



# 3-(Dimethyl-d<sub>6</sub>-amino)-1-propylamine

### Section 1. Chemical product and company identifications

Product code: D-6815 Chemical formula: C₅H<sub>8</sub>D<sub>6</sub>N<sub>2</sub> CAS: 1219802-71-7 CAS (unlabelled): 109-55-7 Synonyms: N,N-Dimethyl-1,3-propanediamine, N,N-dimethyl-1,3-diaminopropane, N,N-Dimethyltrimethylenediamine

#### 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: Liquid

Warning: Flammable liquid and vapour. Harmful if swallowed. Toxic in contact with skin. 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:      | <ul> <li>Flammable liquids (Category 3)</li> <li>Acute toxicity, Oral (Category 4)</li> <li>Acute toxicity, Dermal (Category 3)</li> <li>Skin corrosion (Category 1B)</li> <li>Serious eye damage (Category 1)</li> <li>Skin sensitisation (Category 1)</li> <li>Specific target organ toxicity - single exposure (Category 3), Respiratory system</li> </ul>   |
|--------------------------|---|
| GHS Label elements:      | - Pictograms:   |
|                          | - Signal word: Danger   |
| Hazards statement:       | <ul> <li>H226 Flammable liquid and vapour.</li> <li>H302 Harmful if swallowed.</li> <li>H311 Toxic in contact with skin.</li> <li>H314 Causes severe skin burns and eye damage.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H335 May cause respiratory irritation.</li> </ul>   |
| Precautionary statement: | <ul> <li>P210 Keep away from heat/ hot surfaces/ sparks/ open flames/ ignition sources. No smoking.</li> <li>P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>P302 + P350 IF ON SKIN: Wash with plenty of soap and water.</li> <li>P305 + P351 + P338 + P310 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 % |
|--|--------------|-----------------|
| 3-(Dimethyl-d <sub>6</sub> -amino)-1-propylamine | 1219802-71-7 | > 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: 2.3 Vol%

Upper explosion limit: 12.35 Vol%

Auto-ignition temperature: 215 °C (419 °F) Flash point: 32 °C (90 °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 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 at room temperature. Adequate ventilation. Protect from heat and ignition sources.

### 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: 102.18 g/mol Physical status: Liquid Color: Colorless to pale yellow Odour: Amine-like Density: 0.812 g/cm<sup>3</sup> Melting point: -60 °C (-76 °F) Boiling point: 133 °C (271 °F) Vapour pressure: 7 hPa (5 mmHg) at 20 °C (68 °F) Vapour density: 3.53 - (Air = 1) 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, carbon dioxide.
 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: 3-(Dimethylamino)-1-propylamine

#### **Information on ingredients:**

| <u>Name</u>                     | <u>CAS</u> | <u>LD<sub>50</sub></u>                                  | <u>LC<sub>50</sub></u> |
|---------------------------------|------------|---|------------------------|
| 3-(Dimethylamino)-1-propylamine | 109-55-7   | Oral - Rat - 1,870 mg/kg<br>Dermal - Rabbit - 490 mg/kg | No data available      |

#### Potential acute effects

- Eyes: Causes severe eye damage.
- Skin: Toxic if absorbed through skin. Causes severe skin burns. May cause an allergic skin reaction.
- Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
- Ingestion: 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: Genotoxicity in vitro In vitro mammalian cell gene mutation test mouse lymphoma cells negative.
- Genotoxicity in vivo Mouse male and female negative.
- 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>           | Period |
|---------------------------------|----------------|--------------------------|--------|
| 3-(Dimethylamino)-1-propylamine | 122 mg/l LC50  | Leuciscus idus melanotus | 96 h   |
|                                 | 59.4 mg/l EC50 | Daphnia magna            | 48 h   |
|                                 | 56.2 mg/l EC50 | 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:** Biodegradability Result: 60 - 70 % - 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: Polyamines, liquid, corrosive, flammable, n.o.s. (3-Aminopropyldimethylamine) UN number: 2734 Class: 8 (3) Packaging group: II

#### Additional information: None

# Section 15. Regulatory information

UNITED STATES: NFPA classification



Health: 3 Flammable: 3 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: 3-(Dimethylamino)-1-propylamine 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 CWA (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: Listed Dangerous substances in New Jersey: Listed New York – Dangerous substances with acute effects: Listed Dangerous substances in Pennsylvania – right to know: Listed

#### WHMIS (Canada):



B3 - Combustible liquid



 $\mathsf{D1B}\xspace$  - Toxic material causing immediate and serious toxic effects



D2B - Toxic material causing other toxic effects

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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#### Version: 3

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

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