

Safety Data Sheet

In case of emergency:

TOXYSCAN HOTLINE: 1-855-780-0599

1,3-Dichloro-*iso*-propyl-d₅ Alcohol

Section 1. Chemical product and company identifications

Product code: D-5033

Chemical formula: C₃HD₅Cl₂O

CAS: 1173020-20-6 **CAS (unlabelled):** 96-23-1

Synonyms: 1,3-Dichloro-2-propanol, Propylene Dichlorohydrin

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

Section 2. Hazards identifications

Physical state: Liquid

Warning: Combustible liquid. 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: - Flammable liquid (category 4)

> - Acute toxicity, Oral (Category 3) - Acute toxicity, Dermal (Category 4) - Carcinogenicity (Category 1B)

GHS Label elements: - Pictograms: •



- Signal word: Danger

Hazards statement: - H227 Combustible liquid.

- H301 Toxic if swallowed.

- H312 Harmful in contact with skin.

- H350 May cause cancer.

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

CAS **Concentration % Name**

> 98 1,3-Dichloro-iso-propyl-d5 Alcohol 1173020-20-6

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. Keep away from heat/sparks/open flame/hot surface. No smoking.

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

Flash point: 74 °C (165 °F)

Products of combustion: Hazardous decomposition products formed under fire conditions: Carbon oxides, hydrogen chloride gas.

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.

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: 128.99 g/mol

Physical status: Liquid

Color: Colorless

Odour: No data available
Density: 1.351 g/mL
Melting point: -4 °C (25 °F)
Boiling point: 174 °C (345 °F)
Vapour pressure: No data available
Vapour density: 4.45 (Air = 1)

Partition coefficient (octanol/water): No data available

Water solubility: 110 g/L

Section 10. Stability and reactivity

Stability and reactivity: Stable under recommended storage conditions.

Incompatibility: Strong reducing agents.

Products of combustion: Hazardous decomposition products formed under fire conditions: Carbon oxides, hydrogen chloride gas.

Reactivity conditions: Heat, flames and sparks.

Section 11. Toxicological information (unlabelled)

Toxicological data: 1,3-Dichloro-2-propanol

Information on ingredients:

Name CAS LD₅₀ LC₅₀

1,3-Dichloro-2-propanol 96-23-1 Oral - Rat - 110 mg/kg No data available

Dermal - Rabbit - 1,081 mg/kg

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: Carcinogenicity Rat Oral. Tumorigenic: Neoplastic by RTECS criteria. Liver: Tumors. Kidney, Ureter, Bladder: Tumors. Possible human carcinogen. IARC: 2B Group 2B: Possibly carcinogenic to humans (1,3-Dichloro-2-propanol). 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
1,3-Dichloro-2-propanol	680 mg/l LC50	Carassius auratus	24 h
	983 mg/l EC50	Daphnia magna	24 h

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: 1,3-Dichloropropanol-2

UN number: UN2750

Class: 6.1

Packaging group: II

Additional information: None

Section 15. Regulatory information

UNITED STATES: NFPA classification



Health: 3 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: 1,3-Dichloro-2-propanol

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: 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



D1B - Toxic material causing immediate and serious toxic effects



D2A - Very 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.

Date of issue: June 8th, 2020

Version: 3

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

Notice to reader: To the best of our knowledge, the information contained herein is accurate. However, C/D/N Isotopes Inc., Toxyscan Inc., or any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.