Emerger	ncy procedures	:	Use personal protective equipment as required. Ensure adequate air ventilation. Avoid breathing vapors, mist, gas. Eliminate all ignition sources if safe to do so. Evacuate unnecessary personnel. Special attention should be given to low areas/pits where flammable vapors can accumulate.		
6.1.2.	For emergency responders				
Protectiv	e 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 liquid from entering sewers, watercourses, underground or low areas. Do not allow to enter drains or water courses. Do not discharge the product into the environment.

6.3.	Methods and material for containment and cleaning up			
For cont	ainment	: Dike and contain spill.		
Methods	s for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or publi waters. This material and its container must be disposed of in a safe way, and as per local legislation.	С	
Other in	formation	: Dispose of materials or solid residues at an authorized site.		
6.4.	Reference to other sections			
For furth	For further information refer to section 13.			

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Avoid all eye and skin contact and do not breathe vapor and mist. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not breathe dust, fume, gas, spray, vapors, mist. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. No open flames. No smoking. 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.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands, forearms and face thoroughly after handling.
7.2. Conditions for safe storage, includ	ng any incompatibilities
Technical measures	: Ground/bond container and receiving equipment. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof Lighting equipment, ventilating equipment.
Storage conditions	: Store refrigerated (-5 °C to 5 °C). Protect from light.
Incompatible materials	: Heat sources.
Storage area	: Under inert gas.
7.3. Specific end use(s)	

No additional information available

### SECTION 8: Exposure controls/personal protection

ALPHA-HEXABROMOCYCL	ODODECANE UNLABELED 50 UG/ML IN T	OLUENE
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 tt 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 <sup>3</sup> 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 <sup>3</sup> )	560 mg/m <sup>3</sup> 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 <sup>3</sup> 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 <sup>3</sup> 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

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ALPHA-HEXABROMOCYCLO	DODDECANE UNLABELED 50 UG/ML IN	TOLUENE
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
<b>TOLUENE UNLABELED (108</b>	-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/m³)	375 mg/m <sup>3</sup> 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 <sup>3</sup> )	560 mg/m <sup>3</sup> 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 <sup>3</sup> 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 <sup>3</sup> 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
- : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



- Materials for protective clothing Hand protection Eye protection Skin and body protection
- : 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.

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Respiratory protection	In case of inadequate ventilation wear respiratory protection. Approved supplied air respiratory where exposure through inhalation may occur from use, respiratory protection equipment recommended. Wear respiratory protection.	
Environmental exposure controls	Avoid release to the environment.	

### 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 compo	nent of this mixture.
Physical state	: Liquid
Appearance	: Liquid
Molecular mass	: 92.14 g/mol
Color	: Colorless
Odor	: Aromatic
Odor threshold	: No data available
рН	: 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	: Water: 0.5 g/l at 15 °C (59 °F)
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	

9.2. Other information No additional information available

SECTION 10: Stability and reactivity	
Section 10. Stability and reactivity	
10.1. Reactivity	
Vapors may form flammable mixture with air. Highly flammable liquid and vapor.	
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 : Not classified	

