

# 2,2',3,3',5,6,6'-HEPTACB UNLABELED

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 27/04/2011 Revision date: 19/08/2021 Supersedes: 20/05/2015 Version: 5.0

PCB-179-C

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

1.1. **Product identifier** 

Product form : Substance

2,2',3,3',5,6,6'-HEPTACB UNLABELED Substance name

52663-64-6 (Unlabeled) CAS-No.

: PCB-179-C Product code Formula : C12H3Cl7

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

Relevant identified uses

: Professional use Main use category 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: 1-703-741-5970 (24 hours)

## **SECTION 2: Hazards identification**

# Classification of the substance or mixture

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

STOT RE 2 H373 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]

Xn; R48 N; R50/53

Full text of R-phrases: see section 16

#### **GHS-US** classification

STOT RE 2 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

Full text of H statements: see section 16

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

No additional information available

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#### 2.2. Label elements

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

Hazard pictograms (CLP)

Precautionary statements (CLP)





GHS08

S08 G

Signal word (CLP) : Warning

Hazard statements (CLP) : H373 - May cause damage to organs (kidneys, liver) through prolonged or repeated exposure

(if swallowed, inhalation, oral)

H410 - Very toxic to aquatic life with long lasting effects P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P273 - Avoid release to the environment.

P314 - Get medical advice/attention if you feel unwell.

P391 - Collect spillage.

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

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

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

Hazard pictograms (GHS-US)





GHS08

S08 GH

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H373 - May cause damage to organs (liver, kidneys) through prolonged or repeated exposure

(Dermal, Inhalation, oral)

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) : P260 - Do not breathe dust, fume, gas, mist, spray, vapors.

P273 - Avoid release to the environment. P314 - Get medical advice/attention if you feel unwell.

P391 - Collect spillage.

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

Name	Product identifier	%	Classification according to Directive 67/548/EEC
2,2',3,3',5,6,6'-HEPTACB UNLABELED	(CAS-No.) 52663-64-6 (Unlabeled)	100	Xn; R48/20 N; R50/53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,2',3,3',5,6,6'-HEPTACB UNLABELED	(CAS-No.) 52663-64-6 (Unlabeled)	100	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

Name	Product identifier	%	GHS-US classification
2,2',3,3',5,6,6'-HEPTACB UNLABELED (Main constituent)	(CAS-No.) 52663-64-6 (Unlabeled)	100	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

#### 3.2. Mixtures

Not applicable

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

#### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.

First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area. If not breathing give

artificial respiration. Get medical advice/attention.

First-aid measures after skin contact : Wash with plenty of soap and water. and soap. Get immediate medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get

medical advice/attention.

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

Symptoms/effects : May cause damage to organs (liver, kidneys) through prolonged or repeated exposure (in

contact with skin, if inhaled, if swallowed).

Symptoms/effects after inhalation : May be harmful if inhaled. May cause respiratory irritation.

Symptoms/effects after skin contact : May be harmful in contact with skin. May cause moderate irritation.

Symptoms/effects after eye contact : May cause eye irritation.

Symptoms/effects after ingestion : May be harmful if swallowed.

#### 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 : Suitable extinguishing agents: Carbon dioxide, extinguishing powder or water spray. Fight

larger fires with water spray or alcohol resistant foam.

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

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Wear a self-contained breathing

apparatus. Do not enter fire area without proper protective equipment, including respiratory

protection.

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

Wear recommended personal protective equipment.

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

# 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

Emergency procedures : Avoid breathing vapors, mist, gas. Avoid dust formation.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.

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

For containment : Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.

Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

### 6.4. Reference to other sections

For further information refer to section 13.

# SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation to minimize dust and/or vapor concentrations.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety practice.

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

Technical measures : Store in a well-ventilated place. Keep container tightly closed. Storage conditions : Store at room temperature away from light and moisture.

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

No additional information available

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

#### **Control parameters**

No additional information available

#### **Exposure controls**

Wash hands and other exposed areas with mild soap and water before eating, drinking or Appropriate engineering controls

smoking and when leaving work.

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









Materials for protective clothing Wear suitable protective clothing and gloves. Hand protection

Wear suitable protective clothing and gloves.

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

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

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

Environmental exposure controls : Avoid release to the environment.

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

#### Information on basic physical and chemical properties

Physical state : Solid Solid Appearance

Molecular mass 395.32 g/mol (Labeled) Colorless to Yellow Color No data available Odor No data available Odor threshold No data available рΗ Relative evaporation rate (butyl acetate=1) No data available : 122.4 - 149 °C Melting point No data available Freezing point

417 °C **Boiling point** Flash point

Auto-ignition temperature : No data available No data available Decomposition temperature No data available Flammability (solid, gas)

Vapor pressure

Relative vapor density at 20 °C No data available Relative density No data available Solubility No data available Log Pow No data available Log Kow No data available No data available Viscosity, kinematic No data available Viscosity, dynamic No data available Explosive properties No data available Oxidizing properties **Explosion limits** No data available

### Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

# **Chemical stability**

Stable if stored under recommended conditions.

