

# Safety Data Sheet

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

## Triethanolamine-d<sub>15</sub>

## Section 1. Chemical product and company identifications

**Product code:** D-5459 **Chemical formula:** C<sub>6</sub>D<sub>15</sub>NO<sub>3</sub>

CAS: 73205-32-0

**CAS (unlabelled):** 102-71-6

**Synonyms:** 2,2',2"-Nitrilotriethanol, Tris(2-hydroxyethyl)amine

Supplier / Manufacturer: In case of emergency:

C/D/N Isotopes Inc.

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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:** Causes skin irritation. Causes serious eye irritation. **Routes of entry:** Inhalation, ingestion, skin and eyes

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

**GHS Classification:** - Skin irritation (Category 2)

- Eye irritation (Category 2A)

- Specific target organ toxicity - single exposure (Category 3), Respiratory system

GHS Label elements:

- Pictograms: <

- Signal word: Warning

**Hazards statement:** - H315 Causes skin irritation.

H319 Causes serious eye irritation.H335 May cause respiratory irritation.

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

- 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.

- P317 Get medical help.

#### Section 3. Composition and information on ingredients

Name CAS Concentration %

Triethanolamine- $d_{15}$  73205-32-0 > 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.

#### Section 5. Firefighting measures

Flammability of the product: Combustible at high temperature.

Lower explosion limit: 1.3 Vol% **Upper explosion limit:** 8.5 Vol%

Auto-ignition temperature: 325 °C (617 °F)

Flash point: 179 °C (354 °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. **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.

**Storage:** Store at room temperature. Adequate ventilation. 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: 149.19 g/mol

Physical status: Liquid Color: Colorless **Odour:** No data available

Density: 1.124 a/mL Melting point: 18 - 21 °C (64 - 70 °F) Boiling point: 360 °C (680 °F) Vapour pressure: No data available

Vapour density: 5.14 (Air = 1)

Partition coefficient (octanol/water): log Pow: -1

Water solubility: Very soluble

## 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: Triethanolamine

**Information on ingredients:** 

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

Triethanolamine 102-71-6 Oral - Rat - 5,530 mg/kg No data available

#### **Potential acute effects**

- Eyes: Causes serious eye irritation.
- Skin: May be harmful if absorbed through skin. Causes skin irritation.
- Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
- Ingestion: May be harmful if swallowed.

#### **Potential chronic effects**

- Carcinogenic effects: IARC: 3 Group 3: Not classifiable as to its carcinogenicity to humans (2,2',2"-Nitrilotriethanol). 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>
Triethanolamine	450 - 1,000 mg/l LC50	Lepomis macrochirus	96 h
	1,386 mg/l EC50	Daphnia magna	48 h

Effects on environment: No data available.

**Mobility:** No data available.

**Environmental precautions:** No data available.

Persistence and degradability: Result: 96 % - Readily biodegradable.

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: 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: Triethanolamine

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



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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