

### **METHOD 1614 CALIBRATION SOLUTION (13C12,** 99%/UNLABELED) CS1

#### Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 /

Rules and Regulations

Date of issue: 26/01/2015 Revision date:

EO-5279-CS1

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

**Product identifier** 

Product form : Mixtures

: METHOD 1614 CALIBRATION SOLUTION (13C12, 99%/UNLABELED) CS1 Product name

: EO-5279-CS1 Product code

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only.

#### 1.2.2. Uses advised against

No additional information available

#### Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

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

#### **Emergency telephone number**

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-202-483-7616 (24 hours)

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

#### Classification of the substance or mixture

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

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

Full text of H-phrases: see section 16

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R20 Xn; R65 R10

Full text of R-phrases: see section 16

#### **Classification (GHS-US)**

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

#### Adverse physicochemical, human health and environmental effects

Central Nervous System.

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#### **Label elements**

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

Hazard pictograms (CLP)







Signal word (CLP) : Danger

: H226 - Flammable liquid and vapor Hazard statements (CLP)

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, sparks, open flames and other ignition sources. No Precautionary statements (CLP)

smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P261 - Avoid breathing fume, mist, spray, vapors P264 - Wash both hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area

P280 - Wear eye protection, face protection, protective clothing, protective gloves

#### **GHS-US** labeling

Hazard pictograms (GHS-US)







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 fume, mist, spray, vapors P264 - Wash Both hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area

P280 - Wear eye protection, face protection, protective clothing, protective gloves

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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/doctor/physician if you feel unwell

P331 - If swallowed, 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 for extinction

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

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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	99.999732867	R10 Xn; R20 Xn; R65 R67
DECABDE (BDE-209) (13C12, 99%) substance listed as REACH Candidate ("Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)")	(CAS No) 1163-19-5 (Unlabeled) (EC no) 214-604-9	0.000139276	T; R25 Xn; R20 Xn; R22
2,2',5,5'-TETRACB (PCB-52) (13C12, 99%)	(CAS No) 208263-80-3 (EC index no) 602-039-00-4	0.000013928	Carc.Cat.1; R45 N; R51/53 Xn; R48/20/21/22
2,2',4,4',5-PENTABDE (BDE-99) (13C12, 99%)	(CAS No) 60348-60-9 (Unlabeled)	0.000013928	Carc.Cat.1; R45 Carc.Cat.1; R49 Xn; R22 Xi; R41 Xi; R37 Xi; R38 N; R51/53
2,4,4'-TRIBDE (BDE-28) (13C12, 99%)	(CAS No) 41318-75-6 (Unlabeled)	0.000013928	Xn; R20/21/22 Carc.Cat.2; R45 Carc.Cat.2; R49
2,2',4,4'-TETRABDE (BDE-47) (13C12, 99%)	(CAS No) 5436-43-1 (Unlabeled)	0.000013928	Xn; R20/21/22
2,2',4,4',5,5'-HEXABDE (BDE-153) (13C12, 99%)	(CAS No) 68631-49-2 (Unlabeled)	0.000013928	Carc.Cat.1; R45 Carc.Cat.1; R49 Xn; R22 Xi; R41 Xi; R37 Xi; R38 N; R51/53
2,2',4,4',5,6'-HEXABDE (BDE-154) (13C12, 99%)	(CAS No) 488710-23-2	0.000013928	Carc.Cat.1; R45 Carc.Cat.1; R49 Xn; R20 Xn; R21 Xn; R22 N; R50
2,2',3,4,4',5',6-HEPTABDE (BDE-183) (13C12, 99%)	(CAS No) 207122-16-5 (Unlabeled)	0.000013928	Carc.Cat.1; R45 Carc.Cat.1; R49 Xn; R22 Xi; R41 Xi; R37 Xi; R38 N; R51/53
2,2',3,4,4',6-HEXABDE (BDE-139) (13C12, 99%)	(CAS No) 488710-25-4	0.000013928	Carc.Cat.1; R45 Carc.Cat.1; R49 Xn; R22 Xi; R41 Xi; R37 Xi; R38 N; R51/53
2,2',3,4,4',5'-HEXACB (PCB-138) (13C12, 99%)	(CAS No) 208263-66-5 (EC index no) 602-039-00-4	0.000013928	Xn; R48/20/21/22 N; R50/53 R33

