

## 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: 10/12/2015 Revision date: 22/04/2022 Supersedes: 10/12/2015 Version: 2.0

EC-5411

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixtures

Product name : PREDOMINANT MONO-DECA PCBS 2000 NG/ML IN NONANE

Product code : EC-5411

### 1.2. Relevant identified uses of the 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 safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> www.isotope.com

### **Emergency telephone number**

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)

### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or 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) 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.

### **Label elements**

### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

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.

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.

### **GHS-US** labeling

Hazard pictograms (GHS-US)







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

P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking. Precautionary statements (GHS-US)

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.

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P370+P378 - In case of fire: Use Alcohol resistant foam, Carbon dioxide, Dry chemical, Water spray 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 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	99.99638	R10 Xn; R20 Xn; R65 Xi; R36/38 R67
DECACB (PCB-209) (13C12, 99%)	(CAS-No.) 105600-27-9 (EC-No.) 218-115-1 (Unlabeled) (EC Index-No.) 602-039-00-4 (Unlabeled)	0.00028	Carc.Cat.1; R45 Carc.Cat.1; R49 Repr.Cat.1; R60 Repr.Cat.1; R61 Xn; R20/21/22 Xi; R38 N; R50/53
2,2',4,5,5'-PENTACB (PCB-101) (13C12, 99%)	(CAS-No.) 104130-39-4 (EC Index-No.) 602-039-00-4 (Unlabeled)	0.00028	Xn; R48/20 N; R50/53
2,2',5,5'-TETRACB (PCB-52) (13C12, 99%)	(CAS-No.) 208263-80-3 (EC Index-No.) 602-039-00-4	0.00028	Carc.Cat.1; R45 N; R51/53 Xn; R48/20/21/22
2,4,4'-TRICB (PCB-28) (13C12, 99%)	(CAS-No.) 208263-76-7 (EC-No.) 230-293-2 (Unlabeled) (EC Index-No.) 602-039-00-4 (Unlabeled)	0.00028	Xn; R20/21/22 N; R50/53 R48
2,2',3,4,4',5,5'-HEPTACB (PCB-180) (13C12, 99%)	(CAS-No.) 35065-29-3 (Unlabeled)	0.00028	N; R50/53
2,2',3,4,4',5'-HEXACB (PCB-138) (13C12, 99%)	(CAS-No.) 208263-66-5 (EC Index-No.) 602-039-00-4	0.00028	Xn; R48/20/21/22 N; R50/53 R33
2,2',4,4',5,5'-HEXACB (PCB-153) (13C12, 99%)	(CAS-No.) 185376-58-3 (EC Index-No.) 602-039-00-4	0.00028	N; R50/53 R33 R48
2,3,4,4',5-PENTACB (PCB-114) (13C12, 99%)	(CAS-No.) 208263-63-2 (EC Index-No.) 602-039-00-4	0.00028	Xn; R48/20/21/22 N; R50/53 R33
2,2',3,3',4,4',5,5'-OCTACB (PCB-194) (13C12, 98%)	(CAS-No.) 208263-74-5 (EC Index-No.) 602-039-00-4	0.00028	Xn; R48/20/21/22 N; R50/53 R33
2,2',3,3',4,4',5,5',6-NONACB (PCB-206) (13C12, 99%)	(CAS-No.) 208263-75-6 (EC Index-No.) 602-039-00-4 (Unlabeled)	0.00028	N; R50/53 R48
2,4'-DICB (PCB-8) (13C12, 98%)	(CAS-No.) 34883-43-7 (Unlabeled) (EC Index-No.) 602-039-00-4 (Unlabeled)	0.00028	N; R50/53 R48
4-MONOCB (PCB-3) (13C12, 99%)	(CAS-No.) 208263-77-8 (EC-No.) 218-127-7 (Unlabeled)	0.00028	N; R50/53 R48
2,3',4,4',5-PENTACB (PCB-118) (13C12, 98%)	(CAS-No.) 104130-40-7 (EC-No.) 215-648-1 (EC Index-No.) 602-039-00-4	0.00028	Xn; R48/20/21/22 N; R50/53 R33

