

## 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: 29/08/2017 Revision date: 04/05/2018 Supersedes: 29/08/2017 Version: 1.1

EC-5582

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

1.1. Product identifier

Product form : Mixtures

Product name : MO & NDL PCB MIXTURE (UNLABELED) IN ISOOCTANE

Product code : EC-5582

### 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. 2 H225
Skin Irrit. 2 H315
STOT SE 3 H336
Asp. Tox. 1 H304
Aquatic Acute 1 H400
Aquatic Chronic 1 H410

Full text of hazard classes and H-statements : see section 16

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R38 N; R50/53 R67 F; R11 Xn; R65

Full text of R-phrases: see section 16

### **GHS-US** classification

Flam. Liq. 2 H225 Skin Irrit. 2 H315 STOT SE 3 H336 Asp. Tox. 1 H304 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

Full text of H statements : see section 16

## Adverse physicochemical, human health and environmental effects

Liver, Kidney.

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### 2.2. Label elements

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

Hazard pictograms (CLP)

Signal word (CLP)









: Danger

Hazard statements (CLP) : H225 - Highly flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H410 - Very toxic to aquatic life with long lasting effects

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 ventilating, lighting, electrical equipment P261 - Avoid breathing vapors, spray, mist, gas, fume, dust P264 - Wash hands, forearms and face thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

### **GHS-US** labeling

Hazard pictograms (GHS-US)









Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) : P210 - Keep away from sparks, open flames, hot surfaces, heat. - 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 mist, spray, vapors, gas, fume, dust P264 - Wash hands, forearms and face thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

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

P301+P310 - If swallowed: Immediately call a 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

P312 - Call a 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 P362+P364 - Take off contaminated clothing and wash it before reuse

P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry

extinguishing powder to extinguish

P391 - Collect spillage

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P403+P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

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### Other hazards

No additional information available

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

### **Substances**

Not applicable

### **Mixtures**

| Name                               | Product identifier  | %       | Classification according to<br>Directive 67/548/EEC   |
|------------------------------------|---|---------|---|
| ISOOCTANE UNLABELED                | (CAS No) 540-84-1<br>(EC No) 208-759-1<br>(EC Index No) 601-009-00-8<br>(REACH-no) 01-2119457965-22 | 99.998  | Xi; R38<br>N; R50/53<br>R67<br>F; R11<br>Xn; R65  |
| 2,3,3',4,4',5-HEXACB UNLABELED     | (CAS No) 38380-08-4<br>(EC Index No) 602-039-00-4   | 0.00014 | R33   |
| 2,2',3,4,4',5'-HEXACB UNLABELED    | (CAS No) 35065-28-2   | 0.00014 | N; R50/53<br>R33  |
| 2,2',4,4',5,5'-HEXACB UNLABELED    | (CAS No) 35065-27-1<br>(EC No) 215-648-1  | 0.00014 | R33   |
| 2,2',4,5,5'-PENTACB UNLABELED      | (CAS No) 37680-73-2   | 0.00014 | R33   |
| 2,2',3,4,4',5,5'-HEPTACB UNLABELED | (CAS No) 35065-29-3   | 0.00014 | R33   |
| 2,3,3',4,4',5,5'-HEPTACB UNLABELED | (CAS No) 39635-31-9<br>(EC Index No) 602-039-00-4   | 0.00014 | R33   |
| 2',3,4,4',5-PENTACB UNLABELED      | (CAS No) 65510-44-3<br>(EC Index No) 602-039-00-4   | 0.00014 | R33   |
| 2,3',4,4',5,5'-HEXACB UNLABELED    | (CAS No) 52663-72-6<br>(EC Index No) 602-039-00-4   | 0.00014 | R33   |
| 2,3,3',4,4'-PENTACB UNLABELED      | (CAS No) 32598-14-4<br>(EC Index No) 602-039-00-4   | 0.00014 | Xn; R22<br>R33<br>N; R50/53   |
| 2,3,4,4',5-PENTACB UNLABELED       | (CAS No) 74472-37-0<br>(EC Index No) 602-039-00-4   | 0.00014 | Xn; R22<br>N; R50/53  |
| 2,3',4,4',5-PENTACB UNLABELED      | (CAS No) 31508-00-6<br>(EC No) 215-648-1<br>(EC Index No) 602-039-00-4                              | 0.00014 | Xn; R22   |
| 2,4,4'-TRICB UNLABELED             | (CAS No) 7012-37-5<br>(EC No) 230-293-2   | 0.00014 | Xi; R36/37/38<br>N; R50/53  |
| 2,2',5,5'-TETRACB UNLABELED        | (CAS No) 35693-99-3<br>(EC Index No) 602-039-00-4   | 0.00014 | Xn; R22<br>N; R50/53  |
| 2,3,3',4,4',5'-HEXACB UNLABELED    | (CAS No) 69782-90-7<br>(EC Index No) 602-039-00-4   | 0.00014 | R33   |
| Name                               | Product identifier  | %       | Classification according to<br>Regulation (EC) No.<br>1272/2008 [CLP]   |
| ISOOCTANE UNLABELED                | (CAS No) 540-84-1<br>(EC No) 208-759-1<br>(EC Index No) 601-009-00-8<br>(REACH-no) 01-2119457965-22 | 99.998  | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| 2,3,3',4,4',5-HEXACB UNLABELED     | (CAS No) 38380-08-4<br>(EC Index No) 602-039-00-4   | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,2',3,4,4',5'-HEXACB UNLABELED    | (CAS No) 35065-28-2   | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,2',4,4',5,5'-HEXACB UNLABELED    | (CAS No) 35065-27-1<br>(EC No) 215-648-1  | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,2',4,5,5'-PENTACB UNLABELED      | (CAS No) 37680-73-2   | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,2',3,4,4',5,5'-HEPTACB UNLABELED | (CAS No) 35065-29-3   | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |

