

# Safety Data Sheet

**TOXYSCAN HOTLINE: 1-855-780-0599** 

## 2-Chlorotoluene-d7

## Section 1. Chemical product and company identifications

Product code: D-6408 Chemical formula: C7D7Cl

CAS: 84344-05-8

**CAS (unlabelled):** 95-49-8

**Synonyms:** *o*-Chlorotoluene, 1-Chloro-2-methylbenzene

**Supplier / Manufacturer:** In case of emergency:

C/D/N Isotopes Inc.

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: Liquid

**GHS Label elements:** 

Warning: Flammable liquid and vapour. Harmful if inhaled. Routes of entry: Inhalation, ingestion, skin and eyes

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

**GHS Classification:** - Flammable liquids (Category 3)

> - Acute toxicity, Inhalation (Category 4) - Reproductive toxicity (Category 2)



- Signal word: Danger

Hazards statement: - H226 Flammable liquid and vapour.

- Pictograms:

- H332 Harmful if inhaled.

- H361 Suspected of damaging fertility or the unborn child.

Precautionary statement: - P210 Keep away from heat/ hot surfaces/ sparks/ open flames/ ignition sources. No smoking.

- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

- P317 Get medical help.

## Section 3. Composition and information on ingredients

CAS **Concentration % Name** 

2-Chlorotoluene-d7 > 98 84344-05-8

## **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:** Flammable in the presence of a source of ignition when the temperature is above the flash point.

Keep away from heat/sparks/open flame/hot surface. No smoking.

**Lower explosion limit:** 1 Vol% **Upper explosion limit:** 12.6 Vol%

Auto-ignition temperature: 450 °C 842 °F)

Flash point: 47 °C (117 °F)

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 breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition.

**Environmental precautions:** Do not let product enter drains. Discharge into the environment must be avoided.

**Methods for cleaning up:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## Section 7. Handling and storage

**Handling:** Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Provide appropriate exhaust ventilation. Keep away from sources of ignition - No smoking.

Storage: Store at room temperature. Adequate ventilation. Protect from heat and ignition sources.

## **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: 126.58 g/mol

Physical status: Liquid

Color: Colorless

Odour: No data available

Density: 1.083 g/cm<sup>3</sup>

Melting point: -36 °C (-33 °F

**Melting point:** -36 °C (-33 °F) **Boiling point:** 157 - 159 °C (315 - 318 °F)

Vapour pressure: 3.5 hPa (2.6 mmHq) at 20 °C (68 °F)

**Vapour density:** 4.38 (Air = 1)

Partition coefficient (octanol/water): log Pow: 3.42

Water solubility: 0.37 g/L

## 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:** Heat, flames and sparks.

## Section 11. Toxicological information (unlabelled)

Toxicological data: 2-Chlorotoluene

**Information on ingredients:** 

Name CAS LD<sub>50</sub> LC<sub>50</sub>

2-Chlorotoluene 95-49-8 Oral - Rat - 3,900 mg/kg No data available

#### **Potential acute effects**

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

#### **Potential chronic effects**

- **Carcinogenic effects:** IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. 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: Genotoxicity in vitro In vitro mammalian cell gene mutation test lymphocyte with and without metabolic activation negative
- Teratogenic effects: Suspected of damaging the unborn child. Suspected human reproductive toxicant.
- Medical conditions aggravated by overexposure: No data available.

## **Section 12. Ecological information**

## **Ecological data:**

<u>Name</u>	<u>Results</u>	<u>Species</u>	<u>Period</u>
2-Chlorotoluene	7.7 mg/l LC50	Oryzias latipes	96 h
	0.4 mg/l EC50	Daphnia magna	24 h
	9.2 mg/l EC50	Selenastrum capricornutum	72 h

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: Chlorotoluenes

**UN number:** UN2238

Class: 3

Packaging group:  ${
m III}$ 

**Additional information: None** 

## Section 15. Regulatory information

**UNITED STATES: NFPA classification** 



Health: 2 Flammable: 2 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: 2-Chlorotoluene

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: Listed

CWA (Clean Water Act) 307: Not Listed CWA (Clean Water Act) 311: Not Listed

CAA (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: Listed
Dangerous substances in New Jersey: Listed

New York – Dangerous substances with acute effects: Not Listed Dangerous substances in Pennsylvania – right to know: Listed

#### WHMIS (Canada):



B3 - Combustible liquid



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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