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		r	l l
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	99.99638	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
DECACB (PCB-209) (13C12, 99%)	(CAS-No.) 105600-27-9 (EC-No.) 218-115-1 (Unlabeled) (EC Index-No.) 602-039-00-4 (Unlabeled)	0.00028	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Carc. 1A, H350 Repr. 1A, H360 STOT SE 2, H371 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',4,5,5'-PENTACB (PCB-101) (13C12, 99%)	(CAS-No.) 104130-39-4 (EC Index-No.) 602-039-00-4 (Unlabeled)	0.00028	STOT RE 2, H373 Aquatic Chronic 1, H410
2,2',5,5'-TETRACB (PCB-52) (13C12, 99%)	(CAS-No.) 208263-80-3 (EC Index-No.) 602-039-00-4	0.00028	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4,4'-TRICB (PCB-28) (13C12, 99%)	(CAS-No.) 208263-76-7 (EC-No.) 230-293-2 (Unlabeled) (EC Index-No.) 602-039-00-4 (Unlabeled)	0.00028	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,4,4',5,5'-HEPTACB (PCB-180) (13C12, 99%)	(CAS-No.) 35065-29-3 (Unlabeled)	0.00028	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,4,4',5'-HEXACB (PCB-138) (13C12, 99%)	(CAS-No.) 208263-66-5 (EC Index-No.) 602-039-00-4	0.00028	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',4,4',5,5'-HEXACB (PCB-153) (13C12, 99%)	(CAS-No.) 185376-58-3 (EC Index-No.) 602-039-00-4	0.00028	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3,4,4',5-PENTACB (PCB-114) (13C12, 99%)	(CAS-No.) 208263-63-2 (EC Index-No.) 602-039-00-4	0.00028	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,3',4,4',5,5'-OCTACB (PCB-194) (13C12, 98%)	(CAS-No.) 208263-74-5 (EC Index-No.) 602-039-00-4	0.00028	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,3',4,4',5,5',6-NONACB (PCB-206) (13C12, 99%)	(CAS-No.) 208263-75-6 (EC Index-No.) 602-039-00-4 (Unlabeled)	0.00028	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4'-DICB (PCB-8) (13C12, 98%)	(CAS-No.) 34883-43-7 (Unlabeled) (EC Index-No.) 602-039-00-4 (Unlabeled)	0.00028	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-MONOCB (PCB-3) (13C12, 99%)	(CAS-No.) 208263-77-8 (EC-No.) 218-127-7 (Unlabeled)	0.00028	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3',4,4',5-PENTACB (PCB-118) (13C12, 98%)	(CAS-No.) 104130-40-7 (EC-No.) 215-648-1 (EC Index-No.) 602-039-00-4	0.00028	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Name	Product identifier	%	GHS-US classification
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DECACB (PCB-209) (13C12, 99%)	(CAS-No.) 105600-27-9	0.00028	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Carc. 1A, H350 Repr. 1A, H360 STOT SE 2, H371 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',4,5,5'-PENTACB (PCB-101) (13C12, 99%)	(CAS-No.) 104130-39-4	0.00028	STOT RE 2, H373 Aquatic Chronic 1, H410
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2,4,4'-TRICB (PCB-28) (13C12, 99%)	(CAS-No.) 208263-76-7	0.00028	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	GHS-US classification
2,2',3,4,4',5,5'-HEPTACB (PCB-180) (13C12, 99%)	(CAS-No.) 35065-29-3 (Unlabeled)	0.00028	STOT SE 2, H371 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,4,4',5'-HEXACB (PCB-138) (13C12, 99%)	(CAS-No.) 208263-66-5	0.00028	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',4,4',5,5'-HEXACB (PCB-153) (13C12, 99%)	(CAS-No.) 185376-58-3	0.00028	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3,4,4',5-PENTACB (PCB-114) (13C12, 99%)	(CAS-No.) 208263-63-2	0.00028	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,3',4,4',5,5'-OCTACB (PCB-194) (13C12, 98%)	(CAS-No.) 208263-74-5	0.00028	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,3',4,4',5,5',6-NONACB (PCB-206) (13C12, 99%)	(CAS-No.) 208263-75-6	0.00028	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4'-DICB (PCB-8) (13C12, 98%)	(CAS-No.) 34883-43-7 (Unlabeled)	0.00028	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-MONOCB (PCB-3) (13C12, 99%)	(CAS-No.) 208263-77-8	0.00028	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3',4,4',5-PENTACB (PCB-118) (13C12, 98%)	(CAS-No.) 104130-40-7	0.00028	STOT RE 2, H373 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 : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a

POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical

with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice/attention.

advice/allention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : Harmful if inhaled. Danger of serious damage to health by prolonged exposure through

inhalation. May cause drowsiness or dizziness.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : May be fatal if swallowed and enters airways.