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| Name                               | Product identifier   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|------------------------------------|--|---------|---|
| 2,3,3',4,4',5,5'-HEPTACB UNLABELED | (CAS No) 39635-31-9<br>(EC Index No) 602-039-00-4                      | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2',3,4,4',5-PENTACB UNLABELED      | (CAS No) 65510-44-3<br>(EC Index No) 602-039-00-4                      | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,3',4,4',5,5'-HEXACB UNLABELED    | (CAS No) 52663-72-6<br>(EC Index No) 602-039-00-4                      | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,3,3',4,4'-PENTACB UNLABELED      | (CAS No) 32598-14-4<br>(EC Index No) 602-039-00-4                      | 0.00014 | Eye Dam. 1, H318<br>STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,3,4,4',5-PENTACB UNLABELED       | (CAS No) 74472-37-0<br>(EC Index No) 602-039-00-4                      | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,3',4,4',5-PENTACB UNLABELED      | (CAS No) 31508-00-6<br>(EC No) 215-648-1<br>(EC Index No) 602-039-00-4 | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,4,4'-TRICB UNLABELED             | (CAS No) 7012-37-5<br>(EC No) 230-293-2                                | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,2',5,5'-TETRACB UNLABELED        | (CAS No) 35693-99-3<br>(EC Index No) 602-039-00-4                      | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,3,3',4,4',5'-HEXACB UNLABELED    | (CAS No) 69782-90-7<br>(EC Index No) 602-039-00-4                      | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| Name                               | Product identifier   | %       | GHS-US classification   |
| ISOOCTANE UNLABELED                | (CAS No) 540-84-1  | 99.998  | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| 2,3,3',4,4',5-HEXACB UNLABELED     | (CAS No) 38380-08-4  | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,2',3,4,4',5'-HEXACB UNLABELED    | (CAS No) 35065-28-2  | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,2',4,4',5,5'-HEXACB UNLABELED    | (CAS No) 35065-27-1  | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,2',4,5,5'-PENTACB UNLABELED      | (CAS No) 37680-73-2  | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,2',3,4,4',5,5'-HEPTACB UNLABELED | (CAS No) 35065-29-3  | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,3,3',4,4',5,5'-HEPTACB UNLABELED | (CAS No) 39635-31-9  | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2',3,4,4',5-PENTACB UNLABELED      | (CAS No) 65510-44-3  | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,3',4,4',5,5'-HEXACB UNLABELED    | (CAS No) 52663-72-6  | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,3,3',4,4'-PENTACB UNLABELED      | (CAS No) 32598-14-4  | 0.00014 | Eye Dam. 1, H318<br>STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,3,4,4',5-PENTACB UNLABELED       | (CAS No) 74472-37-0  | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,3',4,4',5-PENTACB UNLABELED      | (CAS No) 31508-00-6  | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,4,4'-TRICB UNLABELED             | (CAS No) 7012-37-5   | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 2,2',5,5'-TETRACB UNLABELED        | (CAS No) 35693-99-3  | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |