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LD50 oral rat       > 5580 mg/kg         LD50 dermal rabbit       12196 mg/kg         ATE CLP (yors)       12.500 mg/k4         ATE CLP (yors)       12.500 mg/k4         ATE CLP (rota)       20000 mg/kg         ATE CLP (rota)       20000 mg/kg         LD50 oral rat       20000 mg/kg         LD50 oral rat       20000 mg/kg         LD50 oral rat       12166 mg/kg         LD50 oral rat       12106 mg/kg         LD50 oral rat       12100 mg/kg         LD50 oral rat       12500 mg/kh         TE CLP (yors)       12500 mg/kh         ATE CLP (duran, and (mg/kg)       12500 mg/kh         Skin crossion/irritation       Skin - Rabbit - Causes skin irritation - 24 Hours         Serious eye damage/irritation       Not classified         Eyes - Rabbit - No eye irritation - (OECD 405 method)         Respiratory o	ALPHA-HEXABROMOCYCLODODECANE U	NLABELED 50 UG/ML IN TOLUENE
LD50 dermal rabbit       12196 mg/kg         LC50 inhalation rat (mgi)       12,500 - 28,800 mg/kg body weight         ATE CLP (kemal)       12196.000 mg/kg body weight         ATE CLP (kemal)       12,500 mg/k/h         ATE CLP (kus, nist)       12,500 mg/k/h         ATE CLP (kus, nist)       12,500 mg/k/h         ATE CLP (kus, nist)       12,500 mg/kg         LD50 oral rat       20000.000 mg/kg         D50 dermal rabbit       12196 000 mg/kg         LD50 oral rat       > 6580 mg/kg         LD50 oral rat       > 6580 mg/kg         LD50 oral rat       > 12196 000 mg/kg body weight         ATE CLP (kemal)       12196 000 mg/kg body weight         ATE CLP (kemal)       12196 000 mg/kg body weight         ATE CLP (kemal)       122500 mg/kh         Skin corrosion/initiation       : Causes skin initiation.         Skin corrosion/initiation       : Causes skin initiation - 24 Hours         Serious eye damage/initiation       : Not classified         Gern cell multagenicity       : Rat - Liver - DNA Damage         Carcinogenicity       : Not classified         Reproductive toxicity       : Damage to fetus possible. Suspected human reproductive toxicant.         Reproductive toxicity       : Damage to fetus possible. Suspected human reproductive toxicant. <th></th> <th></th>		
LCS0 inhilation rat (mg/l)       12.500 mg/kg body weight         ATE CLP (dermal)       12196.000 mg/kg body weight         ATE CLP (quors)       12.500 mg/kh         ALPHA-HEXABROMOCYCLODODECANE UNLABELED (13427-50-6)       10.500 rat at         LD50 oral rat       20000.000 mg/kg body weight         TOLUENE UNLABELED (108-88-3)       10.500 mg/kg         LD50 dermal rabbit       12.500 mg/kg         LD50 dermal rabbit       12.500 mg/kg         ATE CLP (dest mist)       12.500 mg/kg         ATE CLP (dest mist)       12.500 mg/kh         ATE CLP (dust mist)       12.500 mg/kh         ATE CLP (quors)       2.500 mg/kh         ATE CLP (quors)       12.500 mg/kh         Skin c arabit       Causes skin irritation.         Skin c arabit       Causes skin irritation.         Skin c arabit       Not dassified         Germ call mutagenicity       Rat - Liver - DNA Damage         Carcinogenicity       Not dassified         Specific target organ toxicity - single exposure       May cause dorwisness or dizziness.         Specific t		
ATE CLP (dermal)       12196.000 mg/kg body weight         ATE CLP (vepors)       12.500 mg/k4h         ATE CLP (dust. mist)       12.500 mg/k4h         ALPHA-HEXABROMOCYCLODDECANE UNLABELED (134237-50-6)       10.000 mg/kg         LD50 oral ret       20000 mg/kg         ATE CLP (vent)       200000 mg/kg body weight         TOLURE UNLABELED (106-88-3)       10.000 mg/kg body weight         LD50 oral ret       > 5580 mg/kg         LD50 oral ret       12196 000 mg/kg body weight         TOLURE UNLABELED (106-88-3)       12196 000 mg/kg body weight         LD50 oral ret       > 5580 mg/kg         LD50 oral ret       12196 000 mg/kg body weight         ATE CLP (demal)       12196 000 mg/kg body weight         ATE CLP (vapors)       12.500 mg/k4h         ATE CLP (vapors)       12.500 mg/k4h         Skin corrosion/irritation       : Causes skin irritation - 24 Hours         Serious eye damage/irritation       : Not classified         Eyes – Rabbit - No eye irritation - 0/ECD 405 method)         Respiratory or skin sensitization       : Not classified         Gern coll mulagenchty       : Rat - Liver - DNA Damage         Carcinogenicity       : Not classified         Reproductive toxicity       : Bamage to feus possible. Supostible: Superted human reproductive toxica		
ATE CLP (vapors)       12.500 mg/4h         ATE CLP (dust, mist)       12.500 mg/4h         ALPHA-HEXABROMCCYCLODODECANE UNLABELED (134237-50-6)       10000 mg/kg         LD50 oral rat       20000.000 mg/kg body weight         TOLUENE UNLABELED (106-88-3)       12196 mg/kg         LD50 oral rat       > 5580 mg/kg         LD50 dermal rabbit       12196 mg/kg         LC50 inhalation rat (mg/l)       12.500 mg/kb hody weight         ATE CLP (vapors)       12.500 mg/kb hody weight		
ATE CLP (dust, mist)       12.500 mg/lv4h         ALPHA-HEXABROMOCYCLODODECANE UNLABELED (134237-50-6)       LD50 oral rat         LD50 oral rat       20000 mg/kg body weight         ATE CLP (oral)       20000.000 mg/kg body weight         TOLUNE UNLABELED (106-88-3)       5580 mg/kg         LD50 oral rat       > 5580 mg/kg         LD50 oral rat       > 5580 mg/kg         LD50 inhalation rat (mg/l)       12.196 mg/kg         LC50 inhalation rat (mg/l)       12.500 mg/lv4h         ATE CLP (demai)       12.500 mg/lv4h         ATE CLP (demai)       12.500 mg/lv4h         Skin corrosion/irritation       Causes skin irritation.         Skin corrosion/irritation       Causes skin irritation - 24 Hours         Serious eye damage/irritation       Not classified         Germ cell mutagenicity       Rat - Liver - DNA Damage         Carcinogenicity       Not classified         Reproductive toxicity       Damage to fetus possible. Suspected human reproductive toxicant.         Reproductive toxicity       Damage to fetus possible. Suspected human reproductive toxicant.         Reproductive toxicity       Lossified         Specific target organ toxicity – single exposure       May cause drawsiness or dizziness.         Specific target organ toxicity – single exposure       May cause drawsiness or di		
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<ul> <li>Potential Adverse human health effects and symptoms</li> <li>Symptoms/effects. 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.</li> <li>IARC group</li> <li>3</li> <li>Symptoms/effects after inhalation</li> <li>May cause drowsiness or dizziness.</li> <li>Symptoms/effects after skin contact</li> <li>Causes skin irritation. Repeated exposure to this material can result in absorption through skin causing significant health hazard.</li> <li>Symptoms/effects after eye contact</li> <li>May cause eye irritation.</li> </ul>	Aspiration hazard	· May be fatal if swallowed and enters airways
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Symptoms/effects after inhalation       : May cause drowsiness or dizziness.         Symptoms/effects after skin contact       : 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	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
Symptoms/effects after skin contact: 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.	IARC group	: 3
causing significant health hazard.         Symptoms/effects after eye contact         :       May cause eye irritation.	Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
	Symptoms/effects after skin contact	
Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. Risk of lung edema.	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.

