

3,3',4-TRICB UNLABELED

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: :

Revision date: 21/05/2015

Version: 3

PCB-35-C

CECTION 4. Identification of the out	
1.1. Product identification of the Su	bstance/mixture and of the company/undertaking
Product form	: Substance
Substance name	: 3,3',4-TRICB UNLABELED
EC index no	: 602-039-00-4
CAS No	: 37680-69-6 (Unlabeled)
Product code	: PCB-35-C
Formula	: C12H7Cl3
1.2. Relevant identified uses of the sub	ostance or mixture and uses advised against
1.2.1. Relevant identified uses	
No additional information available	
400 Ulass states to write t	
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	
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	
2.1. Classification of the substance or	mixture
Classification according to Regulation (EC)	No. 1272/2008 [CLP]
STOT RE 2 H373	
Aquestic Acuto 1 11400	

Aquatic Acute 1 H400 Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

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

Xn; R48/20/21/22 N; R50/53 R33 Full text of R-phrases: see section 16

Classification (GHS-US)

STOT RE 2 H373 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

Hazard pictograms (CLP)

Labeling according to Regulation (EC) No. 1

272/2008 [CLP]	¥
GHS08	GHS09

Signal word (CLP)	: Warning
Hazard statements (CLP)	: H373 - May cause damage to organs (liver) through prolonged or repeated exposure H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (CLP)	 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.
GHS-US labeling	
Hazard pictograms (GHS-US)	: GH508 GH509
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	 H373 - May cause damage to organs (liver) through prolonged or repeated exposure (Dermal, Inhalation, oral) H400 - Very toxic to aquatic life 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 and 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 in	gredients		
3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
3,3',4-TRICB UNLABELED (Main constituent)	(CAS No) 37680-69-6 (Unlabeled) (EC index no) 602-039-00-4	100	Xn; R48/20/21/22 N; R50/53 R33
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
3,3',4-TRICB UNLABELED (Main constituent)	(CAS No) 37680-69-6 (Unlabeled) (EC index no) 602-039-00-4	100	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

Name	Product identifier	%	Classification (GHS-US)
3,3',4-TRICB UNLABELED (Main constituent)	(CAS No) 37680-69-6 (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	: Move out of dangerous area. Consult a physician and show this safety data sheet.
First-aid measures after inhalation	: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
First-aid measures after skin contact	: Wash off with soap and plenty of water. Consult a physician.
First-aid measures after eye contact	: Flush eye with water for 15 minutes. Get medical attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mout with water. Consult a physician.
4.2. Most important symptoms and effect	
Symptoms/injuries after inhalation	: May be harmful if inhaled. Causes respiratory tract irritation.
Symptoms/injuries after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries 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	: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
5.2. Special hazards arising from the sul	ostance or mixture
Reactivity	: Not available.
5.3. Advice for firefighters	
Protection during firefighting	: Wear self-contained breathing apparatus and protective clothing.
SECTION 6: Accidental release meas	
6.1. Personal precautions, protective eq	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: 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.
6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
	o. Do not let product enter drains. Discharge into the environment must be avoided.
6.3. Methods and material for containme	ent and cleaning up
For containment	: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Do not breathe dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Avoid inhalation of vapor or mist.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
7.2. Conditions for safe storage, including	
Technical measures	: Store at room temperature away from light and moisture.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/perso	onal protection
8.1. Control parameters	

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8.2.	Exposure controls	
Person	al protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
		M R R R
Eye pro	otection	: Wear safety glasses with side shields (or goggles) and a face shield.
Skin ar	d body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respira	tory protection	: When appropriate, use NIOSH/CEN approved respirator.
SECT	ION 9: Physical and chemica	properties
0 1	Information on basis physical on	abamiaal propartiaa

9.1. Information on basic physical and	chemical properties
Physical state	: Solid
Appearance	: Solid.
Molecular mass	: 257.55
Color	: Colorless to Yellow.
Odor	: aromatic.
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 273 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: < @ 38 °C
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
Explosive limits	: No data available

9.2. **Other information**

No additional information available

SECT	ION 10: Stability and reactivity		
10.1.	Reactivity		
Not ava	ilable.		
10.2.	Chemical stability		
Stable i	f 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 sources.			
10.5.	Incompatible materials		
Strong oxidizing agents.			
10.6.	Hazardous decomposition products		
Decom	position liberates toxic fumes.		