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| Name                            | Product identifier  | %       | GHS-US classification   |
|---------------------------------|---------------------|---------|---|
| 2,3,3',4,4',5'-HEXACB UNLABELED | (CAS No) 69782-90-7 | 0.00014 | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

Full text of R- and H- phrases: see section 16

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

### **Description of first aid measures**

First-aid measures general : If you feel unwell, seek medical advice.

First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial

Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin First-aid measures after skin contact

irritation occurs: Get medical advice/attention.

First-aid measures after eye contact Rinse eyes with water as a precaution.

Never give anything by mouth to an unconscious person. Do not induce vomiting. Call a First-aid measures after ingestion

physician immediately.

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

Symptoms/injuries : May cause drowsiness or dizziness.

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

Symptoms/injuries after skin contact : Causes skin irritation. May be harmful in contact with skin.

Symptoms/injuries after eye contact May cause severe irritation.

Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways. Risk of lung edema.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5: Firefighting measures**

### **Extinguishing media**

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide. Flood fire area with water from a distance.

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

: Extremely flammable liquid and vapor. Fire hazard

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

vapors may form flammable mixture with air. Highly flammable liquid and vapor. Reactivity

### Advice for firefighters

Firefighting instructions : Wear a self contained breathing apparatus

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

not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

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

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

### 6.1.1. For non-emergency personnel

Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing vapors, **Emergency procedures** 

mist, gas. Avoid contact with skin and eyes. Use personal protective equipment as required. Remove all sources of ignition. Ensure adequate air ventilation. Provide adequate ventilation to

minimize dust and/or vapor concentrations.

### 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".

### **Environmental precautions**

Stop leak, if possible without risk. Prevent entry to sewers and public waters. Avoid release to the environment.

## Methods and material for containment and cleaning up

For containment : Collect spillage. Vacuum with an equipment that avoids ignition risk. This material and its

container must be disposed of in a safe way, and as per local legislation.

Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public Methods for cleaning up waters.

### Reference to other sections

No additional information available

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### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed

: Avoid all contact with skin, eyes, or clothing.

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 dust, fume, gas, mist, spray, vapors. Avoid contact with skin and eyes.

Hygiene measures

: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. 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, including any incompatibilities

Technical measures

 Ground/bond container and receiving equipment. Keep dry. Store in tightly closed, leak-proof containers. Containers which are opened should be properly resealed and kept upright to prevent leakage.

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

| ontrol parameters                             |  |   |  |
|---|--|---|--|
| MO & NDL PCB MIXTURE (UNLABELED) IN ISOOCTANE |  |   |  |
| Italy - Portugal - USA ACGIH                  | ACGIH TWA (ppm)                          | 300.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV) |  |
| Italy - Portugal - USA ACGIH                  | Remark (ACGIH)                           | Upper Respiratory Tract irritation                              |  |
| ISOOCTANE UNLABELED (540-84-1)                |  |   |  |
| Italy - Portugal - USA ACGIH                  | ACGIH TWA (ppm)                          | 300.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV) |  |
| Italy - Portugal - USA ACGIH                  | Remark (ACGIH)                           | Upper Respiratory Tract irritation                              |  |
| 2,2',5,5'-TETRACB UNLABEL                     | 2,2',5,5'-TETRACB UNLABELED (35693-99-3) |   |  |
| USA OSHA                                      | OSHA PEL (TWA) (mg/m³)                   | 0.5 mg/m³   |  |

## 8.2. Exposure controls

Appropriate engineering controls

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Ensure good ventilation of the work station.

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









Materials for protective clothing

: Wear suitable protective clothing and gloves.: Wear suitable protective clothing and gloves.

Hand protection

Eye protection

: Wear eye protection. Chemical goggles or face shield with safety glasses. Safety glasses.

Skin and body protection

: Wear suitable protective clothing, gloves and eye/face protection.

Respiratory protection

: In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.

Environmental exposure controls : Avoid release to the environment.

