

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: 15/08/2014 Revision date: 24/09/2019 Supersedes: 15/08/2014 Version: 2.0 EC-5370

SECTION 1: Identification of t	he substance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form Product name Product code	: Mixtures : EN-1948-4 PCB SAMPLING STANDARD (13C12, 99%) 100 NG/ML IN NONANE : EC-5370		
1.2. Relevant identified uses of t	he substance or mixture and uses advised against		
1.2.1.Relevant identified usesIndustrial/Professional use spec	: For professional use only		
1.2.2.Uses advised againstNo additional information available			
1.3. Details of the supplier of the	e safety data sheet		
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA USA: 1-800-322-1174 Int: 1-978-749- cilsales@isotope.com www.isotope.c			
Emergency telephone numb	ber		
Emergency numbers:			
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hour	Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)		
SECTION 2: Hazards identifica	ation		
2.1. Classification of the substa	nce or mixture		
Classification according to Regulatio	n (EC) No. 1272/2008 [CLP]		
Flam. Liq. 3 H22			
Acute Tox. 4 (Inhalation:dust,mist) H33	2		
Skin Irrit. 2 H31	5		
Eye Irrit. 2 H31	9		
STOT SE 3 H33	6		
Asp. Tox. 1 H30	4		
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

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.

NONANE EC-5370

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

2.2. Label elements

2.2.	Label elements	
Labeli	ng according to Regulation (EC) No.	1272/2008 [CLP]
Hazaro	d pictograms (CLP)	
		GHS02 GHS08 GHS07
Signal	word (CLP)	: Danger
Hazaro	dous ingredients	: N-NONANE UNLABELED
Hazaro	d 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
Proco	itionary statements (CLP)	H336 - May cause drowsiness or dizziness
Flecal	utionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P233 - Keep container tightly closed.
		P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical, lighting, ventilating equipment
		P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.
		P264 - Wash Both hands thoroughly after handling.
		P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective clothing, protective gloves.
CHS-I	JS labeling	
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Hazaro	d pictograms (GHS-US)	
	- Freedomine (
		GHS02 GHS08 GHS07
Signal	word (GHS-US)	: Danger
Hazaro	d 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
Precau	utionary statements (GHS-US)	 P210 - Keep away from heat, hot surfaces, open flames, sparks No smoking. P233 - Keep container tightly closed.
		P240 - Ground/Bond container and receiving equipment
		P241 - Use explosion-proof electrical, lighting, ventilating equipment
		P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge.
		P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.
		P264 - Wash Both hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area.
		P280 - Wear protective clothing, protective gloves.
		P301+P310 - If swallowed: Immediately call a poison center or doctor
		P302+P352 - If on skin: Wash with plenty of water P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse
		skin with water/shower
		P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact
		lenses, if present and easy to do. Continue rinsing
		P312 - Call a poison center or doctor if you feel unwell
		P321 - Specific treatment (see Hazard pictograms (CLP) on this label) P331 - Do NOT induce vomiting.
		P332+P313 - If skin irritation occurs: Get medical advice/attention.
		P337+P313 - If eye irritation persists: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse.
		P370+P378 - In case of fire: Use Alcohol resistant foam, Carbon dioxide, Dry chemical, Water
		spray to extinguish.

NONANE EC-5370

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

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 Comply with applicable regulations