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SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
Skin corrosion/irritation	: Not classified No data available		
Serious eye damage/irritation	: Not classified No data available		
Respiratory or skin sensitization	: Not available No data available		
Germ cell mutagenicity Carcinogenicity	: Not available : Not available		
Reproductive toxicity Specific target organ toxicity (single exposure)	 Not available Not classified No data available 		
Specific target organ toxicity (repeated exposure)	: May cause damage to organs (liver) through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure.		
Aspiration hazard	: Not classified		
Potential Adverse human health effects and symptoms	: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.		
IARC group	: 2A		
Symptoms/injuries after inhalation	: May be harmful if inhaled. Causes respiratory tract irritation.		
Symptoms/injuries after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.		
Symptoms/injuries after eye contact	: Causes eye irritation.		
Symptoms/injuries after ingestion	: May be harmful if swallowed.		

SECTION 12: Ecological information 12.1. Toxicity No additional information available 12.2 Porsistonce and degradability

12.2. Persistence and degradability	
3,3',4-TRICB UNLABELED (37680-69-6 (Unlabe	led))
Persistence and degradability	Not available.
12.3. Bioaccumulative potential	
3,3',4-TRICB UNLABELED (37680-69-6 (Unlabe	iled))
Bioaccumulative potential	Not available.
12.4. Mobility in soil	
3,3',4-TRICB UNLABELED (37680-69-6 (Unlabe	led))
Ecology - soil	Not available.
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Other adverse effects	
Other adverse effects :	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal Very toxic to aquatic life with long lasting effects.
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.
SECTION 14: Transport information	
In accordance with ADR / RID / ADNR / IMDG / ICA	AO / IATA
14.1. UN number	
UN-No.(DOT) :	UN3432
14.2. UN proper shipping name	

14.2. UN proper shipping name		
DOT Proper Shipping Name	: Polychlorinated biphenyls, solid	
21/05/2015	EN (English US)	5/8

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according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Department of Transportation (DOT) Hazard : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140 Classes 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)	: 15	5
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 21	2
DOT Packaging Bulk (49 CFR 173.xxx)	: 24	0

14.3. **Additional information**

Other information

: No supplementary information available.

: 9 - Miscellaneous dangerous compounds

: 9 - Miscellaneous dangerous substances and articles

: 11

: 90

: M2

Overland transport

Packing group (ADR) Class (ADR) Hazard identification number (Kemler No.) Classification code (ADR) Danger labels (ADR)

orange plates	90
	3432
unnel restriction code	: D/E
imited quantities (ADR)	1kg
AC	: 2X
excepted quantities (ADR)	: E2

0

T Li E, E

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Transport by sea	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
MFAG-No	: 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)	: 220 L
Civil Aeronautics Law	: Miscellaneous dangerous substances & articles
14.4. 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

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	
3,3',4-TRICB UNLABELED(37680-69-6 (Unlabeled))	
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List WARNING! This product contains a chemical known by the state of California to cause cancer, birth defects or other reproductive harm.

SECTION 16: Other information

Other information

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

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

Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic	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
R33	Danger of cumulative effects

3,3',4-TRICB UNLABELED PCB-35-C Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	R48/20/21/22 R50/53 N Xn	 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment Dangerous for the environment Harmful
NFPA health hazard		: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard NFPA reactivity		 : 0 - Materials that will not burn. : 0 - Normally stable, even under fire exposure conditions,
		and are not reactive with water.
нміз	S III Rating	
Heal	th	: 2 Moderate Hazard - Temporary or minor injury may occur
Flam	mability	: 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

Physical

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

: 0 Minimal Hazard