

## 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: 27/12/2017 Revision date: 22/05/2018 Supersedes: 27/12/2017 Version: 1.1 CLM-6026-S

<b>SECTION 1: Identification of the</b>	e substance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Mixtures	
Product name	: ENDOSULFAN II(CHEMICAL PURITY >95%)(13C9, 99%) 100 UG/ML IN NONANE	
Product code	: CLM-6026-S	
1.2. Relevant identified uses of the	e substance 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 s	afety data sheet	
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA		
USA: 1-800-322-1174 Int: 1-978-749-80 cilsales@isotope.com www.isotope.con		
Emergency telephone number	r	
Emergency numbers:		
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)		
<b>SECTION 2: Hazards identificat</b>	ion	
2.1. Classification of the substanc	e or mixture	
Classification according to Regulation	(EC) No. 1272/2008 [CLP]	
Flam. Liq. 3 H226		
Acute Tox. 4 (Inhalation:dust,mist) H332		
Skin Irrit. 2 H315		
Eye Irrit. 2 H319		
STOT SE 3 H336		
Asp. Tox. 1 H304		
Full text of hazard classes and H-statements : see section 16		
Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] 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:dust,mist)	H332
Skin Irrit. 2	H315
Eye Irrit. 2A	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.



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P337+P313 - If eye irritation persists: Get medical advice/attention
P362 - Take off contaminated clothing and wash it before reuse
P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry extinguishing powder to extinguish
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

## 2.3. Other hazards

No additional information available

## **SECTION 3: Composition/Information on ingredients**

# 3.1. Substances

Not applicable

3.2. Mixtures			
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
ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%)	(CAS No) 33213-65-9 (Unlabeled) (EC No) (EC Index No)	0.014	T; R25 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	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
ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%)	(CAS No) 33213-65-9 (Unlabeled) (EC No) (EC Index No)	0.014	Acute Tox. 3 (Oral), H301 Aquatic Acute 1, H400 (M=1000) 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
ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%)	(CAS No) 33213-65-9 (Unlabeled)	0.014	Acute Tox. 3 (Oral), H301 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	: Call a physician immediately.
First-aid measures after inhalation	<ul> <li>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.</li> </ul>
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Wash with plenty of soap and water. Get medical advice/attention. Specific treatment (see Hazard pictograms (CLP) on this label).
First-aid measures after eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
First-aid measures after ingestion	: Immediately call a poison center or doctor/physician.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/injuries	: May cause drowsiness or dizziness.

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Symptoms/injuries after inhalation	: Harmful if inhaled. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. May be harmful in contact with skin.
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 medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide. Alcohol resistant foam.
5.2. Special hazards arising from the su	ubstance or mixture
Fire hazard	: Flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
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.

SECT	SECTION 6: Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures		
Genera	measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.	
6.1.1.	For non-emergency personnel		
Emerge	ncy 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		
Protecti	ve 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 release to the environment.			
6.3.	Methods and material for containm	ent and cleaning up	
For con	tainment	: Dike and contain spill. Dispose as hazardous waste. Comply with local regulations for disposal	
Method	s for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.	
Other in	formation	: Dispose of materials or solid residues at an authorized site.	
6.4.	Reference to other sections		
For further information refer to section 13.			
SECT	ION 7: Handling and storage		

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, includ	ing any incompatibilities
Technical measures	: Store in a well-ventilated place. Keep container tightly closed. Keep dry. Ground/bond container and receiving equipment.
Storage conditions	: Store at room temperature away from light and moisture.
Incompatible materials	: Heat sources.

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#### 7.3. Specific end use(s)

### No additional information available

.1. Control parameters		
ENDOSULFAN II (CHEMICAI	_ PURITY >95%) (13C9, 99%) 100 UG/ML IN NON	ANE
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/m³)	1050 mg/m <sup>3</sup> 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 <sup>3</sup> 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 <sup>3</sup> )	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)	1
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/m³)	1050 mg/m <sup>3</sup> 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 <sup>3</sup> 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 <sup>3</sup> )	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**

: Ensure good ventilation of the work station.

Appropriate engineering controls Personal protective equipment

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



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

- : Wear suitable protective clothing and gloves.
- 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.