### 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 : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapor.

Explosion hazard : May form flammable/explosive vapor-air mixture.

Reactivity : Vapor is explosive with air above.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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### **SECTION 6: Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No

smokina.

6.1.1. For non-emergency personnel

**Emergency procedures** : Evacuate unnecessary personnel.

For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust, mist or spray.

: Ventilate area. **Emergency procedures** 

### **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### Methods and material for containment and cleaning up

For containment : For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent

safe disposal. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Dike and contain spill. Dispose as hazardous waste. Comply

Methods for cleaning up Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

with local regulations for disposal.

### Reference to other sections

See Heading 8. Exposure controls and personal protection.

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Take precautionary measures against static discharge.

Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing dust, mist or spray.

Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Hygiene measures Always wash hands after handling the product.

## Conditions for safe storage, including any incompatibilities

Proper grounding procedures to avoid static electricity should be followed. Ground/bond Technical measures

container and receiving equipment. Use explosion-proof electrical equipment.

Storage conditions Store at room temperature away from light and moisture.

Incompatible products Strong bases. Strong acids.

: Sources of ignition. Direct sunlight. Heat sources. Incompatible materials

### Specific end use(s)

No additional information available

### **SECTION 8: Exposure controls/personal protection**

### **Control parameters**

DECACB (PCB-209) (13C12, 99%) (105600-27-9)		
USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.001 mg/m³ USA. NIOSH Recommended Exposure Limits. Remarks : Potential Occupational Carcinogen.
2,2',5,5'-TETRACB (PCB-52)	(13C12, 99%) (208263-80-3)	
USA OSHA	OSHA PEL (TWA) (mg/m³)	0.5 mg/m <sup>3</sup>
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/m³)	1050 mg/m³ 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/m³ USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000

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N-NONANE UNLABELED (111-84-2)		
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/m³)	1050 California permissible exposure limits for chemical contaminants.
USA OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm California permissible exposure limits for chemical contaminants.

### **Exposure controls**

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









Hand protection Wear protective gloves.

Eye protection Chemical goggles or safety glasses. Skin and body protection Wear suitable protective clothing.

Respiratory protection Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended. Wear respiratory protection.

Other information : Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

### 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 Color Colorless

Odor : Characteristic Odor threshold : No data available No data available pΗ Relative evaporation rate (butyl acetate=1) : No data available : Not applicable Melting point Freezing point : -53 °C (- 63 °F) - lit **Boiling** point : 151 °C (304 °F) - lit : 31 °C (87.8 °F) - closed cup Flash point

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

: 0.718 g/ml at 25 °C (77 °F) Specific gravity / density

: Water: 0.0002 % at 25 °C (77 °F) - slightly soluble Solubility

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)

Other information

Minimum ignition energy : >=

### **SECTION 10: Stability and reactivity**

### Reactivity

Vapor is explosive with air above.

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### 10.2. **Chemical stability**

Stable if stored under recommended conditions.

### Possibility of hazardous reactions

Not established.

### 10.4. **Conditions to avoid**

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

### **Incompatible materials** 10.5.

Symptoms/effects after ingestion

Strong acids. Strong bases.

### 10.6. **Hazardous decomposition products**

Carbon monoxide. Carbon dioxide. May release flammable gases.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity	: Inhalation:dust,mist: Harmful if inhaled.	
PREDOMINANT MONO-DECA PCBS 2000 NG/ML IN NONANE		
ATE CLP (dust, mist)	1.500 mg/l/4h	
DECACB (PCB-209) (13C12, 99%) (105600-27-9)		
ATE CLP (oral)	500.000 mg/kg body weight	
ATE CLP (dermal)	1100.000 mg/kg body weight	
ATE CLP (gases)	4500.000 ppmV/4h	
ATE CLP (vapors)	11.000 mg/l/4h	
ATE CLP (dust, mist)	1.500 mg/l/4h	
N-NONANE UNLABELED (111-84-2)		
LC50 inhalation rat (mg/l)	23760 mg/m³ 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	
2,4'-DICB (PCB-8) (13C12, 98%) (34883-43-7	(Unlabeled))	
LD50 oral	7860 mg/kg - Mouse	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: Not classified	
	Based on available data, the classification criteria are not met	
Germ cell mutagenicity	: Not classified	
	Based on available data, the classification criteria are not met	
Carcinogenicity	: Not classified	
	Based on available data, the classification criteria are not met	
Reproductive toxicity	: Not classified	
	Based on available data, the classification criteria are not met	
Specific target organ toxicity – single exposure	: May cause drowsiness or dizziness.	
Specific target organ toxicity – repeated	: Not classified	
exposure	Based on available data, the classification criteria are not met	
Aspiration hazard	: May be fatal if swallowed and enters airways.	
Potential Adverse human health effects and symptoms	: Harmful if inhaled. 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. Danger of serious damage to health by prolonged exposure through inhalation. May cause drowsiness or dizziness.	
Symptoms/effects after skin contact	: Causes skin irritation.	
Symptoms/effects after eye contact	: Causes serious eye irritation.	