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

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

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

Physical state : Liquid

Appearance : Liquid

Molecular mass : 114.23 g/mol

Color : Colorless

Color : Coloriess
Odor : No data available
Odor threshold : No data available
pH : No data available
Relative evaporation rate (butyl acetate=1) : No data available

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Melting point : -107 °C (-161 °F)
Freezing point : No data available

Boiling point : 98 - 99 °C (208 - 210 °F) at 1,013 hPa (760 mmHg)

Flash point : -12 °C (10 °F) - closed cup

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Not applicable

Vapor pressure : 55 hPa (41 mmHg) at 21 °C (70 °F); 117 hPa (88 mmHg) at 37.8 °C (100.04 °F)

Relative vapor density at 20  $^{\circ}$ C : 3.94 - (Air = 1.0) Relative density : No data available

Specific gravity / density : 0.69 g/ml at 20 °C (68 °F)

Solubility : Water: insoluble

Log Pow : 4.6

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
Explosion limits : 1 - 6 % (V)

### 9.2. Other information

No additional information available

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

### 10.1. Reactivity

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

### 10.2. Chemical stability

See storage and expiration date on CoA.

## 10.3. Possibility of hazardous reactions

Vapors may form explosive mixture with air.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO2).

### SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

MO & NDL PCR MIXTURE (UNI ARELED) IN ISOOCTANE

| MO & RIDE I OD MINTORE (OREADELED) IN 100001 FARE |   |
|---|---|
| LD50 oral rat                                     | > 5000 mg/kg (OECD Test Guideline 401)    |
| LD50 dermal rabbit                                | > 2000 mg/kg (OECD Test Guideline 402)    |
| LC50 inhalation rat (mg/l)                        | > 33.52 mg/l/4h (OECD Test Guideline 403) |
| ISOOCTANE UNLABELED (540-84-1)                    |   |
| LD50 oral rat                                     | > 5000 mg/kg (OECD Test Guideline 401)    |
| LD50 dermal rabbit                                | > 2000 mg/kg (OECD Test Guideline 402)    |
| LC50 inhalation rat (mg/l)                        | > 33.52 mg/l/4h (OECD Test Guideline 403) |

Skin corrosion/irritation : Skin. Rabbit. Result: Irritating to skin. (OECD 404 method)
Serious eye damage/irritation : Eyes. Rabbit. Result: No eye irritation. (OECD 405 method)

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Rat - Unscheduled DNA synthesis

Carcinogenicity : Not classified
Reproductive toxicity : Not available

Specific target organ toxicity – single exposure : May cause drowsiness or dizziness

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Specific target organ toxicity - repeated

exposure

: Health hazard - Aspiration hazard

Aspiration hazard

: Aspiration hazard

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. Affects the liver.

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

: Causes skin irritation. May be harmful in contact with skin. Symptoms/injuries after skin contact

Symptoms/injuries after eye contact : May cause severe irritation.

Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways. Risk of lung edema.

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

### **Toxicity**

: Very toxic to aquatic life with long lasting effects. Ecology - water

| 2,3,3',4,4',5-HEXACB UNLABELED (38380-08-4)  |   |
|--|---|
| LC50 fish 1                                  | > 0.16 mg/l Pimephales promelas (fathead minnow) - 96 h |
| EC50 Daphnia 1                               | > 0.16 mg/l Daphnia magna (Water flea) - 48 h           |
| 2,3,3',4,4',5,5'-HEPTACB UNLABELED (3963     | 5-31-9)   |
| LC50 fish 1                                  | > 0.16 mg/l Pimephales promelas (fathead minnow) - 96 h |
| EC50 Daphnia 1                               | > 0.16 mg/l Daphnia magna (Water flea) - 48 h           |
| 2',3,4,4',5-PENTACB UNLABELED (65510-44-3)   |   |
| LC50 fish 1                                  | > 0.16 mg/l Pimephales promelas (fathead minnow) - 96 h |
| EC50 Daphnia 1                               | > 0.16 mg/l Daphnia magna (Water flea) - 48 h           |
| 2,3',4,4',5,5'-HEXACB UNLABELED (52663-72-6) |   |
| LC50 fish 1                                  | > 0.16 mg/l Pimephales promelas (fathead minnow) - 96 h |
| EC50 Daphnia 1                               | > 0.16 mg/l Daphnia magna (Water flea) - 48 h           |
| 2,3,3',4,4'-PENTACB UNLABELED (32598-14-4)   |   |
| LC50 fish 1                                  | > 0.16 mg/l Pimephales promelas (fathead minnow) - 96 h |
| EC50 Daphnia 1                               | > 0.16 mg/l Daphnia magna (Water flea) - 48 h           |

