

# Safety Data Sheet

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

## *n*-Propyl Alcohol-OD

## Section 1. Chemical product and company identifications

**Product code:** D-0081 **Chemical formula:** C<sub>3</sub>H<sub>7</sub>DO

CAS: 4712-36-1

**CAS (unlabelled):** 71-23-8 **Synonyms:** 1-Propanol, *n*-Propanol

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: Highly flammable liquid and vapour. Harmful if swallowed. Causes serious eye damage.

Routes of entry: Inhalation, ingestion, skin and eyes

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

**GHS Classification:** - Flammable liquids (Category 2)

Acute toxicity, Oral (Category 4)Serious eye damage (Category 1)

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

**GHS Label elements:** - Pictograms:



- Signal word: Danger

**Hazards statement:** - H225 Highly flammable liquid and vapour.

- H302 Harmful if swallowed.- H318 Causes serious eye damage.- H336 May cause drowsiness or dizziness.

Precautionary statement: - P210 Keep away from heat/ hot surfaces/ sparks/ open flames/ ignition sources. No smoking.

- 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.

- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

- 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*-Propyl Alcohol-OD 4712-36-1 > 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: 2.1 Vol% Upper explosion limit: 13.7 Vol%

Auto-ignition temperature: 405 °C (761 °F)

Flash point: 22 °C (72 °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. 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: 60.10 g/mol

Physical status: Liquid Color: Colorless Odour: Alcohol-like Density: 0.804 g/cm<sup>3</sup>

Melting point: -127 °C (-197 °F) Boiling point: 97 °C (207 °F)

Vapour pressure: 19.3 hPa (14.5 mmHg) at 20 °C (68 °F)

**Vapour density:**  $2.07 ext{ (Air = 1)}$ 

Partition coefficient (octanol/water): log Pow: 0.25

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: Heat, flames and sparks.

## Section 11. Toxicological information (unlabelled)

**Toxicological data:** *n*-Propanol **Information on ingredients:** 

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

*n*-Propanol 71-23-8 Oral - Rat - 1,870 mg/kg Inhalation - Rat - 4 h - 4,000 ppm

Dermal - Rabbit - 5,040 mg/kg

#### Potential acute effects

- Eyes: Causes serious eye damage.

- Skin: May be harmful if absorbed through skin. May cause skin irritation.

- Inhalation: May be harmful if inhaled. May cause respiratory tract irritation. Vapours may cause drowsiness and dizziness.
- Ingestion: 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>	<u>Period</u>
<i>n</i> -Propanol	4,555 mg/l LC50	Pimephales promelas	96 h
	3,642 mg/l EC50	Daphnia magna	48 h
	9.170 mg/l EC50	Pseudokirchneriella subcapitata	48 h

Effects on environment: No data available.

Mobility: No data available.

**Environmental precautions:** No data available.

Persistence and degradability: Aerobic. Result: 75 % - Readily biodegradable.

Bioaccumulative potential: The product is miscible in water and readily biodegradable in both water and soil. Accumulation is

not expected.

## 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:** *n*-Propanol **UN number:** UN1274

Class: 3

Packaging group: II

Additional information: None

## Section 15. Regulatory information

**UNITED STATES: NFPA classification** 



Health: 2 Flammable: 3 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-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: 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):



B2 - Flammable liquid



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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