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: May be fatal if swallowed and enters airways.

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## **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

2,2',5,5'-TETRACB (PCB-52) (13C12, 99%) (208263-80-3)	
LC50 fish 1	>= 0.002 mg/l Pimephales promelas (fathead minnow) - 96 h
EC50 Daphnia 1	>= 0.002 mg/l Daphnia magna (Water flea) - 48 h
NOEC (chronic)	0.1 mg/l Oncorhynchus mykiss (rainbow trout) - 7 d
2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-76-7)	
LC50 fish 1	> 0.16 mg/l Pimpephale promelas (fathead minnow) -96h
EC50 Daphnia 1	> 0.16 mg/l Daphnia magna (Water flea) -48h
4-MONOCB (PCB-3) (13C12, 99%) (208263-77-8)	
LC50 fish 1	0.72 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 Daphnia 1	0.42 mg/l Daphnia magna (Water flea) - 48 h

### 12.2. Persistence and degradability

PREDOMINANT MONO-DECA PCBS 2000 NG/ML IN NONANE	
Persistence and degradability	Not established.
DECACB (PCB-209) (13C12, 99%) (105600-27-9)	
Persistence and degradability May cause long-term adverse effects in the environment.	

### 12.3. Bioaccumulative potential

PREDOMINANT MONO-DECA PCBS 2000 NG/ML IN NONANE	
Log Pow	5.65
Bioaccumulative potential	Not established.

# 2,2',4,4',5,5'-HEXACB (PCB-153) (13C12, 99%) (185376-58-3)

Log Pow 7.75

N-NONANE UNLABELED (111-84-2)	
Loa Pow	5.65

Bioaccumulative potential Indication of bioaccumulation.

# 2,2',3,4,4',5,5'-HEPTACB (PCB-180) (13C12, 99%) (35065-29-3 (Unlabeled))

Log Pow 8.27

# **2,4'-DICB (PCB-8) (13C12, 98%) (34883-43-7 (Unlabeled))**Log Pow 5.242

## 4-MONOCB (PCB-3) (13C12, 99%) (208263-77-8)

Bioconcentration factor (BCF REACH) 54 Oryzias latipes - 500 ug/l - 20 d

### 2,3',4,4',5-PENTACB (PCB-118) (13C12, 98%) (104130-40-7)

Log Pow 7.12

### 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 information : Avoid release to the environment.

### **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.

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 in a safe manner in accordance with local/national regulations. Dispose of contents/container to Comply with

applicable regulations.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Dispose of as unused product. Avoid release to the environment. Hazardous waste due to toxicity.

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### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

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

B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the DOT Special Provisions (49 CFR 172.102) 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 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).

T2 - 1.5 178.274(d)(2) Normal...... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150 : 203 DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) : 242 Marine pollutant : No

### **Additional information**

Emergency Response Guide (ERG) Number : 128

Other information : No supplementary information available.

### **Overland transport**

: 111 Packing group (ADR)

Class (ADR) : 3 - Flammable liquid

Hazard identification number (Kemler No.) : 30 Classification code (ADR) : F1

: 3 - Flammable liquids Hazard labels (ADR)



Orange plates

Tunnel restriction code (ADR) : D/F Limited quantities (ADR) 51 : 3Y Excepted quantities (ADR) : E1

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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 : 60 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

Civil Aeronautics Law : Flammable liquids

14.4. **Environmental hazards** 

Other information : No supplementary information available.

Special precautions for user 14.5.

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

5.1. US regeral regulations		
PREDOMINANT MONO-DECA PCBS 2000 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.	
DECACB (PCB-209) (13C12, 99%) (105600-27-	-9)	
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.	
2,2',4,5,5'-PENTACB (PCB-101) (13C12, 99%)	(104130-39-4)	
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.	
2,2',5,5'-TETRACB (PCB-52) (13C12, 99%) (20	8263-80-3)	
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.	
2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-	76-7)	
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	Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.	
2,2',3,4,4',5'-HEXACB (PCB-138) (13C12, 99%	(208263-66-5)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.	
2,2',4,4',5,5'-HEXACB (PCB-153) (13C12, 99%) (185376-58-3)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.	
N-NONANE UNLABELED (111-84-2)		
Listed on the United States TSCA (Toxic Substantial		
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.	

