

3,4,5-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-38-C

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

1.1. Product identifier

Product form : Substance

Substance name : 3,4,5-TRICB UNLABELED

EC index no : 602-039-00-4

CAS No : 53555-66-1 (Unlabeled)

Product code : PCB-38-C Formula : C12H7Cl3

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

1.2.1. Relevant identified uses

No additional information available

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 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

21/05/2015 EN (English US) 1/8

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

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

Hazard pictograms (CLP)





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 Both hands

GHS-US labeling

Hazard pictograms (GHS-US)





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 : 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.

Other hazards

No additional information available

Precautionary statements (GHS-US)

SECTION 3: Composition/information on ingredients

3.1. **Substances**

Name	Product identifier	%	Classification according to Directive 67/548/EEC
3,4,5-TRICB UNLABELED (Main constituent)	(CAS No) 53555-66-1 (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]
3,4,5-TRICB UNLABELED (Main constituent)	(CAS No) 53555-66-1 (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)
3,4,5-TRICB UNLABELED (Main constituent)	(CAS No) 53555-66-1 (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

21/05/2015 EN (English US) 2/8

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

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 : Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately.

Wash clothing separately before reuse.

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 mouth

with water. Consult a physician.

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

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 : May cause 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 substance 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 measures

6.1. Personal precautions, protective equipment 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

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

For containment : Pick up ar

: 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 any incompatibilities

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/personal protection

8.1. Control parameters

No additional information available

21/05/2015 EN (English US) 3/8

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

8.2. Exposure controls

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



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

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance

at the work place.

Respiratory protection : When appropriate, use NIOSH/CEN approved respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Solid.
Molecular mass : 257.54

Color : Colorless to Yellow. Odor No data available. No data available Odor threshold : No data available рΗ Relative evaporation rate (butyl acetate=1) : No data available Melting point 65.5 - 66 °C Freezing point : No data available Boiling point : No data available No data available Flash point 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

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

SECTION 10: Stability and reactivity

10.1. Reactivity

Not available.

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 sources.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Decomposition liberates toxic fumes.

21/05/2015 EN (English US) 4/8

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

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Not classified

No data available

: Not classified Serious eye damage/irritation

No data available

Respiratory or skin sensitization Not available

No data available

Germ cell mutagenicity : Not available Carcinogenicity : Not available Reproductive toxicity : Not available Specific target organ toxicity (single exposure) : 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

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 : May cause eye irritation.

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

SECTION 12: Ecological information

Toxicity

No additional information available

12.2. Persistence and degradability

3,4,5-TRICB UNLA	BELED (53555-66-1	(Unlabeled))
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Not available. Persistence and degradability

Bioaccumulative potential

3,4,5-TRICB UNLABELED (53555-66-1 (Unlabeled))

Not available. Bioaccumulative potential

12.4. Mobility in soil

3,4,5-TRICB UNLABELED (53555-66-1 (Unlabeled))

Not available. Ecology - soil

Results of PBT and vPvB assessment

No additional information available

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

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 / ICAO / IATA

UN number 14.1.

: UN3432 UN-No.(DOT)

UN proper shipping name

DOT Proper Shipping Name : Polychlorinated biphenyls, solid

21/05/2015 EN (English US) 5/8

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

Department of Transportation (DOT) Hazard

: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Classes

: 9 - Class 9 (Miscellaneous dangerous materials)



Packing group (DOT)

Hazard labels (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

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

Additional information

Other information : No supplementary information available.

Overland transport

Packing group (ADR) : 11

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

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

Danger labels (ADR) 9 - Miscellaneous dangerous compounds



Orange plates

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

21/05/2015 EN (English US) 6/8

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

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 : 100 kg

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

Civil Aeronautics Law : Miscellaneous dangerous substances & articles

14.4. Environmental hazards

Dangerous for the environment

¥2

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

3,4,5-TRICB UNLABELED(53555-66-1 (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::

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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
R33	Danger of cumulative effects

21/05/2015 EN (English US) 7/8

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	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed
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 - Intense or continued exposure could cause temporary

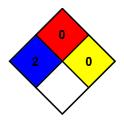
incapacitation or possible residual injury unless prompt

medical attention is given.

NFPA fire hazard : 0 - Materials that will not burn.

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

and are not reactive with water.



HMIS III Rating

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

Flammability : 0 Minimal Hazard
Physical : 0 Minimal Hazard

CIL Multi-Solvent 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

21/05/2015 EN (English US) 8/8