

2,2',3,3',4,4',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: 26/08/2014 Revision date: 27/03/2020 Supersedes: 20/05/2015 Version: 4.0 PCB-171-C

SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Substance : 2,2',3,3',4,4',6-HEPTACB UNLABELED Substance name EC Index-No. : 602-039-00-4 CAS-No. : 52663-71-5 Product code : PCB-171-C Formula : C12H3Cl7 Relevant identified uses of the substance or mixture and uses advised against 1.2. 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 Details of the supplier of the safety data sheet 1.3. 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 2.1. Classification according to Regulation (EC) No. 1272/2008 [CLP] STOT RE 2 H373 H400

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]

R48 N; R50/53 Full text of R-phrases: see section 16

GHS-US classification

STOT RE 2H373Aquatic Acute 1H400Aquatic Chronic 1H410Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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

2.2. Label elements Labeling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS08 GHS09 Signal word (CLP) : Warning : H373 - May cause damage to organs through prolonged or repeated exposure Hazard statements (CLP) H410 - Very toxic to aquatic life with long lasting effects Precautionary statements (CLP) 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) GHS0 Signal word (GHS-US) : Warning Hazard statements (GHS-US) : H373 - May cause damage to organs (liver, kidneys, Skin) through prolonged or repeated exposure (Dermal, Inhalation, oral) H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects P260 - Do not breathe vapors, spray, mist, gas, dust, fume. Precautionary statements (GHS-US) • 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',4,4',6-HEPTACB UNLABELED	(CAS-No.) 52663-71-5 (EC Index-No.) 602-039-00-4	100	R48 N; R50/53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,2',3,3',4,4',6-HEPTACB UNLABELED	(CAS-No.) 52663-71-5 (EC Index-No.) 602-039-00-4	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',4,4',6-HEPTACB UNLABELED (Main constituent)	(CAS-No.) 52663-71-5	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. 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 effect	
Symptoms/effects	: May cause damage to organs (Liver, kidneys, skin) through prolonged or repeated exposure.
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 Symptoms/effects after ingestion	 May cause eye irritation. May be harmful if swallowed.
	-
4.3. Indication of any immediate medical No additional information available	attention and special treatment needed
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
5.2. Special hazards arising from the sub	ostance 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 measure	
SECTION 6: Accidental release meas	
6.1. Personal precautions, protective equ	
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6.1.Personal precautions, protective equ6.1.1.For non-emergency personnel	 Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors
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 6.1. Personal precautions, protective equipment 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Prevent entry to sewers and public waters. Do not 6.3. Methods and material for containment For containment Methods for cleaning up 6.4. Reference to other sections For further information refer to section 13. SECTION 7: Handling and storage 7.1. Precautions for safe handling Additional hazards when processed Hygiene measures 	 Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapours can accumulate in low areas. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". tallow to enter drains or water courses. Avoid release to the environment. nt and cleaning up Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation. End to the the dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Avoid inhalation of vapors and mist. 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.

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7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/	personal protection
8.1. Control parameters	
No additional information available	
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.
Personal protective equipment	: Gloves. Protective goggles. Protective clothing. Self-contained breathing apparatus.
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.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.

: Avoid release to the environment.

Respiratory protection Environmental exposure controls

SECTION 9: Physical and chemical properties		
9.1. Information on ba	sic physical and chemical properties	
Physical state	: Solid	
Appearance	: Solid	

, pp carance	
Molecular mass	: 395.32 g/mol
Color	: Colorless to Yellow
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 117 °C
Freezing point	: No data available
Boiling point	: 417
Flash point	: >100 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
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
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available
9.2. Other information	

No additional information available

SECTION 10: Stability and reactivity 10.1. Reactivity

No additional information available

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10.2. Chemical stability	
Stable if stored under recommended conditions.	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
Do not expose to excessive heat or ignition sour	ces.
10.5. Incompatible materials	
Strong oxdizing agents.	
10.6. Hazardous decomposition products	
Decomposition liberates toxic fumes.	
SECTION 11: Toxicological informat	ion
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 through prolonged or repeated exposure.
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.

SECTI	ON 12: Ecological information	
12.1.	Toxicity	
Ecology	- general :	Very toxic to aquatic life with long lasting effects.
12.2.	Persistence and degradability	
No additi	ional information available	
12.3.	Bioaccumulative potential	
No additi	ional information available	
12.4.	Mobility in soil	
No additi	ional information available	
12.5.	Results of PBT and vPvB assessment	
No additi	ional information available	
12.6.	Other adverse effects	
Other ad	Iverse effects :	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
SECTI	ON 13: Disposal considerations	
13.1.	Waste treatment methods	
Regional	l legislation (waste) :	Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.

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Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed
Ecology - waste materials	professional waste disposal service to dispose of this material. : Dispose of as unused product.
	. Dispose of as unused product.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / AD	N
14.1. UN number	: 3432
UN-No.(DOT) DOT NA no.	UN3432
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Polychlorinated biphenyls, solid
Class (DOT) Hazard labels (DOT)	 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140 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, 31H21 and 31H22); 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 rigip 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 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
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) Class (ADR) Hazard identification number (Kemler No.)	 II 9 - Miscellaneous dangerous substances and articles 90
Classification code (ADR)	: M2

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Hazard labels (ADR)	: 9 - Miscellaneous dangerous substances and articles
	9
Orange plates	² 90
	3432
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	1kg
EAC	: 2X
Excepted quantities (ADR)	: E2
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.
DOT Vessel Stowage Other	: 95 - Stow "separated from" foodstuffs
MFAG-No	: 171
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 100 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 200 kg
Civil Aeronautics Law	: Miscellaneous dangerous substances & articles
14.4. Environmental hazards	
Dangerous for the environment	:
Marine pollutant	× ×
Other information	: No supplementary information available.
14.5. Special precautions for user	
14.6. Transport in bulk according to Anno	ex II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory information	n
15.1. US Federal regulations	
No additional information available	
15.2. International regulations	
CANADA	
No additional information available	

15.2.1. National regulations

No additional information available

15.3. US State regulations

2,2',3,3',4,4',6-HEPTACB UNLABELED(52663-71-5)	
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 Toxicity - Male	Yes
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

: 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:

Other information

Hazardous to the aquatic environment - Acute Hazard Category 1
Hazardous to the aquatic environment - Chronic Hazard Category 1
Specific target organ toxicity (repeated exposure) Category 2
May cause damage to organs through prolonged or repeated exposure
Very toxic to aquatic life
Very toxic to aquatic life with long lasting effects
Danger of serious damage to health by prolonged exposure
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Dangerous for the environment

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