

# Safety Data Sheet

# *m*-Xylene- $\alpha$ , $\alpha$ , $\alpha$ , $\alpha$ ', $\alpha$ ', $\alpha$ '-d<sub>6</sub>

# Section 1. Chemical product and company identifications

**Product code:** D-0127 **Chemical formula:** C<sub>8</sub>H<sub>4</sub>D<sub>6</sub>

CAS: 29636-65-5

**CAS (unlabelled):** 108-38-3

Synonyms: 1,3-Dimethylbenzene, m-Xylol

**Supplier / Manufacturer:** 

C/D/N Isotopes Inc.

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In case of emergency:

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

# **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:** - Flammable liquids (Category 3)

- Acute toxicity, Inhalation (Category 4)

Skin irritation (Category 2)Eye irritation (Category 2A)

- Specific target organ toxicity - single exposure (Category 3), Respiratory system

- Aspiration hazard (Category 1)

GHS Label elements: - Pictograms:







- Signal word: Danger

**Hazards statement:** - H226 Flammable liquid and vapour.

- H304 May be fatal if swallowed and enters airways.

- H332 Harmful if inhaled.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

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.
 P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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

- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. - P316 Get emergency medical help immediately.

# Section 3. Composition and information on ingredients

Name CAS Concentration %

*m*-Xylene-α,α,α,α',α',α'-d<sub>6</sub> 29636-65-5 > 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:** 465 °C (869 °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: 0.868 g/mL

Melting point: -48 °C (-54 °F) Boiling point: 138 - 139 °C (280 - 282 °F)

**Vapour pressure:** 8 hPa (6 mmHg) at 20 °C (68°F)

Vapour density: 3.66 (Air = 1)

Partition coefficient (octanol/water): log Pow: 3.2

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:** *m*-Xylene **Information on ingredients:** 

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

m-Xylene 108-38-3 Oral - Rat - 4,988 mg/kg No data available

Dermal - Rabbit - 12,239 mg/kg

#### 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**

- Carcinogenic effects: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC,
   ACGIH, NTP, or EPA classification. IARC: 3 Group 3: Not classifiable as to its carcinogenicity to humans (m-Xylene).
- Mutagenic effects: No data available.
- Teratogenic effects: No data available.
- 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>
<i>m</i> -Xylene	19 mg/l LC50	Oryzias latipes	96 h
	2.4 mg/l EC50	Daphnia magna	48 h
	8.9 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: 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: m-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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