

# Safety Data Sheet

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

## 4-Methoxy-d<sub>3</sub>-toluene-2,3,5,6-d<sub>4</sub>

## Section 1. Chemical product and company identifications

**Product code:** D-6989 **Chemical formula:** C<sub>8</sub>H<sub>3</sub>D<sub>7</sub>O

**CAS:** 1219798-94-3

**CAS (unlabelled):** 104-93-8

**Synonyms:** 4-Methylanisole, 1-Methoxy-4-methylbenzene

Supplier / Manufacturer: In case of emergency:

C/D/N Isotopes Inc.

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Pointe-Claire (Québec) H9R 1H1

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## **Section 2. Hazards identifications**

Physical state: Liquid

**GHS Label elements:** 

Warning: Flammable liquid and vapour. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.

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, Oral (Category 4)- Skin irritation (Category 2)- Eye irritation (Category 2A)

- Reproductive toxicity (Category 2)



- Signal word: Warning

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

- Pictograms:

H302 Harmful if swallowed.H315 Causes skin irritation.H319 Causes serious eye irritation.

- 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.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

- P302 + P350 IF ON SKIN: Wash with plenty of soap and water.

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

lenses, if present and easy to do. Continue rinsing.

- P317 Get medical help.

## Section 3. Composition and information on ingredients

Name CAS Concentration %

4-Methoxy-d<sub>3</sub>-toluene-2,3,5,6-d<sub>4</sub> 1219798-94-3 > 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: No data available. Upper explosion limit: No data available. Auto-ignition temperature: 490 °C (914 °F)

Flash point: 59 °C (138 °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: 122.16 g/mol

Physical status: Liquid Color: Colorless Odour: No data available Density: 0.969 g/cm<sup>3</sup> Melting point: -50 °C (-58 °F) Boiling point: 174 °C (345 °F)

Vapour pressure: 1.6 hPa (1.2 mmHg) at 25 °C (77 °F)

**Vapour density:** 4.2 (Air = 1)

Partition coefficient (octanol/water): log Pow: 2.66

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.

**Reactivity conditions:** Heat, flames and sparks.

## Section 11. Toxicological information (unlabelled)

Toxicological data: 4-Methoxytoluene

**Information on ingredients:** 

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

4-Methoxytoluene 104-93-8 Oral - Rat - 1,920 mg/kg No data available

Dermal - Rabbit - > 5,000 mg/kg

#### Potential acute effects

- Eyes: Causes serious eye irritation.

- Skin: May be harmful if absorbed through skin. Causes skin irritation.
- Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
- Ingestion: 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 assay S. typhimurium with and without metabolic activation negative. Genotoxicity in vivo Mouse male Gavage 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>
4-Methoxytoluene	68.2 mg/l LC50	Leuciscus idus	96 h
	27 mg/l EC50	Daphnia magna	48 h
	320 mg/l EC50	Desmodesmus subspicatus	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: 30 - 40 % - Not readily biodegradable. Method: OECD Test guideline 301F.

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:** Flammable liquid, n.o.s. (4-Methoxytoluene)

**UN number:** UN1993

Class: 3

Packaging group: 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: 4-Methoxytoluene

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

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:** 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):



**B3** Combustible Liquid



D2A - Very toxic material causing other toxic effects 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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