

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: 30/06/2014 Revision date: 10/06/2020 Supersedes: 30/06/2014

CLM-4734-S

Ve	ersi	ion:	2.	0

SECTION 1: Identification of	of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixtures
Product name	: CIS-HEPTACHLOR EPOXIDE (13C10, 99%) 100 UG/ML IN NONANE
Product code	: CLM-4734-S
1.2. Relevant identified uses	s of the substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
ndustrial/Professional use spec	: For professional use only
1.2.2. Uses advised against	
Ŭ	
No additional information available	
1.3. Details of the supplier of	
Cambridge Isotope Laboratories, Inc 50 Frontage Road	С.
Andover, MA 01810	
JSA	
USA: 1-800-322-1174 Int: 1-978-7	
cilsales@isotope.com www.isotop	pe.com
Emergency telephone no	umber
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 hou International: 1-703-741-5970 (24 l	
SECTION 2: Hazards identi	fication
2.1. Classification of the sub	stance or mixture
Classification according to Regul	ation (EC) No. 1272/2008 [CLP]
Flam. Liq. 3 H2	226
Acute Tox. 4 (Inhalation:vapour) H3	332
Skin Irrit. 2 H3	315
Eye Irrit. 2 H3	319
STOT SE 3 H3	336
Asp. Tox. 1 H3	304
Full text of hazard classes and H-sta	atements : see section 16
Classification according to Direct	tive 67/548/EEC [DSD] or 1999/45/EC [DPD]
R10	
Xn; R20	
Xn; R65 Xi; R36/38	
R67	

Full text of R-phrases: see section 16

GHS-US classification

Flam. Liq. 3	H226
Acute Tox. 4 (Inhalation)	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H336
Asp. Tox. 1	H304

Full text of H statements : see section 16

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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	o. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS02 GHS08 GHS07
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H226 - 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
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking. P233 - Keep container tightly closed.
	P235 - Reep container lightly closed. P240 - Ground/bond container and receiving equipment.
	P241 - Use explosion-proof electrical, lighting, ventilating equipment
	P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P264 - Wash hands, forearms and face thoroughly after handling.
	P271 - Use only outdoors or in a well-ventilated area.
	P280 - Wear eye protection, face protection, protective clothing, protective gloves.
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS02 GHS08 GHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H226 - 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
Precautionary statements (GHS-US)	: P210 - Keep away from heat, hot surfaces, open flames, sparks No smoking.
recould have statements (on o co)	P233 - Keep container tightly closed.
	P240 - Ground/Bond container and receiving equipment
	P241 - Use explosion-proof electrical, lighting, ventilating equipment P242 - Use only non-sparking tools.
	P243 - Take precautionary measures against static discharge.
	P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P264 - Wash hands, forearms and face thoroughly after handling.
	P204 - Wash hands, forearns and face thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area.
	P280 - Wear eye protection, face protection, 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 B204, B240, If inhaled: Remove person to fresh air and keep comfortable for breathing
	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
	P312 - Call a doctor, a POISON CENTER if you feel unwell P321 - Specific treatment (see Hazardeus component(s) for labeling on this label)
	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.
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P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry extinguishing powder to extinguish.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

.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	99.986	R10 Xn; R20 Xn; R65 Xi; R36/38 R67
CIS-HEPTACHLOR EPOXIDE (13C10, 99%)	(CAS-No.) 1024-57-3 (Unlabeled) (EC-No.) 213-831-0 (Unlabeled) (EC Index-No.) 602-063-00-5 (Unlabeled)	0.014	Carc.Cat.3; R40 T+; R28 N; R50/53 R48
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	99.986	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
CIS-HEPTACHLOR EPOXIDE (13C10, 99%)	(CAS-No.) 1024-57-3 (Unlabeled) (EC-No.) 213-831-0 (Unlabeled) (EC Index-No.) 602-063-00-5 (Unlabeled)	0.014	Acute Tox. 2 (Oral), H300 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Name	Product identifier	%	GHS-US classification
N-NONANE UNLABELED	(CAS-No.) 111-84-2	99.986	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304
CIS-HEPTACHLOR EPOXIDE (13C10, 99%)	(CAS-No.) 1024-57-3 (Unlabeled)	0.014	Acute Tox. 2 (Oral), H300 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400

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	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell. Give oxygen or artificial respiration if necessary.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
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	: Do not induce vomiting. Call a physician immediately.

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4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after inhalation	: Harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation. May be harmful in contact with skin.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. Risk of lung edema.
4.3. Indication of any immediate med	lical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measure	S
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	: Flammable liquid and vapor.
Reactivity	: Flammable liquid and vapor. Vapors may form flammable mixture with air.
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.
SECTION 6: Accidental release m	easures
	equipment and emergency procedures
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. A	void release to the environment.
6.3. Methods and material for contain	nment 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
Other information	waters.
	: 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.
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. Use only outdoors or in a well-ventilated area. Avoid breathing fume, gas, mist, spray, vapors. Avoid contact with skin and eyes.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, incl	uding any incompatibilities
Technical measures	: Store in a well-ventilated place. Keep container tightly closed. Keep dry. Ground/bond container and receiving equipment.
Storago conditiona	 Store at ream temperature away from light and mainture

: Store at room temperature away from light and moisture.

