



Methyl-d₃ Vinyl Ether (gas)

Section 1. Chemical product and company identifications

Product code: D-0633 Chemical formula: C₃H₃D₃O CAS: 68473-30-3 CAS (unlabelled): 107-25-5 Synonyms: Methoxyethylene

Supplier / Manufacturer:

C/D/N Isotopes Inc.

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

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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:		
	- Signal word: Danger		
Hazards statement:	 H220 Extremely flammable gas. H280 Contains gas under pressure; may explode if heated. 		
Precautionary statement:	- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.		

Section 3. Composition and information on ingredients

<u>Name</u>	<u>CAS</u>	Concentration %
Methyl-d₃ Vinyl Ether	68473-30-3	> 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: 2.6 Vol% Upper explosion limit: 39 Vol% Auto-ignition temperature: 287 °C (549 °F) Flash point: -56 °C (-69 °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. Discharge into the environment must be avoided. **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: 58.08 g/mol Physical status: Gas Color: Colorless Odour: No data available Density: No data available Melting point: -123 °C (-189 °F) Boiling point: 6 °C (-189 °F) Vapour pressure: 1403 hPa (1052 mmHg) at 20 °C (68 °F) Vapour density: 2 (Air = 1) Partition coefficient (octanol/water): No data available Water solubility: 15 g/L

Section 10. Stability and reactivity

Stability and reactivity: Stable under recommended storage conditions.
 Incompatibility: Strong oxidizing agents, strong acids, 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: Methyl Vinyl Ether

Information on ingredients:

Name	<u>CAS</u>	<u>LD50</u>	<u>LC50</u>
Methyl Vinyl Ether	107-25-5	Oral - Rat - 4,900 mg/kg Dermal - Rabbit - > 8,000 mg/kg	Inhala

alation - Rat - 4 h - > 64,000 ppm

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>	Species	Period
Methyl Vinyl Ether	No data available		
Effects on environment: No data available	ata available.		

No data avallable. 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: Vinyl methyl ether, stabilized UN number: UN1087 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: Methyl Vinyl Ether 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 CWA (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: Not Listed New York – Dangerous substances with acute effects: Not Listed Dangerous substances in Pennsylvania – right to know: Not 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.

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

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