#### Possibility of hazardous reactions

No additional information available

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#### 10.4. Conditions to avoid

Do not expose to excessive heat or ignition sources.

#### 10.5. Incompatible materials

Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

Carbon Oxides; HCl; Phenolics; Aldehydes; Polychlorinated dibenzofurans.

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

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitization Not classified Germ cell mutagenicity Not classified Carcinogenicity Not classified Reproductive toxicity : Not classified Specific target organ toxicity - single exposure Not classified

Specific target organ toxicity - repeated

exposure

: May cause damage to organs (kidneys, liver) through prolonged or repeated exposure (if

swallowed, inhalation, oral).

Aspiration hazard : Not classified

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.

IARC group : 2A

Symptoms/effects after inhalation : May be harmful if inhaled. May cause respiratory irritation.

Symptoms/effects after skin contact : May be harmful in contact with skin. May cause moderate irritation.

Symptoms/effects after eye contact : May cause eye irritation.

Symptoms/effects after ingestion : May be harmful if swallowed.

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

### 12.1. Toxicity

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

#### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

No additional information available

# 12.6. Other adverse effects

Other adverse effects

: Environmental precautions. 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.

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

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

#### 14.1. UN number

UN-No.(DOT) : 3432 DOT NA no. UN3432

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Polychlorinated biphenyls, solid

Class (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



Packing group (DOT)

: II - Medium Danger

DOT Special Provisions (49 CFR 172.102)

9 - Packaging for certain PCBs for disposal and storage is prescribed by EPA in 40 CFR 761.60 and 761.65.

81 - Polychlorinated biphenyl items, as defined in 40 CFR 761.3, for which specification packaging are impractical, may be packaged in non-specification packaging meeting the general packaging requirements of subparts A and B of part 173 of this subchapter. Alternatively, the item itself may be used as a packaging if it meets the general packaging requirements of subparts A and B of part 173 of this subchapter.

140 - This material is regulated only when it meets the defining criteria for a hazardous substance or a marine pollutant. In addition, the column 5 reference is modified to read III on those occasions when this material is offered for transportation or transported by highway or rail.

IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).

IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle.

IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner.

T3 - 2.65 178.274(d)(2) Normal..... 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 155
DOT Packaging Non Bulk (49 CFR 173.xxx) : 212
DOT Packaging Bulk (49 CFR 173.xxx) : 240

#### 14.3. Additional information

Emergency Response Guide (ERG) Number : 171

Other information : No supplementary information available.

Overland transport

Packing group (ADR) : II

Class (ADR) : 9 - Miscellaneous dangerous substances and articles

Hazard identification number (Kemler No.) : 90
Classification code (ADR) : M2

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Hazard labels (ADR)

: 9 - Miscellaneous dangerous substances and articles



Orange plates

Tunnel restriction code (ADR) : D/E Limited quantities (ADR) 1kg **EAC** : 2X Excepted quantities (ADR) : E2

Transport by sea

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

passenger vessel.

**DOT Vessel Stowage Other** : 95 - Stow "separated from" foodstuffs

MFAG-No : 171

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 100 kg

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 200 kg

CFR 175.75)

Civil Aeronautics Law : Miscellaneous dangerous substances & articles

**Environmental hazards** 

Dangerous for the environment

Marine pollutant



Other information : No supplementary information available.

14.5. Special precautions for user

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

2,2',3,3',5,6,6'-HEPTACB UNLABELED (52663-64-6 (Unlabeled))		
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313	

# 15.2. International regulations

#### **CANADA**

#### 2,2',3,3',5,6,6'-HEPTACB UNLABELED (52663-64-6 (Unlabeled))

Listed on the Canadian DSL (Domestic Substances List)

#### National regulations

No additional information available

#### 15.3. US State regulations

The state of the s	
2,2',3,3',5,6,6'-HEPTACB UNLABELED(52663-64-6 (Unlabeled))	
U.S California - Proposition 65 - Carcinogens List	Yes
U.S California - Proposition 65 - Developmental Toxicity	Yes
U.S California - Proposition 65 - Reproductive Toxicity - Female	Yes

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U.S California - Proposition 65 - Reproductive	Yes
Toxicity - Male	
State or local regulations	U.S New Jersey - Right to Know Hazardous Substance List
	U.S Pennsylvania - RTK (Right to Know) List

# **SECTION 16: Other information**

#### 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
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
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
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
N	Dangerous for the environment
Xn	Harmful

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause

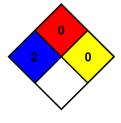
temporary incapacitation or residual injury.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as

concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even

under fire conditions.



### **Hazard Rating**

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

Flammability : 0 Minimal Hazard Physical : 0 Minimal Hazard

#### CIL Substance 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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