7.3.	Specific end use(s)

No additional information available

Storage conditions

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SECTION 8: Exposure c	ontrols/personal protection	
.1. Control parameters		
CIS-HEPTACHLOR EPOXIDE	(13C10, 99%) 100 UG/ML IN NONANE	
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.
N-NONANE UNLABELED (11	1-84-2)	<u>.</u>
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.

: Wear suitable protective clothing and gloves.

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



Materials for protective clothing Hand protection Eye protection Skin and body protection Respiratory protection

- : protective gloves.
- : Chemical goggles or face shield. Chemical goggles or safety glasses.
- : Wear suitable protective clothing, gloves and eye/face 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 and chemical properties

The properties listed below are for the solvent, the main component of this mixture.			
Physical state	: Liquid		
Appearance	: Liquid		
Molecular mass	: 128.3 g/mol		

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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	: Not applicable
Freezing point	: -53 °C (- 63 °F) - lit
Boiling point	: 151 °C (304 °F) - lit
Flash point	: 31 °C (87.8 °F) - closed cup
Auto-ignition temperature	: 205 °C (401 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: 5.69 hPa (4.27 mmHg) at 25 °C (77 °F)
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 0.718 g/ml at 25 °C (77 °F)
Solubility	: Water: 0.0002 % at 25 °C (77 °F) - slightly soluble
Log Pow	: 5.65
Log Kow	: No data available
Viscosity, kinematic	: <= 1.008 mm²/s at 20 °C (68 °F)
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: 0.87 - 2.9 % (V)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapor. Vapors may form flammable mixture with air.

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

Avoid contact with hot surfaces. Heat. No flames, No sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Carbon oxides (CO, CO2).

SECTION 11: Toxicological informa	ation	
11.1. Information on toxicological effect	S	
Acute toxicity	: Inhalation:vapour: Harmful if inhaled.	
CIS-HEPTACHLOR EPOXIDE (13C10, 99%) 100 UG/ML IN NONANE		
LC50 inhalation rat (mg/l)	23760 mg/m ³ male - 4 h	
ATE CLP (vapors)	11.000 mg/l/4h	
Skin corrosion/irritation, Dermal, rat	Result: Skin Irritation (Draize Test)	
Additional information	: S. Typhimurium Result: negative	
N-NONANE UNLABELED (111-84-2)		
LC50 inhalation rat (mg/l)	23760 mg/m ³ male - 4 h	
ATE CLP (vapors)	11.000 mg/l/4h	
Skin corrosion/irritation, Dermal, rat	Result: Skin Irritation (Draize Test)	

: S. Typhimurium Result: negative

Additional information

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CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled))					
LD50 oral rat	15 mg/kg				
ATE CLP (oral)	15.000 mg/kg body weight				
Additional information	LD50 Oral Mouse 39 mg/kg. LD50 Oral Rabbit 144 mg/kg				
Skin corrosion/irritation	: Causes skin irritation.				
Serious eye damage/irritation	: Causes serious eye irritation.				
Respiratory or skin sensitization	: Not classified				
Germ cell mutagenicity	: Not classified				
Carcinogenicity	: Not classified				
Reproductive toxicity	: Not classified				
Specific target organ toxicity – single exposure	: May cause drowsiness or dizziness.				
Specific target organ toxicity – repeated exposure	: Not classified				
Aspiration hazard	: May be fatal if swallowed and enters airways.				
Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.				
Symptoms/effects after inhalation	: Harmful if inhaled. May cause respiratory irritation.				
Symptoms/effects after skin contact	: Causes skin irritation. May be harmful in contact with skin.				
Symptoms/effects after eye contact	: Causes serious eye irritation.				
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. Risk of lung edema.				

SECTION 12: Ecological in	formation			
12.1. Toxicity				
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.			
CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled))				
LC50 fish 1	0.02 mg/l Opcorbynchus mykiss (rainbow trout) - 96 h			

CIS-REFTACHEOR EPORIDE (13C10, 99%) (1024-37-3 (Ollabeled))		
LC50 fish 1	0.02 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h	
EC50 Daphnia 1	0.24 mg/l Daphnia magna (Water flea) - 48 h	

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential				
CIS-HEPTACHLOR EPOXIDE (13C10, 99%) 100 UG/ML IN NONANE				
Log Pow	5.65			
Bioaccumulative potential	Indication of bioaccumulation.			
N-NONANE UNLABELED (111-84-2)				
Log Pow	5.65			
Bioaccumulative potential	Indication of bioaccumulation.			
CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled))				
Bioconcentration factor (BCF REACH)	14400			
Log Pow	5.4			
Bioaccumulative potential	Bioaccumulative potential: Pimephales promelas (fathead minnow)- 32d.			
12.4. Mobility in soil				
No additional information available				
12.5. Results of PBT and vPvB assessment				
No additional information available				
12.6. Other adverse effects				
Other adverse effects :	Disposal must be done according to official regulations.			
SECTION 13: Disposal considerations				
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.			

