

# Safety Data Sheet

## *p*-Xylene-d<sub>10</sub>

## Section 1. Chemical product and company identifications

Product code: D-0857 Chemical formula: C<sub>8</sub>D<sub>10</sub> CAS: 41051-88-1 CAS (unlabelled): 106-42-3 Synonyms: 1,4-Dimethylbenzene, *p*-Xylol

#### 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: Liquid

**Warning:** Flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. **Routes of entry:** Inhalation, ingestion, skin and eyes

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

GHS Classification: GHS Label elements:	<ul> <li>Flammable liquids (Category 3)</li> <li>Acute toxicity, Inhalation (Category 4)</li> <li>Skin irritation (Category 2)</li> <li>Eye irritation (Category 2A)</li> <li>Specific target organ toxicity - single exposure (Category 3), Respiratory system</li> <li>Aspiration hazard (Category 1)</li> <li>Pictograms:  </li> <li>Signal word: Danger</li> </ul>
Hazards statement:	<ul> <li>H226 Flammable liquid and vapour.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H332 Harmful if inhaled.</li> <li>H315 Causes skin irritation.</li> <li>H319 Causes serious eye irritation.</li> <li>H335 May cause respiratory irritation.</li> </ul>
Precautionary statement	<ul> <li>P210 Keep away from heat/hot surfaces/sparks/open flames/ignition sources. No smoking.</li> <li>P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</li> <li>P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P316 Get emergency medical help immediately.</li> </ul>

## Section 3. Composition and information on ingredients

Name	<u>CAS</u>	Concentration %
<i>p</i> -Xylene-d <sub>10</sub>	41051-88-1	> 98

## Section 4. First aid measures

**Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. **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: 1.1 Vol%
Upper explosion limit: 7 Vol%
Auto-ignition temperature: 529 °C (984 °F)
Flash point: 25 °C (77 °F)
Products of combustion: Hazardous decomposition products formed under fire conditions: Carbon oxides.
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: 106.17 g/mol Physical status: Liquid Color: Colorless Odour: Aromatic Density: 0.866 g/cm<sup>3</sup> Melting point: 13 °C (55 °F) Boiling point: 137 - 138 °C (279 - 280 °F) Vapour pressure: 12 hPa (9 mmHg) at 20 °C (68 °F) Vapour density: 3.7 (Air = 1) Partition coefficient (octanol/water): log Pow: 3.15 Water solubility: 0.16 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.
 Reactivity conditions: Heat, flames and sparks.

## Section 11. Toxicological information (unlabelled)

#### **Toxicological data:** *p*-Xylene

**Information on ingredients:** 

<u>Name</u>	<u>CAS</u>	<u>LD<sub>50</sub></u>	<u>LC<sub>50</sub></u>
<i>p</i> -Xylene	106-42-3	Oral - Rat - 3,910 mg/kg	Inhalation - Rat - 4 h - 4,550 ppm

#### Potential acute effects

- Eyes: Causes serious eye irritation.
- Skin: May be harmful in contact with skin. Causes skin irritation.
- Inhalation: Harmful if inhaled. May cause respiratory tract irritation.
- Ingestion: May be harmful if swallowed. Aspiration hazard if swallowed can enter lungs and cause damage.

#### **Potential chronic effects**

Ecological data:

- Carcinogenic effects: IARC: 3 Group 3: Not classifiable as to its carcinogenicity to humans (p-Xylene).
- Mutagenic effects: No data available.
- Teratogenic effects: No data available.
- Medical conditions aggravated by overexposure: No data available.

## Section 12. Ecological information

Period
96 h
48 h
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: Aerobic. Result: 98 % - Readily biodegradable.

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: Xylenes UN number: UN1307 Class: 3 Packaging group: III

Additional information: None

## Section 15. Regulatory information

**UNITED STATES: NFPA classification** 



Health: 2 Flammable: 3 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: *p*-Xylene 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):

B2 - Flammable liquid

D2B - 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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