

# Safety Data Sheet

## Propene-d<sub>6</sub> (gas)

## Section 1. Chemical product and company identifications

Product code: D-0033 **Chemical formula:** C<sub>3</sub>D<sub>6</sub> CAS: 1517-52-8 CAS (unlabelled): 115-07-1 Synonyms: Propylene

#### Supplier / Manufacturer:

#### C/D/N Isotopes Inc.

In case of emergency: **TOXYSCAN HOTLINE: 1-855-780-0599** 

#### 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: Gas

Warning: Extremely flammable gas. Contains gas under pressure; may explode if heated. Routes of entry: Inhalation, ingestion, skin and eyes

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

GHS Classification:	- Flammable gases (Category 1) - Gases under pressure (Compressed gas)
GHS Label elements:	- Pictograms:
Hazards statement:	<ul> <li>H220 Extremely flammable gas.</li> <li>H280 Contains gas under pressure; may explode if heated.</li> </ul>
Precautionary statement	: - P210 Keep away from heat/ hot surfaces/ sparks/ open flames/ ignition sources. No smoking.

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

<u>Name</u>	<u>CAS</u>	Concentration %
Propene-d <sub>6</sub>	1517-52-8	> 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 an oxidizing gas (e.g. air), a source of ignition, and when the concentration of the gas is between the lower and upper explosive limits. Keep away from heat/sparks/open flame/hot surface/oxidizing gas. No smoking. Lower explosion limit: 2 Vol% Upper explosion limit: 11.1 Vol% Auto-ignition temperature: 455 °C (851 °F) Flash point: -108 °C (-162 °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:** Ventilate area.

## 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: 42.08 g/mol Physical status: Gas Color: Colorless Odour: No data available Density: No data available Melting point: -185 °C (-301 °F) Boiling point: -48 °C (-54 °F) Vapour pressure: 11,586 hPa (8,690 mmHg) at 25 °C (77 °F) Vapour density: 1.45 (Air = 1) Partition coefficient (octanol/water): log Pow: 1.77 Water solubility: 0.2 g/L

## Section 10. Stability and reactivity

Stability and reactivity: Stable under recommended storage conditions.
 Incompatibility: Strong oxidizing agents, halogens.
 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: Propylene

#### Information on ingredients:

<u>Name</u>	<u>CAS</u>	<u>LD50</u>
Propylene	115-07-1	No data available

LC<sub>50</sub> Inhalation - Rat - 4 h - 658,000 mg/m<sup>3</sup>

**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:** This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Propene). ACGIH: A4 - Not classifiable as a human carcinogen.

- 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>	Species	<u>Period</u>	
Propylene	No data available			
Effects on environment: No Mobility: 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: Propylene UN number: UN1077 Class: 2.1 Packaging group: None

Additional information: None

## Section 15. Regulatory information

UNITED STATES: NFPA classification



Health: 0 Flammable: 4 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: Propylene 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):

A - Compressed gas

B1 - Flammable gas

## 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: July 30th, 2020

#### Version: 4

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

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