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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.
Ecology - waste materials	: Dispose of as unused product.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / A	DN
14.1. UN number	
UN-No.(DOT)	: 1920
DOT NA no.	UN1920
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Nonanes
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid
Packing group (DOT)	: III - Minor Danger
DOT Special Provisions (49 CFR 172.102)	 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquid with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 5 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Tabl 2 for UN2672). T2 - 1.5 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
Marine pollutant	: No
14.3. Additional information	
Emergency Response Guide (ERG) Number	: 128
Other information	: No supplementary information available.
Overland transport	
Packing group (ADR)	: III
Class (ADR)	: 3 - Flammable liquid
Hazard identification number (Kemler No.)	: 30
Classification code (ADR)	: F1
Hazard labels (ADR)	: 3 - Flammable liquids

Orange plates

10/06/2020

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1920

1

: D/E

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: 3Y

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Excepted quantities (ADR)	: E1
Fransport by sea	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
MFAG-No	: 128
Air transport	
DOT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 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	x II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory information	
15.1. US Federal regulations	
CIS-HEPTACHLOR EPOXIDE (13C10, 99%) 1	00 UG/ML IN NONANE
Listed on the United States TSCA (Toxic Substa	
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.
N-NONANE UNLABELED (111-84-2)	
Listed on the United States TSCA (Toxic Substa	ances 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.
CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1	1024-57-3 (Unlabeled))
SARA Section 302 Threshold Planning	Not subject to reporting requirements of the United States SARA Section 302
Quantity (TPQ)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

15.2. International regulations

CANADA

CIS-HEPTACHLOR EPOXIDE (13C10, 99%) 100 UG/ML IN NONANE		
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

No additional information available

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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

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15.3. US State regulations	3					
CIS-HEPTACHLOR EPOX	IDE (13C10, 99%) 100 UG/N	٨L	IN NONANE()			
U.S California - Proposition 65 - Carcinogens List		Ν	No			
U.S California - Proposition 65 - Developmental Toxicity		N	0			
U.S California - Propositio Toxicity - Female	on 65 - Reproductive	N	No			
U.S California - Propositio Toxicity - Male	on 65 - Reproductive	N	0			
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				
N-NONANE UNLABELED	(111-84-2)	•				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity		U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	
No	No		No	No		
CIS-HEPTACHLOR EPOX	IDE (13C10, 99%) (1024-57-3	3 (I	Unlabeled))	•	•	
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	No		No	No		
N-NONANE UNLABELED	(111-84-2)					
State or local regulations	(
U.S New Jersey - Right to U.S Massachusetts - Righ U.S Pennsylvania - RTK (genic Toxic Air Pollutants - Ac b Know Hazardous Substance nt To Know List (Right to Know) List g of Releases Part 597 - List o	e L	ist	ns		
CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled))						
State or local regulations						
U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance 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:

Acute Tox. 2 (Oral)	Acute toxicity (oral) Category 2	
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) 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	
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	
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	
H226	Flammable liquid and vapor	
H300	Fatal if swallowed	
H304	May be fatal if swallowed and enters airways	
H315	Causes skin irritation	

CLM-4734-S

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H319	Causes serious eye irritation		
H332	Harmful if inhaled		
H336	May cause drowsiness or dizziness		
H351	Suspected of causing cancer		
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		
R10	Flammable		
R20	Harmful by inhalation		
R28	Very toxic if swallowed		
R36/38	Irritating to eyes and skin		
R40	Limited evidence of a carcinogenic effect		
R48	Danger of serious damage to health by prolonged exposure		
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment		
R65	Harmful: may cause lung damage if swallowed		
R67	Vapors may cause drowsiness and dizziness		
N	Dangerous for the environment		
T+	Very toxic		
Xi	Irritant		
Xn	Harmful		

: 2 - Materials that, under emergency conditions, can cause

: 3 - Liquids and solids (including finely divided suspended

: 0 - Material that in themselves are normally stable, even

solids) that can be ignited under almost all ambient

temporary incapacitation or residual injury.

NFPA fire hazard

NFPA reactivity

Hazard Rating

: 2 Moderate Hazard - Temporary or minor injury may occur
: 3 Serious Hazard
: 0 Minimal Hazard

temperature conditions.

under fire conditions.

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

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