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
DECABDE (BDE-209) UNLABELED substance listed as REACH Candidate ("Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)")	(CAS No) 1163-19-5 (Unlabeled) (EC no) 214-604-9	0.000001393	T; R25 Xn; R20 Xn; R22
2,2',4,4',6-PENTABDE (BDE-100) (13C12, 99%)	(CAS No) 189084-64-8 (Unlabeled)	0.00000139	Carc.Cat.1; R45 Carc.Cat.1; R49 Xn; R22 Xi; R41 Xi; R37 Xi; R38 N; R51/53
2,2',4,4',5,5'-HEXABDE (BDE-153) UNLABELED	(CAS No) 68631-49-2 (Unlabeled)	0.00000139	Carc.Cat.1; R45 Carc.Cat.1; R49 Xn; R22 Xi; R41 Xi; R37 Xi; R38 N; R51/53
2,2',3,4,4',5',6-HEPTABDE (BDE-183) UNLABELED	(CAS No) 207122-16-5 (unlabeled)	0.00000139	Carc.Cat.1; R45 Carc.Cat.1; R49 Xn; R22 Xi; R41 Xi; R37 Xi; R38 N; R51/53
2,2',4,4',5,6'-HEXABDE (BDE-154) UNLABELED	(CAS No) 207122-15-4 (Unlabeled)	0.00000139	Carc.Cat.1; R45 Carc.Cat.1; R49 Xn; R22 Xi; R41 Xi; R37 Xi; R38 N; R51/53
2,4,4'-TRIBDE (BDE-28) UNLABELED	(CAS No) 41318-75-6 (Unlabeled)	0.00000139	Carc.Cat.1; R45 Carc.Cat.1; R49 Xn; R22 Xi; R41 Xi; R37 Xi; R38 N; R51/53
2,2',4,4'-TETRABDE (BDE-47) UNLABELED	(CAS No) 5436-43-1 (Unlabeled)	0.00000139	Carc.Cat.1; R45 Carc.Cat.1; R49 Xn; R22 Xi; R41 Xi; R37 Xi; R38 N; R51/53
2,2',4,4',5-PENTABDE (BDE-99) UNLABELED	(CAS No) 60348-60-9 (Unlabeled)	0.00000139	Carc.Cat.1; R45 Carc.Cat.1; R49 Xn; R22 Xi; R41 Xi; R37 Xi; R38 N; R51/53
2,2',4,4',6-PENTABDE (BDE-100) UNLABELED	(CAS No) 189084-64-8 (Unlabeled)	0.00000139	Carc.Cat.1; R45 Carc.Cat.1; R49 Xn; R22 Xi; R41 Xi; R37 Xi; R38 N; R51/53
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	99.999732867	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

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
DECABDE (BDE-209) (13C12, 99%) substance listed as REACH Candidate ("Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)")	(CAS No) 1163-19-5 (Unlabeled) (EC no) 214-604-9	0.000139276	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332
2,2',5,5'-TETRACB (PCB-52) (13C12, 99%)	(CAS No) 208263-80-3 (EC index no) 602-039-00-4	0.000013928	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',4,4',5-PENTABDE (BDE-99) (13C12, 99%)	(CAS No) 60348-60-9 (Unlabeled)	0.000013928	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H335 Aquatic Chronic 2, H411
2,4,4'-TRIBDE (BDE-28) (13C12, 99%)	(CAS No) 41318-75-6 (Unlabeled)	0.000013928	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Chronic 2, H411
2,2',4,4'-TETRABDE (BDE-47) (13C12, 99%)	(CAS No) 5436-43-1 (Unlabeled)	0.000013928	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Chronic 2, H411
2,2',4,4',5,5'-HEXABDE (BDE-153) (13C12, 99%)	(CAS No) 68631-49-2 (Unlabeled)	0.000013928	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Chronic 2, H411
2,2',4,4',5,6'-HEXABDE (BDE-154) (13C12, 99%)	(CAS No) 488710-23-2	0.000013928	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Chronic 2, H411
2,2',3,4,4',5',6-HEPTABDE (BDE-183) (13C12, 99%)	(CAS No) 207122-16-5 (Unlabeled)	0.000013928	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Chronic 2, H411
2,2',3,4,4',6-HEXABDE (BDE-139) (13C12, 99%)	(CAS No) 488710-25-4	0.000013928	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Chronic 2, H411
2,2',3,4,4',5'-HEXACB (PCB-138) (13C12, 99%)	(CAS No) 208263-66-5 (EC index no) 602-039-00-4	0.000013928	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
DECABDE (BDE-209) UNLABELED substance listed as REACH Candidate ("Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)")	(CAS No) 1163-19-5 (Unlabeled) (EC no) 214-604-9	0.000001393	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332
2,2',4,4',6-PENTABDE (BDE-100) (13C12, 99%)	(CAS No) 189084-64-8 (Unlabeled)	0.000000139	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Chronic 2, H411
2,2',4,4',5,5'-HEXABDE (BDE-153) UNLABELED	(CAS No) 68631-49-2 (Unlabeled)	0.000000139	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Chronic 2, H411
2,2',3,4,4',5',6-HEPTABDE (BDE-183) UNLABELED	(CAS No) 207122-16-5 (unlabeled)	0.000000139	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Chronic 2, H411

