



# 3,4,5-Trichlorobiphenyl-2',3',4',5',6'-d₅

## Section 1. Chemical product and company identifications

Product code: D-3012 Chemical formula: C<sub>12</sub>H<sub>2</sub>D<sub>5</sub>Cl<sub>3</sub> CAS: 93952-22-8 CAS (unlabelled): 53555-66-1 Synonyms: 3,4,5-Trichlorodiphenyl, PCB # 38

#### Supplier / Manufacturer:

## C/D/N Isotopes Inc.

In case of emergency: **TOXYSCAN HOTLINE: 1-855-780-0599** 

## 88 Leacock Street Pointe-Claire (Québec) H9R 1H1 Phone: 514-697-6254 Toll-Free (Canada & USA): 1-800-565-4696 Fax: 514-697-6148 Website: www.cdnisotopes.com

# Section 2. Hazards identifications

#### Physical state: Solid

Warning: May cause cancer. May cause damage to organs through prolonged or repeated exposure. Routes of entry: Inhalation, ingestion, skin and eyes

#### GHS (Globally Harmonized System of Classification and Labelling of Chemicals):

GHS Classification:	<ul> <li>Carcinogenicity (Category 1A)</li> <li>Specific target organ toxicity - repeated exposure (Category 2)</li> </ul>
GHS Label elements:	- Pictograms:
	- Signal word: Danger
Hazards statement:	<ul> <li>H350 May cause cancer.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> </ul>
Precautionary statement:	<ul> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P318 IF exposed or concerned, get medical advice.</li> </ul>

## Section 3. Composition and information on ingredients

<u>Name</u>	<u>CAS</u>	Concentration %
3,4,5-Trichlorobiphenyl-2',3',4',5',6'-d₅	93952-22-8	> 98

## Section 4. First aid measures

**Eye contact:** Flush eyes with water as a precaution.

Skin contact: Wash off with soap and plenty of water. Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

# Section 5. Firefighting measures

Flammability of the product: Not flammable or combustible.
Lower explosion limit: No data available.
Upper explosion limit: No data available.
Auto-ignition temperature: No data available.
Flash point: No data available.
Products of combustion: Hazardous decomposition products formed under fire conditions: Carbon oxides, hydrogen chloride gas.
Firefighting media and instructions: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

## Section 6. Accidental release measures

**Personal precautions:** Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Avoid breathing dust. **Environmental precautions:** Do not let product enter drains. Discharge into the environment must be avoided. **Methods for cleaning up:** Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

## Section 7. Handling and storage

**Handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation. **Storage:** Store at room temperature. Adequate ventilation.

## Section 8. Exposure Controls, Personal Protections

Engineering controls: Use mechanical exhaust or laboratory fumehood to avoid exposure.

Eyes: Safety glasses with side-shields conforming to NIOSH (US) or EN 166 (EU).

**Respiratory:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US).

**Hands:** Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Skin/body:** Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Section 9. Physical and chemical properties (unlabelled)

Molecular weight: 257.54 g/mol Physical status: Solid Color: White to off-white Odour: No data available Density: No data available Melting point: 72 - 73 °C (162 - 164 °F) Boiling point: No data available Vapour pressure: No data available Vapour density: No data available Partition coefficient (octanol/water): No data available Water solubility: No data available

## Section 10. Stability and reactivity

Stability and reactivity: Stable under recommended storage conditions.
 Incompatibility: Strong oxidizing agents.
 Products of combustion: Hazardous decomposition products formed under fire conditions: Carbon oxides, hydrogen chloride gas.
 Reactivity conditions: No data available.

# Section 11. Toxicological information (unlabelled)

Toxicological data: 3,4,5-Trichlorobiphenyl

#### Information on ingredients:

Name	<u>CAS</u>	<u>LD<sub>50</sub></u>	<u>LC<sub>50</sub></u>
3,4,5-Trichlorobiphenyl	53555-66-1	No data available	No data available

**Potential acute effects** 

- Eyes: May cause eye irritation.
- Skin: May be harmful if absorbed through skin. May cause skin irritation.
- Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
- Ingestion: May be harmful if swallowed.

## **Potential chronic effects**

- **Carcinogenic effects:** This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification. IARC: 1 Group 1: Carcinogenic to humans (Polychlorinated biphenyls). ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- Mutagenic effects: No data available.
- Teratogenic effects: No data available.
- Medical conditions aggravated by overexposure: May cause damage to organs through prolonged or repeated exposure.

# Section 12. Ecological information

## **Ecological data:**

<u>Name</u>	<u>Results</u>	Species	Period
3,4,5-Trichlorobiphenyl	No data available		

**Effects on environment:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. **Mobility:** No data available.

Environmental precautions: No data available. Persistence and degradability: No data available. Bioaccumulative potential: No data available.

# Section 13. Disposal considerations

Waste disposal: Contact a licensed professional waste disposal service to dispose of this material.

## Section 14. Transportation information

## Classification DOT/IMDG/IATA label:

Shipping name: Polychlorinated biphenyls, solid UN number: UN3432 Class: 9 Packaging group: II

Additional information: None

# Section 15. Regulatory information

UNITED STATES: NFPA classification



Health: 1 Flammable: 0 Reactivity: 0 Special conditions: None

#### Legend: 4: Severe, 3: High, 2: Moderate, 1: Slightly, 0: Not hazardous

#### **U.S. Federal regulations:**

TSCA 8(b) inventory: 3,4,5-Trichlorobiphenyl SARA 302/304/311/312 extremely hazardous substances: Not Listed SARA 302/304 emergency planning and notification: Not Listed SARA 302/304/311/312 hazardous chemicals: Not Listed SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard: Not Listed CWA (Clean Water Act) 307: Not Listed CWA (Clean Water Act) 311: Not Listed CWA (Clean Air Act) 112 accidental release prevention: Not Listed CAA (Clean Air Act) 112 regulated flammable substances: Not Listed CAA (Clean Air Act) 112 regulated toxic substances: Not Listed

#### State regulations:

DEA List I Chemicals (Precursor Chemicals): Not Listed DEA List II Chemicals (Essential Chemicals): Not Listed Substances in Massachusetts: Not Listed Dangerous substances in New Jersey: Not Listed New York – Dangerous substances with acute effects: Not Listed Dangerous substances in Pennsylvania – right to know: Not Listed

#### WHMIS (Canada):



D2A - Very toxic material causing other toxic effects

# Section 16. Additional information

#### **References:**

- ANSI Z400.1, MSDS Standard, 2001.
- Manufacturer's Material Safety Data Sheet.
- 29CFR Part1910.1200 OSHA MSDS Requirements.
- 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. -Canada
- Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List".
- Federal act on the controlled products
- Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2002.
- Toxicological repertory, HSC.
- Material safety data sheet from the components.

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#### Elaborated by: Toxyscan Inc., 1-866-780-0599

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