

# Safety Data Sheet

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

## 2,2'-Dipyridyl-d<sub>8</sub>

## Section 1. Chemical product and company identifications

**Product code:** D-1467 **Chemical formula:** C<sub>10</sub>D<sub>8</sub>N<sub>2</sub>

CAS: 32190-42-4

**CAS (unlabelled):** 366-18-7

**Synonyms:** 2,2'-Bipyridine,  $\alpha$ , $\alpha$ '-Dipyridyl

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

**Warning:** Toxic if swallowed. Harmful in contact with skin. **Routes of entry:** Inhalation, ingestion, skin and eyes

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

GHS Classification: - Acute toxicity, Oral (Category 3)

- Acute toxicity, Dermal (Category 4)

GHS Label elements: - Pictograms:

- Signal word: Danger

**Hazards statement:** - H301 Toxic if swallowed.

- H312 Harmful in contact with skin.

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

- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

- P302 + P350 IF ON SKIN: Wash with plenty of soap and water.

- P316 Get emergency medical help immediately.

Section 3. Composition and information on ingredients

Name CAS Concentration %

2,2'-Dipyridyl-d<sub>8</sub> 32190-42-4 > 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:** Combustible at high temperature.

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

Flash point: 121 °C (250 °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 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: 156.18 g/mol

Physical status: Solid
Color: White to pale yellow
Odour: No data available
Density: No data available

Melting point: 70 - 72 °C (158 - 162 °F) Boiling point: 272 - 273 °C (522 - 523 °F) Vapour pressure: No data available Vapour density: No data available

Partition coefficient (octanol/water): log Pow: 1.5

Water solubility: 5.9 g/L

## 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:** 2,2'-Dipyridyl **Information on ingredients:** 

Name CAS LD<sub>50</sub>

2,2'-Dipyridyl 366-18-7 Oral - Rat - 100 mg/kg No data available

#### **Potential acute effects**

- **Eyes:** May cause eye irritation.
- **Skin:** Harmful if absorbed through skin. May cause skin irritation.
- Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
- Ingestion: Toxic 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.

LC<sub>50</sub>

- 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

2,2'-Dipyridyl 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: Toxic solid, organic, n.o.s. (2,2'-Dipyridyl)

**UN number:** UN2811

**Class:** 6.1

Packaging group: III

**Additional information: None** 

## Section 15. Regulatory information

**UNITED STATES: NFPA classification** 



Health: 3 Flammable: 1 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: 2,2'-Dipyridyl

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):



D1B - Toxic material causing immediate and serious 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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