

# Safety Data Sheet

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

# 2,2,6,6-Tetramethylpiperidine-d<sub>18</sub>-1-oxyl

# Section 1. Chemical product and company identifications

**Product code:** D-7184 **Chemical formula:** C<sub>9</sub>D<sub>18</sub>NO

CAS: 205679-68-1

**CAS (unlabelled): 2564-83-2** 

Synonyms: TEMPO

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

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Website: www.cdnisotopes.com

**Section 2. Hazards identifications** 

Physical state: Solid

**Warning:** 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:** - Skin corrosion (Category 1B)

- Serious eye damage (Category 1)

**GHS Label elements:** - Pictograms:

- Signal word: Danger

**Hazards statement:** - H314 Causes severe skin burns and eye damage.

**Precautionary statement:** - P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

- 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. - P316 Get emergency medical help immediately.

Section 3. Composition and information on ingredients

Name CAS Concentration %

2,2,6,6-Tetramethylpiperidine- $d_{18}$ -1-oxyl 205679-68-1 > 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.

**Lower explosion limit:** No data available. **Upper explosion limit:** No data available.

Auto-ignition temperature: No data available.

Flash point: 67 °C (153 °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

**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 REFRIGERATED. Adequate ventilation. Protect from heat. 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: 156.25 g/mol

Physical status: Solid

Color: Red

Odour: No data available Density: No data available

Melting point: 36 - 38 °C (97 - 100 °F) Boiling point: No data available Vapour pressure: No data available Vapour density: No data available

Partition coefficient (octanol/water): log Pow: 1.85

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, nitrogen oxides.

Reactivity conditions: No data available.

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

**Toxicological data:** TEMPO **Information on ingredients:** 

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

TEMPO 2564-83-2 No data available No data available

#### **Potential acute effects**

- Eyes: Causes severe 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:**

Name Results Species Period

TEMPO 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: Corrosive solid, basic, organic, n.o.s. (2,2,6,6-Tetramethylpiperidine-1-oxyl)

**UN number:** UN3263

Class: 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: TEMPO

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

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):



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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