

# Safety Data Sheet

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

# (±)-Nicotine-d<sub>4</sub> (pyridine-d<sub>4</sub>)

### Section 1. Chemical product and company identifications

Product code: D-5098

Chemical formula: C<sub>10</sub>H<sub>10</sub>D<sub>4</sub>N<sub>2</sub>

CAS: 350818-69-8

CAS (unlabelled): 22083-74-5

**Synonyms:** (±)-3-(1-Methyl-2-pyrolidinyl)pyridine

Supplier / Manufacturer: In case of emergency:

C/D/N Isotopes Inc.

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

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

**GHS Classification:** - Acute toxicity, Oral (Category 2)

- Acute toxicity, Dermal (Category 2)

**GHS Label elements:** - Pictograms:

- Signal word: Danger

**Hazards statement:** - H300 + H310 Fatal if swallowed or in contact with skin.

Precautionary statement: - P262 Do not get in eyes, on skin, or on clothing.

- P264 Wash skin thoroughly after handling

- P270 Do not eat, drink, or smoke when using this product.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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

- P330 Rinse mouth.

- P361 Remove/Take off immediately all contaminated clothing.

- P363 Wash contaminated clothing before reuse.

- P405 Store locked up

- P501 Dispose of contents/ container to an approved waste disposal plant

### Section 3. Composition and information on ingredients

Name CAS Concentration %

 $(\pm)$ -Nicotine-d<sub>4</sub> 350818-69-8 > 98

#### **Section 4. First aid measures**

**Eve 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.

Indication of immediate medical attention and special treatment needed, if necessary: Treat symptomatically

Most important symptoms and effects, both acute and delayed: No data available.

#### 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. 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 breathing vapours, mist or gas. Ensure adequate ventilation. 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. Storage: STORE REFRIGERATED. Adequate ventilation. Protect from moisture. Protect from light.

# 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: 162.23 g/mol

Physical status: Liquid Color: Colorless to brown **Odour:** No data available Density: 1.015 g/cm<sup>3</sup> Melting point: -80 °C (-112 °F) Boiling point: 247 °C (477 °F)

Vapour pressure: 0.05 hPa (0.04 mmHg) at 25 °C (77 °F) **Vapour density:** 5.6 (Air = 1)

Partition coefficient (octanol/water): log Pow: 1.17

Water solubility: Soluble Lower explosion limit: 0.7 Vol% **Upper explosion limit:** 4 Vol%

Auto-ignition temperature: 240 °C (464 °F)

Flash point: 101 °C (214 °F)

# Section 10. Stability and reactivity

Stability and reactivity: Stable under recommended storage conditions. Avoid direct sunlight

**Incompatibility:** Strong oxidizing agents.

Products of combustion: Hazardous decomposition products formed under fire conditions: Carbon oxides, nitrogen oxides.

Reactivity conditions: Avoid moisture and strong heating

#### Section 11. Toxicological information (unlabelled)

Toxicological data: (±)-Nicotine Information on ingredients:

LC50

No data available (±)-Nicotine 22083-74-5 Oral - Rat - 50 mg/kg

Dermal - Rat - 140 mg/kg

#### **Potential acute effects**

- Eyes: No data available.
- **Skin:** Fatal if absorbed through skin. May cause skin irritation.
- Inhalation: No data available.
- Ingestion: Fatal 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: Prolonged or repeated exposure can cause: nausea, dizziness, headache, vomiting, diarrhoea, convulsions.

### **Section 12. Ecological information**

#### **Ecological data:**

<u>Name</u>	<u>Results</u>	<u>Species</u>	<u>Period</u>
(±)-Nicotine	4 mg/l LC50	Oncorhynchus mykiss	96 h
	0.24 mg/l EC50	Daphnia magna	48 h
	11 mg/l	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: 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: Nicotine UN number: UN1654 Class: 6.1 Packaging group: II

**Additional information: None** 

### **Section 15. Regulatory information**

UNITED STATES:
NFPA classification



Health: 4 Flammable: 1 Reactivity: 0

Special conditions: None

Legend: 4: Severe, 3: High, 2: Moderate, 1: Slightly, 0: Not hazardous

# **U.S. Federal regulations:**

California proposition 65 requirements: Listed

SARA section 313 (specific toxic chemical listings): Listed

**CERCLA reportable quantity:** Listed

Sections 302-304 reportable quantity: Listed

Community Right-to-Know (Sections 311 and 312): Listed

# **Section 16. Additional information**

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**Version:** 5

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

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This safety data sheet has been prepared in accordance with the OSHA (USA), WHMIS (Canada) / GHS classification rules in effect at the time of writing.