



# (±)-1,2-Propanediol-(OD)<sub>2</sub>

### Section 1. Chemical product and company identifications

Product code: D-0386 Chemical formula:  $C_3H_6D_2O_2$ CAS: 58161-11-8 CAS (unlabelled): 57-55-6 Synonyms: 1,2-Dihydroxypropane, Propylene Glycol

#### 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 Fax: 514-697-6148 Website: www.cdnisotopes.com In case of emergency: TOXYSCAN HOTLINE: 1-855-780-0599

# Section 2. Hazards identifications

Physical state: Liquid Routes of entry: Inhalation, ingestion, skin and eyes

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

GHS Classification:	- Not a hazardous substance by GHS
GHS Label elements:	- Pictograms: None - Signal word: None
Hazards statement:	- None

Precautionary statement: - None

### Section 3. Composition and information on ingredients

<u>Name</u>	CAS	Concentration %
(±)-1,2-Propanediol-(OD) <sub>2</sub>	58161-11-8	> 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: Flammable in the presence of a source of ignition when the temperature is above the flash point. Lower explosion limit: 2.6 Vol% Upper explosion limit: 12.5 Vol% Auto-ignition temperature: 400 °C (752 °F) Flash point: 107 °C (225 °F) 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.
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: 76.09 g/mol Physical status: Liquid Color: Colorless Odour: No data available Density: 1.036 g/cm<sup>3</sup> Melting point: -60 °C (-76 °F) Boiling point: 187 °C (369 °F) Vapour pressure: 0.13 hPa (0.1 mmHg) at 20 °C (68 °F) Vapour density: 2.63 - (Air = 1) Partition coefficient (octanol/water): log Pow: -0.92 Water solubility: 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.
Reactivity conditions: No data available.

# Section 11. Toxicological information (unlabelled)

Toxicological data: 1,2-Propanediol

#### Information on ingredients:

<u>Name</u>	CAS	<u>LD<sub>50</sub></u>
1,2-Propanediol		Oral - Rat - 20,000 mg/kg
		Dermal - Rabbit - 20,800 mg/kg

<u>LC50</u>

No data available

#### **Potential acute effects**

- Eyes: May cause eye irritation.
- Skin: May be harmful if absorbed through skin. May cause 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: 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>	Period
1,2-Propanediol	51,600 mg/l LC50 > 1,000 mg/l EC50	Oncorhynchus mykiss Daphnia magna	96 h 48 h
Effects on environment: 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: Not dangerous goods UN number: None Class: None Packaging group: None

Additional information: None

# Section 15. Regulatory information

UNITED STATES: NFPA classification



Health: 0 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: 1,2-Propanediol 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: Listed New York – Dangerous substances with acute effects: Not Listed Dangerous substances in Pennsylvania – right to know: Listed

#### WHMIS (Canada):

Not WHMIS controlled

# 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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