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Physical state	: Liquid
Appearance	: Liquid
Molecular mass	: 128.3 g/mol
Color	: Colorless
Odor	: No data available
Odor threshold	: No data available
pH	: 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)	: Flammable liquid and vapor
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 mm <sup>2</sup> /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 flam	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 cond	itions of use.		
10.4. Conditions to avoid			
Avoid contact with hot surfaces. Heat. No flames, r	no sparks. Eliminate all sources of ignition.		
10.5. Incompatible materials			
No additional information available			
10.6. Hazardous decomposition products			
Carbon oxides (CO, CO2).			
<b>SECTION 11: Toxicological informatio</b>	n		
11.1. Information on toxicological effects	11.1. Information on toxicological effects		
Acute toxicity :	Inhalation:dust,mist: Harmful if inhaled.		
ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%) 100 UG/ML IN NONANE			
LC50 inhalation rat (mg/l)	23760 mg/m <sup>3</sup> 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

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-		
N-NONANE UNLABELED (111-84-2)		
LC50 inhalation rat (mg/l)	23760 mg/m <sup>3</sup> male - 4h	
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)	
Additional information	: S. Typhimurium Result: negative	
ENDOSULFAN II (CHEMICAL PURITY >95%)	(13C9, 99%) (33213-65-9 (Unlabeled))	
LD50 oral rat	240 mg/kg	
ATE CLP (oral)	100.000 mg/kg body weight	
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.	
N-NONANE UNLABELED (111-84-2)		
NOAEL (oral,rat)	100 mg/kg body weight female (OECD Test Guildeline 408)	
Specific target organ toxicity - repeated	: Not classified	
exposure		
ENDOSULFAN II (CHEMICAL PURITY >95%)	(13C9, 99%) 100 UG/ML IN NONANE	
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	: 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/injuries after inhalation	: Harmful if inhaled. May cause respiratory irritation.	
Symptoms/injuries after skin contact	: Causes skin irritation. May be harmful in contact with skin.	
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 : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.		
ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%) 100 UG/ML IN NONANE		
EC50 Daphnia 1	0.2 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h	
N-NONANE UNLABELED (111-84-2)		
LC50 fish 1	0.2 mg/l Daphnia magna (Water flea) - 48 h	
ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%) (33213-65-9 (Unlabeled))		
LC50 fish 1	0.0066 mg/l Other fish - 96 h	

0.1 - 1 mg/l Daphnia magna (Water flea) - 48 h

# 12.2. Persistence and degradability

No additional information available

EC50 Daphnia 1

2.3. Bioaccumulative potential		
ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 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.	

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ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%) (33213-65-9 (Unlabeled))			
BCF fish 1	0.0001 mg/l Other fish - 21 d		
Bioconcentration factor (BCF REACH)	9908		
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessmer	nt		
No additional information available			
12.6. Other adverse effects			
Other adverse effects	: Disposal must be done according to official regulations. Very toxic to aquatic life with long lasting effects.		
<b>SECTION 13: Disposal consideration</b>	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			
14.1. UN number	//N		
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		
	FLAMABLE LIQUD		
Packing group (DOT)	: III - Minor Danger		
DOT Special Provisions (49 CFR 172.102)	<ul> <li>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.</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T2 - 1.5 178.274(d)(2) Normal</li></ul>		
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		
14.3. Additional information	· Ma sumplementary information or state		
Other information	: No supplementary information available.		
Overlag disease i			
Overland transport			
Packing group (ADR)	: III		
Class (ADR)	: 3 - Flammable liquid		

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Hazard identification number (Kemler No.)	: 30
Classification code (ADR)	: F1
Hazard labels (ADR)	: 3 - Flammable liquids
Orange plates	30 1920
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	51
EAC	: 3Y
Excepted quantities (ADR)	: E1
Transport 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/ra (49 CFR 173.27)	il : 60 L
DOT Quantity Limitations Cargo aircraft only (4 CFR 175.75)	9 : 220 L
Civil Aeronautics Law	: Flammable liquids
14.4. Environmental hazards	
Other information	: No supplementary information available.
14.5. Special precautions for user	
44.C Transport in bully apparding to Any	any IL of MADDOL 72/79 and the IDC Code

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

# Not applicable

## SECTION 15: Regulatory information

## 15.1. US Federal regulations

ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%) 100 UG/ML IN NONANE		
Listed on the United States TSCA (Toxic Substances 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.	
N-NONANE UNLABELED (111-84-2)		
Listed on the United States TSCA (Toxic Substar	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.	
ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%) (33213-65-9 (Unlabeled))		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing 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 reporing requirements of the United States SARA Section 313.	

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15.2.	Internationa	I reaul	ations

### CANADA

### ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 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

### 15.3. US State regulations

ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9,	99%) 100 UG/ML IN NONANE
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
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)

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U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	

ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%) (33213-65-9 (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)
No	No	No	No	
N-NONANE UNLABELED (1	11-84-2)			
State or local regulations	State or local regulations			
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S Massachusetts - Right To Know List 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				
ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%) (33213-65-9 (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**

IN NONANE CLM-6026-S

### 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

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 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) 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
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 SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H301	Toxic if swallowed
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
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R10	Flammable
R20	Harmful by inhalation
R25	Toxic if swallowed
R36/38	Irritating to eyes and skin
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
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
Physical	: 0 Minimal Hazard

### CIL Mixture SDS

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