



# (±)-2-Methylpiperazine-2,3,3,5,5,6,6-d<sub>7</sub>

### Section 1. Chemical product and company identifications

Product code: D-6609 Chemical formula: C<sub>5</sub>H<sub>5</sub>D<sub>7</sub>N<sub>2</sub> CAS: 1219802-98-8 CAS (unlabelled): 109-07-9 Synonyms:

#### 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: Solid Warning: Flammable solid. Causes severe skin burns and eye damage. Routes of entry: Inhalation, ingestion, skin and eyes

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

GHS Classification:	- Flammable solids (Category 2) - Skin corrosion (Category 1B) - Serious eye damage (Category 1)
GHS Label element	s: - Pictograms:
	- Signal word: Danger
Hazards statement	<ul> <li>H228 Flammable solid.</li> <li>H314 Causes severe skin burns and eye damage.</li> </ul>
Precautionary state	<ul> <li>ement: - P210 Keep away from heat/ hot surfaces/ sparks/ open flames/ ignition sources No smoking.</li> <li>- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>- P302 + P350 IF ON SKIN: Wash with plenty of soap and water.</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

<u>Name</u>	<u>CAS</u>	Concentration %
(±)-2-Methylpiperazine-2,3,3,5,5,6,6-d <sub>7</sub>	1219802-98-8	> 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: No data available.

Flash point: 65 °C (149 °F)

Flash point: 65 °C (149 °F)

**Products of combustion:** Hazardous decomposition products formed under fire conditions: Carbon oxides, nitrogen 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 dust formation. Ensure adequate ventilation. Avoid breathing dust. Remove all sources of ignition.

Environmental precautions: Do not let product enter drains.

Methods for cleaning up: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

## Section 7. Handling and storage

Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. 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. Protect from moisture.

## 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: 100.16 g/mol Physical status: Solid Color: White to yellow Odour: No data available Density: No data available Melting point: 61 - 63 °C (142 - 145 °F) Boiling point: 155 °C (311 °F) Vapour pressure: No data available Vapour density: No data available Partition coefficient (octanol/water): No data available Water solubility: Soluble

## 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, nitrogen oxides.
 Reactivity conditions: Heat, flames and sparks.

# Section 11. Toxicological information (unlabelled)

Toxicological data: 2-Methylpiperazine

### Information on ingredients:

<u>Name</u>	<u>CAS</u>	<u>LD<sub>50</sub></u>	<u>LC<sub>50</sub></u>
2-Methylpiperazine	109-07-9	Oral - Rat - 2,030 mg/kg	No data available

**Potential acute effects** 

- Eyes: Causes serious eye damage.
- Skin: May be harmful if absorbed through skin. Causes severe skin burns.
- Inhalation: May be 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: 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>	Species	Period
2-Methylpiperazine	2,240 mg/l LC50	Pimephales promelas	96 h
Effects on environment: No d Mobility: No data available. Environmental precautions: Persistence and degradabilit Bioaccumulative potential: N	No data available. <b>y:</b> 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 solid, corrosive, organic, n.o.s. (2-Methylpiperazine) UN number: 2925 Class: 4.1 (8) Packaging group: II

Additional information: None

### Section 15. Regulatory information

UNITED STATES: NFPA classification



Health: 3 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-Methylpiperazine 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):



B4 - Flammable solid

E - Corrosive material

## 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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