| •                                  | 0 1 0 ( )   |
|------------------------------------|---|
| 2,4,4'-TRICB UNLABELED (7012-37-5) |   |
| LC50 fish 1                        | > 0.16 mg/l Pimephales promelas (fathead minnow) - 96 h |
| EC50 Daphnia 1                     | > 0.16 mg/l Daphnia magna (Water flea) - 48 h           |

|  | 3 - 1   |
|--|---|
| 2,2',5,5'-TETRACB UNLABELED (35693-99-3) |   |
| LC50 fish 1                              | > 0.16 mg/l Pimephales promelas (fathead minnow) - 96 h |
| EC50 Daphnia 1                           | > 0.16 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

| MO & NDL PCB MIXTURE (UNLABELED) IN ISOOCTANE   |   |
|---|---|
| Persistence and degradability                   | May cause long-term adverse effects in the environment. |
| 2,2',3,4,4',5,5'-HEPTACB UNLABELED (35065-29-3) |   |
| Persistence and degradability                   | May cause long-term adverse effects in the environment. |
| 12.3. Bioaccumulative potential                 |   |

| 12.3. Bioaccumulative potential               |      |  |
|---|------|--|
| MO & NDL PCB MIXTURE (UNLABELED) IN ISOOCTANE |      |  |
| Log Pow                                       | 4.6  |  |
| ISOOCTANE UNLABELED (540-84-1)                |      |  |
| Log Pow                                       | 4.6  |  |
| 2,3',4,4',5-PENTACB UNLABELED (31508-00-6)    |      |  |
| Log Pow                                       | 7.12 |  |

## **Mobility in soil**

No additional information available

### Results of PBT and vPvB assessment

No additional information available

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### 12.6. Other adverse effects

Other adverse effects : Very toxic to aquatic life with long lasting effects. Avoid release to the environment. Disposal

### must be done according to official regulations.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and Local

environmental control regulations.

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 / ADN

14.1. UN number

UN-No.(DOT) : 1262 DOT NA no. UN1262

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Octanes

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : II - Medium Danger

DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite

(31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110

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) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 242

### 14.3. Additional information

Emergency Response Guide (ERG) Number : 128

Other information : No supplementary information available.

### **Overland transport**

Packing group (ADR) : II

Class (ADR) : 3 - Flammable liquid

Hazard identification number (Kemler No.) : 33 Classification code (ADR) : F1

Hazard labels (ADR) : 3 - Flammable liquids



Orange plates

33 1262

Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) 1I

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: 3YE Excepted quantities (ADR) : E2

Transport by sea

**DOT Vessel Stowage Location** : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

MFAG-No

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

Civil Aeronautics Law : Flammable liquids

**Environmental hazards** 

Dangerous for the environment

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                          |  |  |
|---|--|--|
| MO & NDL PCB MIXTURE (UNLABELED) IN                   | SOOCTANE   |  |
| 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                   | Fire hazard Delayed (chronic) health hazard                                  |  |
| SARA Section 313 - Emission Reporting                 | Not subject to reporing requirements of the United States SARA Section 313.  |  |
| ISOOCTANE UNLABELED (540-84-1)                        |  |  |
| 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                   | Fire hazard Delayed (chronic) health hazard                                  |  |
| SARA Section 313 - Emission Reporting                 | Not subject to reporing requirements of the United States SARA Section 313.  |  |
| 2,3,3',4,4',5-HEXACB UNLABELED (38380-08-4)           |  |  |
| 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',3,4,4',5'-HEXACB UNLABELED (35065-28-2)          |  |  |
| SARA Section 302 Threshold Planning<br>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 UNLABELED (35065-27-1)          |  |  |
| 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. |  |

