

# Safety Data Sheet

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

# L-Ornithine-2,3,3,4,4,5,5-d7 HCl

## Section 1. Chemical product and company identifications

Product code: D-7319

Chemical formula: C<sub>5</sub>H<sub>5</sub>D<sub>7</sub>N<sub>2</sub>O<sub>2</sub> · HCl

CAS: 2483831-57-6

CAS (unlabelled): 3184-13-2

**Synonyms:** (S)-2,5-Diaminopentanoic Acid HCl, H-L-Orn-OH HCl

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** 

Physical state: Solid

Routes of entry: Inhalation, ingestion, skin and eyes

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

**GHS Classification:** - Not a hazardous substance by GHS

**GHS Label elements:** - Pictograms: None

- Signal word: None

Hazards statement: - None

Precautionary statement: - None

Section 3. Composition and information on ingredients

Name CAS Concentration %

*L*-Ornithine-2,3,3,4,4,5,5-d<sub>7</sub> HCl 2483831-57-6 > 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: Not flammable or combustible.

Lower explosion limit: No data available **Upper explosion limit:** No data available Auto-ignition temperature: No data available

Flash point: No data available

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

hydrogen chloride gas.

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

**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.

**Storage:** Store at room temperature. Adequate ventilation.

# **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: 168.62 g/mol

Physical status: Solid Color: White to off-white **Odour:** No data available **Density:** No data available

Melting point: 239 - 241 °C (462 - 466 °F) **Boiling point:** No data available 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,

hydrogen chloride gas.

Reactivity conditions: No data available.

# **Section 11. Toxicological information**

Toxicological data: L-Ornithine HCl

**Information on ingredients:** 

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

L-Ornithine HCl 3184-13-2 Oral - Rat - 10,000 mg/kg No data available

#### **Potential acute effects**

- Eyes: May cause eye irritation.
- Skin: May be harmful if absorbed through skin. May cause skin irritation.
- 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:**

Name Results Species Period

L-Ornithine HCl No data available

Effects on environment: No data available.

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: Not dangerous goods

**UN number:** None **Class:** None

Packaging group: None

**Additional information: None** 

#### Section 15. Regulatory information

**UNITED STATES: NFPA classification** 



Health: 0 Flammable: 0 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 L-Ornithine HCl

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):



Not WHMIS controlled

# **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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