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N NONANE UNI ADEL ED (444 04 0)		
N-NONANE UNLABELED (111-84-2)		
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.	
2,2',3,4,4',5,5'-HEPTACB (PCB-180) (13C12, 9	9%) (35065-29-3 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.	
2,3,4,4',5-PENTACB (PCB-114) (13C12, 99%)	208263-63-2)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.	
2,2',3,3',4,4',5,5'-OCTACB (PCB-194) (13C12,	98%) (208263-74-5)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.	
2,2',3,3',4,4',5,5',6-NONACB (PCB-206) (13C12	2, 99%) (208263-75-6)	
Not listed on the United States TSCA (Toxic Sub	stances Control Act) inventory	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302	
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313	
2,4'-DICB (PCB-8) (13C12, 98%) (34883-43-7 (	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	
4-MONOCB (PCB-3) (13C12, 99%) (208263-77	-8)	
Not listed on the United States TSCA (Toxic Substances Control Act) inventory		
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 Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.	
2,3',4,4',5-PENTACB (PCB-118) (13C12, 98%)	(104130-40-7)	
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	Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.	
15.2. International regulations		

### CANADA

### PREDOMINANT MONO-DECA PCBS 2000 NG/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

## 2,2',3,3',4,4',5,5',6-NONACB (PCB-206) (13C12, 99%) (208263-75-6)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

### 4-MONOCB (PCB-3) (13C12, 99%) (208263-77-8)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

### 15.3. US State regulations

PREDOMINANT MONO-DECA PCBS 2000 NG/ML IN NONANE()	
U.S California - Proposition 65 - Carcinogens List	No

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26, 2012 / Rules and Regulation	ns				
PREDOMINANT MONO-D	DECA PCBS 2000 NG/ML IN	NONANE()			
U.S California - Proposit Toxicity	ion 65 - Developmental	No			
U.S California - Proposition 65 - Reproductive Toxicity - Female U.S California - Proposition 65 - Reproductive Toxicity - Male		No No			
DECACB (PCB-209) (130	C12, 99%) (105600-27-9)				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level	
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)	
Yes	Yes	No	No		
2,2',4,5,5'-PENTACB (PC	CB-101) (13C12, 99%) (1041	30-39-4)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level	
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)	
Yes	Yes	Yes	Yes		
2,2',5,5'-TETRACB (PCB	i-52) (13C12, 99%) (208263-	80-3)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level	
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRĽ)	
Yes	Yes	Yes	Yes		
2 4 4'-TRICR (PCR-28) (1	I3C12, 99%) (208263-76-7)				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level	
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)	
Yes	Yes	Yes	Yes		
2,2',3,4,4',5'-HEXACB (P	CB-138) (13C12, 99%) (208	263-66-5)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level	
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRĽ)	
Yes	Yes	Yes	Yes		
2,2',4,4',5,5'-HEXACB (P	CB-153) (13C12, 99%) (185	376-58-3)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level	
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)	
Yes	Yes	Yes	Yes		
N-NONANE UNLABELED	) (111-84-2)				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level	
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)	
No	No	No	No		
2,2',3,4,4',5,5'-HEPTACB	(PCB-180) (13C12, 99%) (3	35065-29-3 (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	No		
100	163	163	140		

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	CB-114) (13C12, 99%) (208263-			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity -	U.S California - Proposition 65 - Reproductive Toxicity -	No significant risk leve (NSRL)
		Female	Male	
Yes	Yes	Yes	Yes	
	B (PCB-194) (13C12, 98%) (20			
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 leve (NSRL)
Yes	Yes	Yes	Yes	
2,2',3,3',4,4',5,5',6-NONA	ACB (PCB-206) (13C12, 99%) (	208263-75-6)		
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 leve (NSRL)
Yes	Yes	Yes	Yes	
	12, 98%) (34883-43-7 (Unlabel	ed))		
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 leve (NSRL)
Yes	Yes	Yes	Yes	
4-MONOCR (PCR-3) (13	BC12, 99%) (208263-77-8)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk leve (NSRL)
Yes	Yes	Yes	Yes	
2,3',4,4',5-PENTACB (P	CB-118) (13C12, 98%) (104130	-40-7)		
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk leve (NSRL)