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,2',4,4',5,6'-HEXABDE (BDE-154) UNLABELED	(CAS No) 207122-15-4 (Unlabeled)	0.000000139	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Chronic 2, H411
2,4,4'-TRIBDE (BDE-28) UNLABELED	(CAS No) 41318-75-6 (Unlabeled)	0.00000139	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Chronic 2, H411
2,2',4,4'-TETRABDE (BDE-47) UNLABELED	(CAS No) 5436-43-1 (Unlabeled)	0.000000139	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Chronic 2, H411
2,2',4,4',5-PENTABDE (BDE-99) UNLABELED	(CAS No) 60348-60-9 (Unlabeled)	0.00000139	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Chronic 2, H411
2,2',4,4',6-PENTABDE (BDE-100) UNLABELED	(CAS No) 189084-64-8 (Unlabeled)	0.000000139	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411 Carc. 1A, H350
Name	Product identifier	%	Classification (GHS-US)
N-NONANE UNLABELED	(CAS No) 111-84-2	99.999732867	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 R-, H- and EUH-phrases: see section 16

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Move out of dangerous area. Consult a physician and show this safety data sheet.

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

CENTER/doctor/physician if you feel unwell.

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

Wash contaminated clothing before reuse.

First-aid measures after eye contact : Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical

attention.

First-aid measures after ingestion : Immediately call a POISON CENTER or doctor/physician.

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

Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : Causes skin irritation. Symptoms/injuries after eye contact : Causes eye irritation.

Symptoms/injuries 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

: For small fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

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

Fire hazard : Flammable liquid and vapor.

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

Reactivity : Vapors may form explosive mixture with air.

5.3. Advice for firefighters

Firefighting instructions : Use water spray to cool unopened containers.

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

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

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours

accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain spillage, then collect with non-combustible absorbent material. Disposal should be in accordance with applicable Federal, State and local regulations.

#### 6.4. Reference to other sections

No additional information available

#### **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 : No naked lights. No smoking. Take precautionary measures against static discharge. Use only

non-sparking tools. Use only outdoors or in a well-ventilated area.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and at the end of workday.

#### 7.2. Conditions for safe storage, including any incompatibilities

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

container and receiving equipment.

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

Incompatible materials : Heat sources.

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

No additional information available

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

#### 8.1. Control parameters

METHOD 1614 CALIBRATION	N SOLUTION (13C12, 99%/UNLABELED) CS1	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.000000000 ppm Central Nervous System impairment.
N-NONANE UNLABELED (11	1-84-2)	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.000000000 ppm Central Nervous System impairment.
2,2',5,5'-TETRACB (PCB-52)	(13C12, 99%) (208263-80-3)	
USA OSHA	OSHA PEL (TWA) (mg/m3)	0.500000000 mg/m³

DECABDE	(BDE-209)	(13C12, 99%) (	(1163-19-5 (เ	Unlabeled))

USA OSHA OSHA PEL (TWA) (mg/m3) 5.0000000000 mg/m³

#### DECABDE (BDE-209) UNLABELED (1163-19-5 (Unlabeled))

USA OSHA OSHA PEL (TWA) (mg/m3) 5.0000000000 mg/m³

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#### 8.2. Exposure controls

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



Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Wear safety glasses with side shields (or goggles) and a face shield.