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| 2,2',4,5,5'-PENTACB UNLABELED (37680-73               | -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',3,4,4',5,5'-HEPTACB UNLABELED (3506              | 5-29-3)  |
| SARA Section 302 Threshold Planning<br>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. |
| 2,3,3',4,4',5,5'-HEPTACB UNLABELED (3963              | 5-31-9)  |
| SARA Section 302 Threshold Planning<br>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 UNLABELED (65510-44               | 3)   |
| SARA Section 302 Threshold Planning<br>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',5,5'-HEXACB UNLABELED (52663-72             | 2-6)   |
| SARA Section 302 Threshold Planning<br>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. |
| 2,3,3',4,4'-PENTACB UNLABELED (32598-14               | 4)   |
| SARA Section 302 Threshold Planning<br>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 UNLABELED (74472-37-               | 0)   |
| 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 UNLABELED (31508-00-              | -6)  |
| 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. |
| 2,4,4'-TRICB UNLABELED (7012-37-5)                    |  |
| SARA Section 302 Threshold Planning<br>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',5,5'-TETRACB UNLABELED (35693-99-3               |  |
| SARA Section 302 Threshold Planning<br>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. |
| 2,3,3',4,4',5'-HEXACB UNLABELED (69782-90             | 0-7)   |
| SARA Section 302 Threshold Planning<br>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. |

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### 15.2. International regulations

### MO & NDL PCB MIXTURE (UNLABELED) IN ISOOCTANE

Listed on the Canadian DSL (Domestic Substances List)

### **National regulations** 15.2.1.

No additional information available

### 15.3. US State regulations

| MO & NDL PCB MIXTURE   | (UNLABELED) IN ISOOCT  | ANE  |   |  |  |
|--|--|--|---|--|--|
| U.S California - Proposition 65 - Carcinogens List               |  | No   |   |  |  |
| U.S California - Proposition 65 - Developmental Toxicity         |  | No   |   |  |  |
| U.S California - Proposition 65 - Reproductive Toxicity - Female |  | No   |   |  |  |
| U.S California - Proposition 65 - Reproductive Toxicity - Male   |  | No   |   |  |  |
| State or local regulations                                       |  | U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List |   |  |  |
| ISOOCTANE UNLABELED  | (540-84-1)   |  |   |  |  |
| U.S California -<br>Proposition 65 -<br>Carcinogens List         | U.S California -<br>Proposition 65 -<br>Developmental Toxicity | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Female  | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Male | No significant risk level (NSRL)               |  |
| No   | No   | No   | No  |  |  |
| 2,3,3',4,4',5-HEXACB UNL   | ABELED (38380-08-4)  | •  |   | •  |  |
| U.S California -<br>Proposition 65 -<br>Carcinogens List         | U.S California -<br>Proposition 65 -<br>Developmental Toxicity | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Female  | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Male | No significant risk level (NSRL)               |  |
| Yes  | Yes  | Yes  | Yes   |  |  |
| 2,2',3,4,4',5'-HEXACB UNL  | ABELED (35065-28-2)  |  |   |  |  |
| U.S California -<br>Proposition 65 -<br>Carcinogens List         | U.S California -<br>Proposition 65 -<br>Developmental Toxicity | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Female  | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Male | No significant risk level (NSRL)               |  |
| Yes  | Yes  | Yes  | Yes   |  |  |
| 2,2',4,4',5,5'-HEXACB UNL  | ABELED (35065-27-1)  |  |   |  |  |
| U.S California -<br>Proposition 65 -<br>Carcinogens List         | U.S California -<br>Proposition 65 -<br>Developmental Toxicity | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Female  | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Male | No significant risk level (NSRL)               |  |
| Yes  | Yes  | Yes  | Yes   |  |  |
| 2,2',4,5,5'-PENTACB UNLA   | ABELED (37680-73-2)  | <u> </u>   | <u> </u>  | <u>,                                      </u> |  |
| U.S California -<br>Proposition 65 -<br>Carcinogens List         | U.S California -<br>Proposition 65 -<br>Developmental Toxicity | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Female  | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Male | No significant risk level (NSRL)               |  |
| Yes  | Yes  | Yes  | Yes   |  |  |
| 2,2',3,4,4',5,5'-HEPTACB U                                       | NLABELED (35065-29-3)  |  |   |  |  |
| U.S California -<br>Proposition 65 -<br>Carcinogens List         | U.S California -<br>Proposition 65 -<br>Developmental Toxicity | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Female  | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Male | No significant risk level (NSRL)               |  |
| Yes  | Yes  | Yes  | Yes   |  |  |
|  |  |  |   | 1  |  |

