

# Safety Data Sheet

# (-)- $\alpha$ -Pinene-10,10,10-d<sub>3</sub>

# Section 1. Chemical product and company identifications

Product code: D-8025 Chemical formula: C<sub>10</sub>H<sub>13</sub>D<sub>3</sub>

CAS: 1903007-82-8

**CAS (unlabelled):** 7785-26-4

**Synonyms:** (1.5)-(-)- $\alpha$ -Pinene, (1.5,5.5)-2-Pinene, (1.5,5.5)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene

#### **Supplier / Manufacturer:**

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

# In case of emergency:

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

# **Section 2. Hazards identifications**

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

**GHS Classification:** - Flammable liquids (Category 3)

- Acute toxicity, Oral (Category 4) - Skin irritation (Category 2) - Eye irritation (Category 2A)

- Skin sensitisation (Category 1) - Aspiration hazard (Category 1)

**GHS Label elements:** 

- Pictograms: •





- Signal word: Danger

**Hazards statement:** - H226 Flammable liquid and vapour.

- H302 Harmful if swallowed

- H304 May be fatal if swallowed or enters airways.

- H315 Causes skin irritation.

- H317 May cause an allergic skin reaction. - H319 Causes serious eye irritation.

Precautionary statement: - P210 Keep away from heat/ hot surfaces/ sparks/ open flames/ ignition sources. No smoking.

- P233 Keep container tightly closed.

- P240 Ground/bond container and receiving equipment.

- P241 Use explosion-proof electrical/ ventilating/ lighting equipment.

- P242 Use non-sparking tools.

- P243 Take action to prevent static discharges.

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray

- P264 Wash hands 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 + P352 IF ON SKIN: wash with plenty of soap and water.

- P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.

- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P330 Rinse mouth.

- P331 Do NOT induce vomiting.

- P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

- P337 + P313 IF eye irritation persists: Get medical advice/attention.
- P362 +P364 Take off contaminated clothing and wash it before reuse
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- 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 %

 $(-)-\alpha$ -Pinene-10,10,10-d<sub>3</sub> 1903007-82-8 > 97

#### **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.

Indication of immediate medical attention and special treatment needed, if necessary: Caution if vomiting.

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. Keep away from heat/sparks/open flame/hot surface. No smoking.

**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. 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: 136.23 g/mol

Physical status: Liquid Color: Colorless

Odour: No data available Density: 0.855 g/cm<sup>3</sup> Melting point: -64°C (-83 °F)

**Boiling point:** 155 - 156 °C (311 - 313 °F) **Vapour pressure:** 4 hPa (3 mmHg) at 20 °C (68 °F)

Vapour density: 4.7 (Air = 1)

Partition coefficient (octanol/water): log Pow: 4.48

Water solubility: No data available Lower explosion limit: 0.8 Vol% Upper explosion limit: 6 Vol%

**Auto-ignition temperature:** 255 °C (491 °F)

Flash point: 32 °C (90 °F)

# 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.

**Reactivity conditions:** Heat, flames and sparks.

# Section 11. Toxicological information (unlabelled)

**Toxicological data:** (-)-α-Pinene

**Information on ingredients:** 

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

(-)- $\alpha$ -Pinene 7785-26-4 Oral - Rat - 3,700 mg/kg No data available

#### **Potential acute effects**

- Eyes: Causes serious eye irritation.
- Skin: Causes serious skin irritation.
- Inhalation: No data available.
- Ingestion: May be harmful if swallowed. Aspiration hazard if swallowed, can enter lungs and cause damage.

# **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>	<u>Period</u>
(-)-α-Pinene	0.303 mg/l LC50	Danio rerio	96 h
	0.475 mg/l EC50	Daphnia magna	48 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: Aerobic. Result: 68 % - Readily biodegradable. Method: OECD Test guideline 301D.

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: alpha-Pinene

UN number: UN2368

Class: 3

Packaging group: III

**Additional information: None** 

# **Section 15. Regulatory information**

**UNITED STATES: NFPA classification** 



Health: 2 Flammable: 3 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: Not listed

SARA section 313 (specific toxic chemical listings): Not listed

**CERCLA reportable quantity:** Not listed

Sections 302-304 reportable quantity: Not listed

Community Right-to-Know (Sections 311 and 312): Not Listed

# **Section 16. Additional information**

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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.