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.

#### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

The properties listed below are for the solvent, the main component of this mixture.

Physical state : Liquid

Appearance : Liquid.

Molecular mass : 128.3

Color : No data available. : No data available Odor Odor threshold : No data available : No data available рΗ Relative evaporation rate (butyl acetate=1) : No data available : -53 °C (- 63 °F) - lit Melting point Freezing point : No data available : 151 °C (304 °F) - lit **Boiling point** 

Flash point : 31.0 °C (87.8 °F) - closed cup

Self ignition temperature : 205 °C (401 °F)

Decomposition temperature : No data available

Flammability (solid, gas) : Flammable liquid and vapor

Vapor pressure : 12.4 hPa (9.3 mmHg) at 37.7 °C (99.9 °F)

Relative vapor density at 20 °C : No data available
Relative density : No data available
Solubility : Water: 0 %
Log Pow : 5.65

Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosive limits : 0.87 - 2.9 % (V)

#### 9.2. Other information

No additional information available

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Vapors may form explosive mixture with air.

#### 10.2. Chemical stability

See storage and expiration date on CoA.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. Heat. Sparks.

#### 10.5. Incompatible materials

Strong oxidizing agents.

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#### 10.6. Hazardous decomposition products

May release flammable gases.

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

#### 11.1. Information on toxicological effects

Acute toxicity : Harmful if inhaled.

METHOD 1614 CALIBRATION SOLUTION (13C12, 99%/UNLABELED) CS1	
LC50 inhalation rat (ppm)	3200 ppm/4h
ATE (gases)	4500.000 ppmV/4h
ATE (vapors)	11.000 mg/l/4h
ATE (dust, mist)	1.500 mg/l/4h

N-NONANE UNLABELED (111-84-2)	
LC50 inhalation rat (ppm)	3200 ppm/4h
ATE (dust, mist)	1.500 mg/l/4h

### **2,2',4,4',5-PENTABDE (BDE-99) (13C12, 99%) (60348-60-9 (Unlabeled))**LD50 Intraperitoneal-mouse-125mg/kg

DECABDE (BDE-209) (13C12, 99%) (1163-19-5 (Unlabeled))	
ATE (oral)	500.000 mg/kg body weight
ATE (dermal)	1100.000 mg/kg body weight
ATE (gases)	4500.000 ppmV/4h
ATE (vapors)	11.000 mg/l/4h
ATE (dust, mist)	1.500 mg/l/4h

DECABDE (BDE-209) UNLABELED (1163-19-5 (Unlabeled))	
ATE (oral)	500.000 mg/kg body weight
ATE (dermal)	1100.000 mg/kg body weight
ATE (gases)	4500.000 ppmV/4h
ATE (vapors)	11.000 mg/l/4h
ATE (dust, mist)	1.500 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.

Skin - rat - Skin irritation - Draize test

Serious eye damage/irritation : Causes serious eye irritation.

No data available Not available

Respiratory or skin sensitization : Not available

No data available

: Not available

: Not alassified

Germ cell mutagenicity : Not available
Carcinogenicity : Not classified
Reproductive toxicity : Not available

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

May cause drowsiness or dizziness.

Specific target organ toxicity (repeated

exposure)

: Not classified

No data available

Aspiration hazard : May be fatal if swallowed and enters airways.

Potential Adverse human health effects and

symptoms

: The chemical, physical, and toxicological properties have not been thoroughly investigated.

Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes eye irritation.