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	99.99996	R10 Xn; R20 Xn; R65 Xi; R36/38 R67
3,3',4,5,5'-PENTACB (PCB-127) (13C12, 99%)	(CAS-No.) 39635-33-1 (Unlabeled) (EC Index-No.) 602-039-00-4	0.000014	N; R50/53 R33 R48
2,3,4,4'-TETRACB (PCB-60) (13C12, 99%)	(CAS-No.) 33025-41-1 (Unlabeled) (EC Index-No.) 602-039-00-4	0.000013	N; R50/53 R33 R48
2,3,3',4,5,5'-HEXACB (PCB-159) (13C12, 99%)	(CAS-No.) 39635-35-3 (Unlabeled) (EC Index-No.) 602-039-00-4	0.000013	N; R50/53 R33 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	99.99996	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
3,3',4,5,5'-PENTACB (PCB-127) (13C12, 99%)	(CAS-No.) 39635-33-1 (Unlabeled) (EC Index-No.) 602-039-00-4	0.000014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3,4,4'-TETRACB (PCB-60) (13C12, 99%)	(CAS-No.) 33025-41-1 (Unlabeled) (EC Index-No.) 602-039-00-4	0.000013	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3,3',4,5,5'-HEXACB (PCB-159) (13C12, 99%)	(CAS-No.) 39635-35-3 (Unlabeled) (EC Index-No.) 602-039-00-4	0.000013	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Name	Product identifier	%	GHS-US classification
N-NONANE UNLABELED	(CAS-No.) 111-84-2	99.99996	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
3,3',4,5,5'-PENTACB (PCB-127) (13C12, 99%)	(CAS-No.) 39635-33-1 (Unlabeled)	0.000014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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Full text of R- and H- phrases: see section 16

NONANE EC-5370

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

26, 2012 / Rules and Regulations	
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.
4.2. Most important symptoms and ef	
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	ical attention and special treatment needed
Treat symptomatically.	
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	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 me	easures
6.1. Personal precautions, protective	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. Av	roid release to the environment.
6.3. Methods and material for contain	ment and cleaning up
For containment	: Dike and contain spill. Dispose as hazardous waste. Comply with local regulations for disposal.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Avoid all contact with skin, eyes, or clothing. Keep away from sources of ignition - No smoking. Do not breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer). Take precautionary measures against static discharges.

NONANE EC-5370

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

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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.	
Hygie	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, includir	ng	any incompatibilities	
Techr	nical measures	:	Store in a well-ventilated place. Keep container tightly closed. Keep dry. Ground/bond container and receiving equipment.	
Stora	ge conditions	:	Store at room temperature away from light and moisture.	

7.3. Specific end use(s)

No additional information available

1. Control parameters		
EN-1948-4 PCB SAMPLING S	STANDARD (13C12, 99%) 100 NG/ML IN N	ONANE
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)	
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

: Ensure good ventilation of the work station.

NONANE EC-5370

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

Personal protective equipment	: Protective clothing. Protective goggles. Gloves. Self-contained breathing apparatus.
Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: protective gloves.
Eye protection	: Chemical goggles or face shield. Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing, gloves and eye/face protection.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Approved respirator.

: Avoid release to the environment.

Environmental exposure controls

SECTION 9: Physical and chemical properties Information on basic physical and chemical properties 9.1.

9.1. Information on pasic 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	
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		

9.2. No additional information available

SECT	SECTION 10: Stability and reactivity				
10.1.	Reactivity				
Flamma	able liquid and vapor. Vapors may form flammable mixture with air.				
10.2.	Chemical stability				
See sto	rage and expiration date on CoA.				
10.3.	Possibility of hazardous reactions				
No dang	gerous reactions known under normal conditions of use.				
10.4.	Conditions to avoid				
Avoid c	ontact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.				
24/09/20	19 EN (English US)	6/12			

NONANE EC-5370

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

10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition products		
Carbon oxides (CO, CO2).		
,		
SECTION 11: Toxicological information		
11.1. Information on toxicological effects	. Tak alatian duat minte Hamaful Minkala d	
Acute toxicity	: Inhalation:dust,mist: Harmful if inhaled.	
EN-1948-4 PCB SAMPLING STANDARD (13C		
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)	
Additional information	: S. Typhimurium Result: negative	
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.	
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SECTI	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.		
12.2.	Persistence and degradability			
No addit	ional information available			
12.3.	Bioaccumulative potential			
EN-194	48-4 PCB SAMPLING STANDARD (13C1	2, 99%) 100 NG/ML IN NONANE		
Log Po	W	5.65		
Bioaccumulative potential		Indication of bioaccumulation.		
N-NON	IANE UNLABELED (111-84-2)			
Log Po	W	5.65		
Bioaccumulative potential		Indication of bioaccumulation.		