<b>SECTION 12: Ecological information</b>		
12.1. Toxicity		
Ecology - general	: Toxic to bees.	
Ecology - water	: Very toxic to aquatic life.	
ALPHA-HEXABROMOCYCLODODECANE UNLABELED 50 UG/ML IN TOLUENE		
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	

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ALPHA-HEXABROMOCYCLODODECANE	UNLABELED 50 UG/ML IN TOLUENE
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
ALPHA-HEXABROMOCYCLODODECANE	E UNLABELED (134237-50-6)
LC50 fish 1	0.003 mg/l Method:OCD Test Guideline 203, Oncorhynchus mykiss(rainbow trout)- 96 h
EC50 Daphnia 1	> 3.2 mg/l
ErC50 (algae)	0.009 mg/l -
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

12.2. Persistence and degradability	
ALPHA-HEXABROMOCYCLODODECANE UN	JLABELED 50 UG/ML IN TOLUENE
Persistence and degradability	Readily biodegradable.
TOLUENE UNLABELED (108-88-3)	
Persistence and degradability	Readily biodegradable.
12.3. Bioaccumulative potential	
ALPHA-HEXABROMOCYCLODODECANE UN	VLABELED 50 UG/ML IN TOLUENE
BCF fish 1	0.05 mg/l Leuciscus idus (Golden orfe) - 3 d
Bioconcentration factor (BCF REACH)	90
ALPHA-HEXABROMOCYCLODODECANE UN	NLABELED (134237-50-6)
Log Pow	5.62
Bioaccumulative potential	Not available.
TOLUENE UNLABELED (108-88-3)	
BCF fish 1	0.05 mg/l Leuciscus idus (Golden orfe) - 3 d
Bioconcentration factor (BCF REACH)	90
12.4. Mobility in soil	
ALPHA-HEXABROMOCYCLODODECANE UN	NLABELED (134237-50-6)
Ecology - soil	Not available.
12.5. Results of PBT and vPvB assessme	nt
ALPHA-HEXABROMOCYCLODODECANE UN	ILABELED 50 UG/ML IN TOLUENE
PBT: not relevant – no registration required	
ALPHA-HEXABROMOCYCLODODECANE UN	VLABELED (134237-50-6)
This substance/mixture meets the PBT criteria	of REACH, annex XIII
This substance/mixture does not meet the vPvE	s criteria of REACH, annex XIII
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

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. Dispose of contents/container to 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.