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

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

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

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	o Federal Register / Vol. //, No. 58 / Monday, March 26, 2012 / Rules and Regulations
2,2',5,5'-TETRACB (PCB-52) (13C12, 99%) (20 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
12.2. Persistence and degradability	
METHOD 1614 CALIBRATION SOLUTION (130	
Persistence and degradability	Not available.
N-NONANE UNLABELED (111-84-2)	
Persistence and degradability	Not available.
2,2',5,5'-TETRACB (PCB-52) (13C12, 99%) (20	
Persistence and degradability	Not available.
2,2',4,4',5-PENTABDE (BDE-99) (13C12, 99%)	
Persistence and degradability	Not available.
DECABDE (BDE-209) (13C12, 99%) (1163-19-5	
Persistence and degradability	No data available.
2,4,4'-TRIBDE (BDE-28) (13C12, 99%) (41318-7	
Persistence and degradability	Not available.
2,2',4,4'-TETRABDE (BDE-47) (13C12, 99%) (54	, , ,
Persistence and degradability	Not available.
2,2',4,4',5,5'-HEXABDE (BDE-153) (13C12, 99%	
Persistence and degradability	Not available.
2,2',4,4',5,6'-HEXABDE (BDE-154) (13C12, 99%	
Persistence and degradability	Not available.
2,2',3,4,4',5',6-HEPTABDE (BDE-183) (13C12,	
Persistence and degradability	Not available.
2,2',3,4,4',6-HEXABDE (BDE-139) (13C12, 99%	
Persistence and degradability	Not available.
2,2',4,4',6-PENTABDE (BDE-100) (13C12, 99%	
Persistence and degradability	Not available.
2,2',4,4',5,5'-HEXABDE (BDE-153) UNLABELE	
Persistence and degradability	Not available.
2,2',3,4,4',5',6-HEPTABDE (BDE-183) UNLABE	
Persistence and degradability	Not available.
2,2',4,4',5,6'-HEXABDE (BDE-154) UNLABELE	, , , , , , , , , , , , , , , , , , , ,
Persistence and degradability	Not available.
2,4,4'-TRIBDE (BDE-28) UNLABELED (41318-7	
Persistence and degradability	Not available.
DECABDE (BDE-209) UNLABELED (1163-19-5	
Persistence and degradability	No data available.
2,2',4,4'-TETRABDE (BDE-47) UNLABELED (5	` "
Persistence and degradability	Not available.
2,2',4,4',5-PENTABDE (BDE-99) UNLABELED (	•
Persistence and degradability	Not available.
2,2',3,4,4',5'-HEXACB (PCB-138) (13C12, 99%)	
Persistence and degradability	Not available.
2,2',4,4',6-PENTABDE (BDE-100) UNLABELED	
Persistence and degradability	Not available.

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12.3. Bioaccumulative potential	
METHOD 1614 CALIBRATION SOLUTION (130	C12, 99%/UNLABELED) CS1
Log Pow	5.65
Bioaccumulative potential	Indication of bioaccumulation.
N-NONANE UNLABELED (111-84-2)	
Log Pow	5.65
Bioaccumulative potential	Indication of bioaccumulation.
2,2',5,5'-TETRACB (PCB-52) (13C12, 99%) (20	8263-80-3)
Bioaccumulative potential	Not available.
2,2',4,4',5-PENTABDE (BDE-99) (13C12, 99%)	(60348-60-9 (Unlaheled))
Bioaccumulative potential	Not available.
•	
DECABDE (BDE-209) (13C12, 99%) (1163-19-3 Bioaccumulative potential	No data available.
•	
2,4,4'-TRIBDE (BDE-28) (13C12, 99%) (41318-7	
Bioaccumulative potential	Not available.
2,2',4,4'-TETRABDE (BDE-47) (13C12, 99%) (5	
Bioaccumulative potential	Not available.
2,2',4,4',5,5'-HEXABDE (BDE-153) (13C12, 999	%) (68631-49-2 (Unlabeled))
Bioaccumulative potential	Not available.
2,2',4,4',5,6'-HEXABDE (BDE-154) (13C12, 99°	//
Bioaccumulative potential	Not available.
·	
2,2',3,4,4',5',6-HEPTABDE (BDE-183) (13C12,	
Bioaccumulative potential	Not available.
2,2',3,4,4',6-HEXABDE (BDE-139) (13C12, 99%	
Bioaccumulative potential	Not available.
2,2',4,4',6-PENTABDE (BDE-100) (13C12, 99%	o) (189084-64-8 (Unlabeled))
Bioaccumulative potential	Not available.
2,2',4,4',5,5'-HEXABDE (BDE-153) UNLABELE	ED (68631-49-2 (Unlabeled))
Bioaccumulative potential	Not available.
2,2',3,4,4',5',6-HEPTABDE (BDE-183) UNLABE	I ED (207122-16-5 (unlaboled))
Bioaccumulative potential	Not available.
·	
2,2',4,4',5,6'-HEXABDE (BDE-154) UNLABELE	Not available.
Bioaccumulative potential	Not available.
2,4,4'-TRIBDE (BDE-28) UNLABELED (41318-7	
Bioaccumulative potential	Not available.
DECABDE (BDE-209) UNLABELED (1163-19-	5 (Unlabeled))
Bioaccumulative potential	No data available.
2,2',4,4'-TETRABDE (BDE-47) UNLABELED (5	5436-43-1 (Unlabeled))
Bioaccumulative potential	Not available.
2,2',4,4',5-PENTABDE (BDE-99) UNLABELED	(60348-60-9 (Unlabeled))
Bioaccumulative potential	Not available.
·	
2,2',3,4,4',5'-HEXACB (PCB-138) (13C12, 99%	
Bioaccumulative potential	Not available.
2,2',4,4',6-PENTABDE (BDE-100) UNLABELEI	, , , , , , , , , , , , , , , , , , , ,
Bioaccumulative potential	Not available.
12.4. Mobility in soil	
METHOD 1614 CALIBRATION SOLUTION (130	C12, 99%/UNLABELED) CS1
Ecology - soil	Not available.