### State or local regulations

RTK - U.S. - Pennsylvania - RTK (Right to Know) List

RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

### 2,2',4,5,5'-PENTACB (PCB-101) (13C12, 99%) (104130-39-4)

### State or local regulations

RTK - U.S. - Pennsylvania - RTK (Right to Know) List

RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

### 2,2',5,5'-TETRACB (PCB-52) (13C12, 99%) (208263-80-3)

### State or local regulations

RTK - U.S. - Pennsylvania - RTK (Right to Know) List

RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

# 2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-76-7)

### State or local regulations

RTK - U.S. - Pennsylvania - RTK (Right to Know) List

RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

### 2,2',3,4,4',5'-HEXACB (PCB-138) (13C12, 99%) (208263-66-5)

### State or local regulations

RTK - U.S. - Pennsylvania - RTK (Right to Know) List

RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

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### 2,2',4,4',5,5'-HEXACB (PCB-153) (13C12, 99%) (185376-58-3)

### State or local regulations

RTK - U.S. - Pennsylvania - RTK (Right to Know) List

RTK - 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

RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

RTK - U.S. - Massachusetts - Right To Know List

RTK - U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

### 2,2',3,4,4',5,5'-HEPTACB (PCB-180) (13C12, 99%) (35065-29-3 (Unlabeled))

### State or local regulations

RTK - U.S. - Pennsylvania - RTK (Right to Know) List

RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

### 2,3,4,4',5-PENTACB (PCB-114) (13C12, 99%) (208263-63-2)

### State or local regulations

RTK - U.S. - Pennsylvania - RTK (Right to Know) List

RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

### 2,2',3,3',4,4',5,5'-OCTACB (PCB-194) (13C12, 98%) (208263-74-5)

### State or local regulations

RTK - U.S. - Pennsylvania - RTK (Right to Know) List

RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

### 2,2',3,3',4,4',5,5',6-NONACB (PCB-206) (13C12, 99%) (208263-75-6)

### State or local regulations

RTK - U.S. - Pennsylvania - RTK (Right to Know) List

RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

### 2,4'-DICB (PCB-8) (13C12, 98%) (34883-43-7 (Unlabeled))

### State or local regulations

RTK - U.S. - Pennsylvania - RTK (Right to Know) List

RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

### 4-MONOCB (PCB-3) (13C12, 99%) (208263-77-8)

### State or local regulations

RTK - U.S. - Pennsylvania - RTK (Right to Know) List

RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

### 2,3',4,4',5-PENTACB (PCB-118) (13C12, 98%) (104130-40-7)

### State or local regulations

RTK - U.S. - Pennsylvania - RTK (Right to Know) List

RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

## **SECTION 16: Other information**

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

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 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4

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## ( - D - C)

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

Hazardous to the aquatic environment - Acute Hazard Category 1		
Hazardous to the aquatic environment - Chronic Hazard Category 1		
Aspiration hazard Category 1		
Carcinogenicity Category 1A		
Serious eye damage/eye irritation Category 2		
Flammable liquids Category 3		
Reproductive toxicity Category 1A		
Skin corrosion/irritation Category 2		
Specific target organ toxicity (repeated exposure) Category 2		
Specific target organ toxicity (single exposure) Category 2		
Specific target organ toxicity (single exposure) Category 3		
Flammable liquid and vapor		
Harmful if swallowed		
May be fatal if swallowed and enters airways		
Harmful in contact with skin		
Causes skin irritation		
Causes serious eye irritation		
Harmful if inhaled		
May cause drowsiness or dizziness		
May cause cancer		
May damage fertility or the unborn child		
May cause damage to organs		
May cause damage to organs through prolonged or repeated exposure		
Very toxic to aquatic life		
Very toxic to aquatic life with long lasting effects		
Flammable		
Harmful by inhalation		
Harmful by inhalation, in contact with skin and if swallowed		
Danger of cumulative effects		
Irritating to eyes and skin		
Irritating to skin		
May cause cancer		
Danger of serious damage to health by prolonged exposure		
Harmful: danger of serious damage to health by prolonged exposure through inhalation		
Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed		
May cause cancer by inhalation		
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment		
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment		
May impair fertility		
May cause harm to the unborn child		
Harmful: may cause lung damage if swallowed		
Vapors may cause drowsiness and dizziness		
Dangerous for the environment		
Irritant		
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.



### **Hazard 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

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