



# **2-Methylfuran-d**<sub>6</sub> (stabilized with BHT)

# Section 1. Chemical product and company identifications

Product code: D-7512 Chemical formula: C<sub>5</sub>D<sub>6</sub>O CAS: 1398065-93-4 CAS (unlabelled): 534-22-5 **Synonyms:** α-Methylfuran

#### Supplier / Manufacturer:

#### C/D/N Isotopes Inc.

In case of emergency:

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

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

### Section 2. Hazards identifications

Physical state: Liquid Warning: Highly flammable liquid and vapour. Fatal 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:	- Flammable liquids (Category 2) - Acute toxicity, Inhalation (Category 2) - Pictograms:
	- Signal word: Danger
Hazards statement:	- H225 Highly flammable liquid and vapour. - H330 Fatal if inhaled.
Precautionary statement	<ul> <li>P210 Keep away from heat/ hot surfaces/ sparks/ open flames/ ignition sources. No smoking.</li> <li>P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.</li> <li>P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P316 Get emergency medical help immediately.</li> </ul>

# Section 3. Composition and information on ingredients

<u>Name</u>	<u>CAS</u>	Concentration %
2-Methylfuran-d <sub>6</sub>	1398065-93-4	> 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: 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: No data available.
Flash point: -26 °C (-15 °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 REFRIGERATED. 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: 82.10 g/mol Physical status: Liquid Color: Colorless to light yellow Odour: Petroleum distillates Density: 0.91 g/cm<sup>3</sup> Melting point: -89 °C (-128 °F) Boiling point: 63 - 66 °C (145 - 151 °F) Vapour pressure: 189 hPa (142 mmHg) at 20 °C (68°F) Vapour density: 2.83 (Air = 1) Partition coefficient (octanol/water): log Pow: 1.85 Water solubility: 3 g/L

### Section 10. Stability and reactivity

Stability and reactivity: Stable under recommended storage conditions.
 Incompatibility: Strong oxidizing agents, strong acids, strong bases.
 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: 2-Methylfuran

#### Information on ingredients:

<u>Name</u>	<u>CAS</u>	<u>LD<sub>50</sub></u>
2-Methylfuran	534-22-5	No data available

LC50 Inhalation - Rat - 500 ppm - 4 h

#### **Potential acute effects**

- Eyes: May cause eye irritation.
- Skin: May be harmful if absorbed through skin. May cause skin irritation.
- Inhalation: Fatal 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: 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>	Period
2-Methylfuran	237 mg/l LC50	Leuciscus idus	48 h
	888 mg/l EC50	Daphnia magna	24 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: 2-Methylfuran UN number: UN2301 Class: 3 Packaging group: II

Additional information: None

# Section 15. Regulatory information

UNITED STATES: NFPA classification



Health: 4 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: 2-Methylfuran 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 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: 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

D1A - Very toxic material causing immediate and serious 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.

# Date of issue: October 23rd, 2020

Version: 3

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

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