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according to regulation (EC) No. 400/2010 and according	g to Federal Register / Vol. //, No. 35 / Monday, March 20, 2012 / Rules and Regulations	
N-NONANE UNLABELED (111-84-2) Ecology - soil	Not available.	
<u> </u>		
2,2',5,5'-TETRACB (PCB-52) (13C12, 99%) (3		
Ecology - soil	Not available.	
2,2',4,4',5-PENTABDE (BDE-99) (13C12, 99%	%) (60348-60-9 (Unlabeled))	
Ecology - soil	Not available.	
DECABDE (BDE-209) (13C12, 99%) (1163-19	9-5 (Unlabeled))	
Ecology - soil	No data available.	
2,4,4'-TRIBDE (BDE-28) (13C12, 99%) (41318	3-75-6 (Unjahejed))	
Ecology - soil	Not available.	
2,2',4,4'-TETRABDE (BDE-47) (13C12, 99%)		
Ecology - soil	Not available.	
2,2',4,4',5,5'-HEXABDE (BDE-153) (13C12, 9		
Ecology - soil	Not available.	
2,2',4,4',5,6'-HEXABDE (BDE-154) (13C12, 9	9%) (488710-23-2)	
Ecology - soil	Not available.	
2,2',3,4,4',5',6-HEPTABDE (BDE-183) (13C1)	2. 99%) (207122-16-5 (Unlabeled))	
Ecology - soil	Not available.	
<b>2,2',3,4,4',6-HEXABDE (BDE-139) (13C12, 99</b> Ecology - soil	9%) (488/10-25-4)  Not available.	
·		
2,2',4,4',6-PENTABDE (BDE-100) (13C12, 99	. ,	
Ecology - soil	Not available.	
2,2',4,4',5,5'-HEXABDE (BDE-153) UNLABE	LED (68631-49-2 (Unlabeled))	
Ecology - soil	Not available.	
2,2',3,4,4',5',6-HEPTABDE (BDE-183) UNLAE	BELED (207122-16-5 (unlabeled))	
Ecology - soil	Not available.	
2,2',4,4',5,6'-HEXABDE (BDE-154) UNLABE	I FD (207122-15-4 (Unlaheled))	
Ecology - soil	Not available.	
0,		
2,4,4'-TRIBDE (BDE-28) UNLABELED (41318		
Ecology - soil	Not available.	
DECABDE (BDE-209) UNLABELED (1163-19	9-5 (Unlabeled))	
Ecology - soil	No data available.	
2,2',4,4'-TETRABDE (BDE-47) UNLABELED	(5436-43-1 (Unlabeled))	
Ecology - soil	Not available.	
2,2',4,4',5-PENTABDE (BDE-99) UNLABELE	D (60348-60-9 (Unlabeled))	
Ecology - soil	Not available.	
2,2',3,4,4',5'-HEXACB (PCB-138) (13C12, 99 Ecology - soil	%) (208263-66-5)  Not available.	
07		
2,2',4,4',6-PENTABDE (BDE-100) UNLABEL	, "	
Ecology - soil	Not available.	
12.5. Results of PBT and vPvB assessment	ent	
DECABDE (BDE-209) (13C12, 99%) (1163-19	9-5 (Unlabeled))	
This substance/mixture meets the PBT criteria		
This substance/mixture meets the vPvB criteria of REACH, annex XIII.		
DECABDE (BDE-209) UNLABELED (1163-19-5 (Unlabeled))  This substance/mixture meets the PBT criteria of REACH, annex XIII.		
This substance/mixture meets the PBT criteria  This substance/mixture meets the vPvB criteria		
This substance/inixture meets the VF VD Chienc	a of NEATON, difflox Affi.	

