

# Safety Data Sheet

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

# N,N-Dimethylacetamide-d9

# Section 1. Chemical product and company identifications

**Product code:** D-0353 **Chemical formula:** C<sub>4</sub>D<sub>9</sub>NO

CAS: 16727-10-9

**CAS (unlabelled): 127-19-5** 

Synonyms: Acetic Acid Dimethylamide, DMA

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: Liquid

Warning: Combustible liquid. Harmful if inhaled. Causes serious eye irritation.

Routes of entry: Inhalation, ingestion, skin and eyes

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

**GHS Classification:** - Flammable liquids (Category 4)

- Acute toxicity, Inhalation (Category 4)

- Eye irritation (Category 2A)

- Reproductive toxicity (Category 1B)

**GHS Label elements:** - Pictograms:

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- Signal word: Danger

**Hazards statement:** - H227 Combustible liquid.

- H319 Causes serious eye irritation.

- H332 Harmful if inhaled.

- H360 May damage fertility or the unborn child.

Precautionary statement: - P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

- P317 Get medical help.

# Section 3. Composition and information on ingredients

Name CAS Concentration %

 $N,N-Dimethylacetamide-d_9$  16727-10-9 > 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: 1.8 Vol% Upper explosion limit: 11.5 Vol%

**Auto-ignition temperature:** 490 °C (914 °F)

Flash point: 70 °C (158 °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.

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. 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: 87.12 g/mol

Physical status: Liquid Color: Colorless Odour: Ammonia odor Density: 0.937 g/cm<sup>3</sup> Melting point: -20 °C (-4 °F)

**Boiling point:** 164 - 166 °C (327 - 331 °F)

Vapour pressure: 2.7 hPa (2 mmHg) at 25°C (77°F)

**Vapour density:** 3.01 (Air = 1)

Partition coefficient (octanol/water): log Pow: -0.77

Water solubility: Miscible

# 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: Heat, flames and sparks.

# Section 11. Toxicological information (unlabelled)

Toxicological data: N,N-Dimethylacetamide

**Information on ingredients:** 

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

N,N-Dimethylacetamide 127-19-5 Oral - Rat - 4,300 mg/kg Inhalation - Rat - 1 h - 2,475 ppm

Dermal - Rabbit - 2,240 mg/kg

#### Potential acute effects

- Eyes: Causes serious eye irritation.

- Skin: May be harmful if absorbed through skin. May cause skin irritation.
- Inhalation: Harmful if inhaled. May cause respiratory tract irritation.
- Ingestion: May be harmful if swallowed.

### **Potential chronic effects**

- Carcinogenic effects: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. 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.
- Mutagenic effects: No data available.
- Teratogenic effects: May cause congenital malformation in the fetus. Presumed human reproductive toxicant.
- 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>
N,N-Dimethylacetamide	> 500 mg/l LC50	Leuciscus idus	96 h
	> 500 mg/l EC50	Daphnia magna	48 h
	> 500 mg/l EC50	Desmodesmus subspicatus	72 h

Effects on environment: No data available.

Mobility: No data available.

Environmental precautions: No data available.

Persistence and degradability: Aerobic. Result: 77 - 83 % - Readily biodegradable. Method: OECD Test Guideline 302.

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: 2 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: N,N-Dimethylacetamide

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: Listed

Dangerous substances in New Jersey: Listed

New York – Dangerous substances with acute effects: Not Listed Dangerous substances in Pennsylvania – right to know: Listed

### WHMIS (Canada):



B3 - Combustible Liquid



D2A - Very toxic material causing other toxic effects D2B - Toxic material causing other toxic effects

### **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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