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| 5, 2012 / Rules and Regulations      |   |   |   |                           |
|--------------------------------------|---|---|---|---------------------------|
| 2,3,3',4,4',5,5'-HEPTACB U           |   | Tura aug                                    |   |                           |
| U.S California -<br>Proposition 65 - | U.S California -                        | U.S California -                            | U.S California -                            | No significant risk level |
|                                      | Proposition 65 -                        | Proposition 65 -                            | Proposition 65 -                            | (NSRL)                    |
| Carcinogens List                     | Developmental Toxicity                  | Reproductive Toxicity - Female              | Reproductive Toxicity - Male                |                           |
| Yes                                  | Yes                                     | No  | No  |                           |
| 2',3,4,4',5-PENTACB UNLA             | ABELED (65510-44-3)                     |   |   |                           |
| U.S California -                     | U.S California -                        | U.S California -                            | U.S California -                            | No significant risk level |
| Proposition 65 -                     | Proposition 65 -                        | Proposition 65 -                            | Proposition 65 -                            | (NSRL)                    |
| Carcinogens List                     | Developmental Toxicity                  | Reproductive Toxicity - Female              | Reproductive Toxicity - Male                |                           |
| Yes                                  | Yes                                     | Yes   | Yes   |                           |
| 2,3',4,4',5,5'-HEXACB UNL            | ABELED (52663-72-6)                     |   |   |                           |
| U.S California -                     | U.S California -                        | U.S California -                            | U.S California -                            | No significant risk level |
| Proposition 65 -                     | Proposition 65 -                        | Proposition 65 -                            | Proposition 65 -                            | (NSRL)                    |
| Carcinogens List                     | Developmental Toxicity                  | Reproductive Toxicity - Female              | Reproductive Toxicity - Male                |                           |
| Yes                                  | Yes                                     | Yes   | Yes   |                           |
| 2,3,3',4,4'-PENTACB UNLA             | ABELED (32598-14-4)                     |   |   |                           |
| U.S California -                     | U.S California -                        | U.S California -                            | U.S California -                            | No significant risk level |
| Proposition 65 -                     | Proposition 65 -                        | Proposition 65 -                            | Proposition 65 -                            | (NSRL)                    |
| Carcinogens List                     | Developmental Toxicity                  | Reproductive Toxicity -                     | Reproductive Toxicity -                     |                           |
|                                      |   | Female                                      | Male  |                           |
| Yes                                  | Yes                                     | Yes   | Yes   |                           |
| 2,3,4,4',5-PENTACB UNLA              |   |   |   |                           |
| U.S California -                     | U.S California -                        | U.S California -                            | U.S California -                            | No significant risk level |
| Proposition 65 -                     | Proposition 65 -                        | Proposition 65 -                            | Proposition 65 -                            | (NSRL)                    |
| Carcinogens List                     | Developmental Toxicity                  | Reproductive Toxicity - Female              | Reproductive Toxicity - Male                |                           |
| Yes                                  | Yes                                     | Yes   | Yes   |                           |
| 2,3',4,4',5-PENTACB UNLA             | ABELED (31508-00-6)                     |   |   |                           |
| U.S California -                     | U.S California -                        | U.S California -                            | U.S California -                            | No significant risk level |
| Proposition 65 -                     | Proposition 65 -                        | Proposition 65 -                            | Proposition 65 -                            | (NSRL)                    |
| Carcinogens List                     | Developmental Toxicity                  | Reproductive Toxicity - Female              | Reproductive Toxicity - Male                |                           |
| Yes                                  | Yes                                     | Yes   | Yes   |                           |
| 2,4,4'-TRICB UNLABELED               | (7012-37-5)                             |   |   |                           |
| U.S California -                     | U.S California -                        | U.S California -                            | U.S California -                            | No significant risk level |
| Proposition 65 -                     | Proposition 65 -                        | Proposition 65 -                            | Proposition 65 -                            | (NSRL)                    |
| Carcinogens List                     | Developmental Toxicity                  | Reproductive Toxicity -                     | Reproductive Toxicity -                     |                           |
|                                      |   | Female                                      | Male  |                           |
| Yes                                  | Yes                                     | Yes   | Yes   |                           |
| 2,2',5,5'-TETRACB UNLAB              |   | 11.0 0-1%                                   | 110 0-11                                    | L Nie alemate             |
| U.S California -                     | U.S California -                        | U.S California -                            | U.S California -                            | No significant risk level |
| Proposition 65 -<br>Carcinogens List | Proposition 65 - Developmental Toxicity | Proposition 65 -<br>Reproductive Toxicity - | Proposition 65 -<br>Reproductive Toxicity - | (NSRL)                    |
| Carolilogeria List                   | Developmental Toxicity                  | Female                                      | Male  |                           |
| Yes                                  | Yes                                     | Yes   | Yes   |                           |
| 2,3,3',4,4',5'-HEXACB UNL            | ABELED (69782-90-7)                     |   |   |                           |
| U.S California -                     | U.S California -                        | U.S California -                            | U.S California -                            | No significant risk level |
| Proposition 65 -                     | Proposition 65 -                        | Proposition 65 -                            | Proposition 65 -                            | (NSRL)                    |
|                                      | Developmental Toxicity                  | Reproductive Toxicity -                     | Reproductive Toxicity -                     |                           |
| Carcinogens List                     |   | Female                                      | Male  |                           |
| Yes                                  | Yes                                     | Female<br>Yes                               | Male<br>Yes                                 |                           |