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#### 12.6. Other adverse effects

Other adverse effects

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic 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.

Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations.

Additional information

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

Ecology - waste materials : Hazardous waste due to toxicity.

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

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

UN-No.(DOT) : 1920 DOT NA no. UN1920

#### 14.2. UN proper shipping name

**DOT Proper Shipping Name** 

: Nonanes

Department of Transportation (DOT) Hazard Classes

: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT)

: III - Minor Danger

DOT Special Provisions (49 CFR 172.102)

B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only 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
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 242

#### 14.3. Additional information

Other information : No supplementary information available.

#### **Overland transport**

Packing group (ADR) : III

Class (ADR) : 3 - Flammable liquid

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

Danger labels (ADR) : 3 - Flammable liquids



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Orange plates : 30

Tunnel restriction code : D/E
Limited quantities (ADR) 5L
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 : 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.

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

METHOD 1614 CALIBRATION SOLUTION (13C12, 99%/UNLABELED) CS1	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard

N-NONANE UNLABELED (111-84-2)

SARA Section 311/312 Hazard Classes

Fire hazard
Immediate (acute) health hazard

#### 15.2. International regulations

#### CANADA

#### METHOD 1614 CALIBRATION SOLUTION (13C12, 99%/UNLABELED) CS1

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### 15.2.1. National regulations

No additional information available

#### 15.3. US State regulations

#### METHOD 1614 CALIBRATION SOLUTION (13C12, 99%/UNLABELED) CS1()

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

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### N-NONANE UNLABELED (111-84-2)

U.S. - Massachusetts - Right To Know List

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### METHOD 1614 CALIBRATION SOLUTION (13C12, 99%/UNLABELED)

### CS1 EO-5279-CS1

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#### N-NONANE UNLABELED (111-84-2)

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

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

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### **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::

itckt of it, if and Loff philases	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4	Acute toxicity (inhalation:dust,mist) Category 4
(Inhalation:dust,mist)	
Acute Tox. 4 (Oral)	Acute toxicity (oral) 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
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
Eye Dam. 1	Serious eye damage/eye irritation 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
Skin Sens. 1	Skin sensitization Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H350	May cause cancer
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
R10	Flammable
R20	Harmful by inhalation
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R21	Harmful in contact with skin
R22	Harmful if swallowed
R25	Toxic if swallowed
R33	Danger of cumulative effects
R33	
	Irritating to respiratory system
R38	Irritating to skin
R41	Risk of serious damage to eyes
R45	May cause cancer
R48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed
R49	May cause cancer by inhalation
R50	Very toxic to aquatic organisms
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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R65	Harmful: may cause lung damage if swallowed
R67	Vapors may cause drowsiness and dizziness
N	Dangerous for the environment
Т	Toxic
Xi	Irritant
Xn	Harmful

NFPA health hazard : 2 - Intense or continued exposure could cause temporary

incapacitation or possible residual injury unless prompt

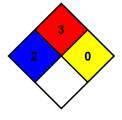
medical attention is given.

NFPA fire hazard : 3 - Liquids and solids that can be ignited under almost all

ambient conditions.

NFPA reactivity 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



#### **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

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