Mobility in soil No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.4.

NONANE EC-5370

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

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.
SECTION 13: Disposal consideration	IS
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.
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
	PLAMMABLE 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 50 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 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
14.3. Additional information	
Emergency Response Guide (ERG) Number	: 128
Other information	: No supplementary information available.
	. No supplementary information available.
Overland transport	
Packing group (ADR)	: 111
Class (ADR)	: 3 - Flammable liquid
Hazard identification number (Kemler No.)	: 30
Classification code (ADR)	: F1
Hazard labels (ADR)	: 3 - Flammable liquids

NONANE EC-5370

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

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/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 Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations			
EN-1948-4 PCB SAMPLING STANDARD (13C12, 99%) 100 NG/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.		
2,3,4,4'-TETRACB (PCB-60) (13C12, 99%) (33025-41-1 (Unlabeled))			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313		
3,3',4,5,5'-PENTACB (PCB-127) (13C12, 99%) (39635-33-1 (Unlabeled))			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313		
2,3,3',4,5,5'-HEXACB (PCB-159) (13C12, 99%) (39635-35-3 (Unlabeled))			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313		
N-NONANE UNLABELED (111-84-2)			
Listed on the United States TSCA (Toxic Substan	nces 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.		

NONANE EC-5370

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

EN-1948-4 F	B SAMPLING STANDARD (13C12, 99%) 100 NG/ML IN NONANE
Listed on the	Canadian DSL (Domestic Substances List)
N-NONANE	NLABELED (111-84-2)
Listed on the	Canadian DSL (Domestic Substances List)

No additional information available

15.3. US State regulations					
EN-1948-4 PCB SAMPLING) 100 NG/ML IN NONANE			
U.S California - Proposition	n 65 - Carcinogens List	No			
U.S California - Proposition 65 - Developmental Toxicity		No	No		
U.S California - Proposition Toxicity - Female	n 65 - Reproductive	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			
2,3,4,4'-TETRACB (PCB-60)) (13C12, 99%) (33025-41-	-1 (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	Yes	No	Yes		
3,3',4,5,5'-PENTACB (PCB	-127) (13C12, 99%) (39635	-33-1 (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	Yes	Yes	Yes		
2,3,3',4,5,5'-HEXACB (PCB	-159) (13C12, 99%) (3963	5-35-3 (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	Yes	Yes	Yes		
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		
2,3,4,4'-TETRACB (PCB-60)) (13C12, 99%) (33025-41-	1 (Unlabeled))			
State or local regulations	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
U.S Pennsylvania - RTK (F U.S New Jersey - Right to		e List			
3,3',4,5,5'-PENTACB (PCB	-127) (13C12, 99%) (39635	-33-1 (Unlabeled))			
State or local regulations	, (,, (, (), (), (, (), (, (), (, ((
U.S Pennsylvania - RTK (F	Right to Know) List				

NONANE EC-5370

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

3,3',4,5,5'-PENTACB (PCB-127) (13C12, 99%) (39635-33-1 (Unlabeled))
U.S New Jersey - Right to Know Hazardous Substance List
2,3,3',4,5,5'-HEXACB (PCB-159) (13C12, 99%) (39635-35-3 (Unlabeled))
State or local regulations
U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List
N-NONANE UNLABELED (111-84-2)
State or local regulations
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S New Jersey - Right to Know Hazardous Substance List U.S Massachusetts - Right To Know List

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. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
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
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
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
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
R33	Danger of cumulative effects
R36/38	Irritating to eyes and skin
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
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.	2 0
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.	

NONANE EC-5370

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

Hazard Rating

Flammability

Health

Physical

: 2 Moderate Hazard - Temporary or minor injury may occur

- : 3 Serious Hazard
 - : 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