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SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / A	ADN
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
Packing group (DOT)	: II - Medium Danger
DOT Special Provisions (49 CFR 172.102)	<ul> <li>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</li></ul>
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
Marine pollutant	: No
14.3.         Additional information           Other information         ••••••••••••••••••••••••••••••••••••	: No supplementary information available.
Overland transport	
Packing group (ADR)	: II
Class (ADR)	: 3 - Flammable liquid
Hazard identification number (Kemler No.)	: 33
Classification code (ADR)	: F1
Hazard labels (ADR)	: 3 - Flammable liquids
Orange plates	33 1294
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	11
EAC	: 3YE
Excepted quantities (ADR)	: E2
Transment husan	
Transport by sea	. D. (i) The meterial may be atough "an dealy" or "worder dealy" on a correction of an deal of
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
02/05/2019	EN (English US) 10/13

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Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
Civil Aeronautics Law	: Flammable liquids

14.4.	Environmental hazards		
Other in	nformation	: No supplementary information available.	
14.5.	Special precautions for user		
14.6.	Transport in bulk according to	Annex II of MARPOL 73/78 and the IBC Code	

Not applicable

SECTION 15: Regulatory information	on
15.1. US Federal regulations	
ALPHA-HEXABROMOCYCLODODECANE	UNLABELED 50 UG/ML IN TOLUENE
Listed on the United States TSCA (Toxic Sub-	stances Control Act) inventory
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 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
5.2. International regulations	

#### CANADA

ALPHA-HEXABROMOCYCLODODECANE UNLABELED 50 UG/ML IN TOLUENE	
Listed on the Canadian DSL (Domestic Substances List)	
TOLUENE UNLABELED (108-88-3)	
Listed on the Canadian DSL (Domestic Substances List)	

#### 15.2.1. National regulations

No additional information available

### 15.3. US State regulations

ALPHA-HEXABROMOCYCLODODECANE UNLABELED 50 UG/ML IN TOLUENE				
U.S California - Proposition 65 - Carcinogens List	No			
U.S California - Proposition 65 - Developmental Toxicity	Yes			
U.S California - Proposition 65 - Reproductive Toxicity - Female	No			
U.S California - Proposition 65 - Reproductive Toxicity - Male	No			
No significant risk level (NSRL)	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			

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ALPHA-HEXABROMOCYCLODODECANE UNLABELED (134237-50-6)							
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 UNLABELEI	D (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			
ALPHA-HEXABROMOCYCLODODECANE UNLABELED (134237-50-6)							
State or local regulations							
U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List							
TOLUENE UNLABELED (108-88-3)							
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							

### **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:

	Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1	
	Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1	
	Asp. Tox. 1	Aspiration hazard Category 1	
	Flam. Liq. 2	Flammable liquids Category 2	
	Lact.	Reproductive toxicity (Lact.)	
	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	
	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 or the unborn child	
	H362 May cause harm to breast-fed children		
	H373	May cause damage to organs through prolonged or repeated exposure	
	H400	Very toxic to aquatic life	
	H410	Very toxic to aquatic life with long lasting effects	
	R11	Highly flammable	
	R36	Irritating to eyes	
	R38	Irritating to skin	
	R48	Danger of serious damage to health by prolonged exposure	
	R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation	
	R50	Very toxic to aquatic organisms	
	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	
<u> </u>			

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	R67	Vapors may cause drowsiness and dizziness			
	F	Highly flammable			
	Ν	Dangerous for the environment			
	Xi	Irritant			
	Xn	Harmful			
NFP	A health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.			
NFP	A fire hazard	: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.			
NFP	A reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.			
Haza	ard Rating				
Heal	th	: 2 Moderate Hazard - Temporary or minor injury may occur			
Flam	mability	: 3 Serious Hazard			
Phys	2	: 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