### **ISOOCTANE UNLABELED (540-84-1)**

### 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

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### 2,3,3',4,4',5-HEXACB UNLABELED (38380-08-4)

### State or local regulations

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

### 2,2',3,4,4',5'-HEXACB UNLABELED (35065-28-2)

### State or local regulations

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

### 2,2',4,4',5,5'-HEXACB UNLABELED (35065-27-1)

### State or local regulations

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

### 2,2',4,5,5'-PENTACB UNLABELED (37680-73-2)

### State or local regulations

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

### 2,2',3,4,4',5,5'-HEPTACB UNLABELED (35065-29-3)

### State or local regulations

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

### 2,3,3',4,4',5,5'-HEPTACB UNLABELED (39635-31-9)

### State or local regulations

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

### 2',3,4,4',5-PENTACB UNLABELED (65510-44-3)

### State or local regulations

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

### 2,3',4,4',5,5'-HEXACB UNLABELED (52663-72-6)

### State or local regulations

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

### 2,3,3',4,4'-PENTACB UNLABELED (32598-14-4)

### State or local regulations

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

## 2,3,4,4',5-PENTACB UNLABELED (74472-37-0)

### State or local regulations

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

### 2,3',4,4',5-PENTACB UNLABELED (31508-00-6)

### State or local regulations

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

### 2,4,4'-TRICB UNLABELED (7012-37-5)

### State or local regulations

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

### 2,2',5,5'-TETRACB UNLABELED (35693-99-3)

### State or local regulations

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

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### 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

### 2,3,3',4,4',5'-HEXACB UNLABELED (69782-90-7)

### State or local regulations

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

### **SECTION 16: Other information**

Other information

This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

### Full text of R-, H- and EUH-phrases:

| 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 Dam. 1        | Serious eye damage/eye irritation Category 1  |  |  |
| Flam. Liq. 2      | Flammable liquids Category 2  |  |  |
| 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                                     |  |  |
| H225              | Highly flammable liquid and vapor   |  |  |
| H304              | May be fatal if swallowed and enters airways  |  |  |
| H315              | Causes skin irritation  |  |  |
| H318              | Causes serious eye damage   |  |  |
| 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  |  |  |
| R11               | Highly flammable  |  |  |
| R22               | Harmful if swallowed  |  |  |
| R33               | Danger of cumulative effects  |  |  |
| R36/37/38         | Irritating to eyes, respiratory system and skin   |  |  |
| R38               | Irritating to skin  |  |  |
| R50/53            | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |  |  |
| R65               | Harmful: may cause lung damage if swallowed   |  |  |
| R67               | Vapors may cause drowsiness and dizziness   |  |  |
| F                 | Highly flammable  |  |  |
| N                 | Dangerous for the environment   |  |  |
| Xi                | Irritant  |  |  |
| Xn                | Harmful   |  |  |

NFPA health hazard

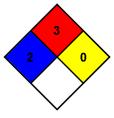
: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard

 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



### **HMIS III Rating**

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 3 Serious Hazard Physical : 0 Minimal Hazard

### CIL Mixture SDS

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

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