

■ SIGNAL WORD: DANGER

H225: Highly flammable. H301+H311+H331: Toxic by oral, dermal, and inhalation routes. H370: Causes damage to CNS and optic nerve (SE1).

SECTION 1: IDENTIFICATION

Product Name	Methanol
CAS Number	67-56-1
Synonyms	Methyl Alcohol; Wood Alcohol; Carbinol; MeOH; UN1230
Product Use	Industrial solvent; chemical feedstock; fuel component
Restrictions	NOT for food, beverage, or personal care use. POISON — causes blindness and death. Not for human consumption.
Supplier	Cannagas Supply 97 Turnpike Rd, Westborough, MA 01581
Phone	877-710-1965
Email	Sales@canna-gas.com
Emergency Phone	CHEMTREC: 1-800-424-9300 (24-hour)
SDS Revision Date	March 2026

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification	Flammable Liquid Cat 2 (H225). Acute Toxicity Oral Cat 3 (H301). Acute Toxicity Dermal Cat 3 (H311). Acute Toxicity Inhalation Cat 3 (H331). STOT SE Cat 1 (H370 — CNS, optic nerve).
Signal Word	DANGER
Hazard Statements	H225: Highly flammable liquid and vapor. H301: Toxic if swallowed. H311: Toxic in contact with skin. H331: Toxic if inhaled. H370: Causes damage to organs (CNS, optic nerve) — single exposure.
Precautionary – Prevention	P210: Keep away from heat/sparks/flames. P260: Do not breathe vapors. P264: Wash thoroughly after handling. P270: Do not eat/drink/smoke when using. P271: Use in well-ventilated area. P280: Wear PPE.
Precautionary – Response	P301+310: IF SWALLOWED — call poison center/doctor IMMEDIATELY. P303+361+353: IF ON SKIN/HAIR — remove clothing, rinse with water. P304+340: IF INHALED — remove to fresh air. P311: Call poison center/doctor. P370+378: In case of fire — use CO2/dry chemical.
Precautionary – Storage	P403+235: Store in well-ventilated place. Keep cool.
Precautionary – Disposal	P501: Dispose in accordance with local/regional/national regulations.
Other Hazards	CRITICAL: Methanol is a systemic poison. Ingestion, skin absorption, or inhalation of even small amounts may cause permanent blindness, CNS damage, or death. Methanol is NOT detectable by taste or smell at hazardous concentrations. NEVER use where ethanol contamination is possible.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Concentration	EC Number
Methanol (Methyl Alcohol)	67-56-1	≥99.0%	200-659-6

All components on TSCA Inventory. SARA 313 listed. California Prop. 65 reproductive toxin.

SECTION 4: FIRST-AID MEASURES

Inhalation	EMERGENCY: Remove to fresh air immediately. If unconscious, call 911. Seek immediate medical attention.
Skin Contact	EMERGENCY: Remove contaminated clothing immediately. Wash with large amounts of water for at least 15 minutes. Methanol absorbs through skin — seek medical attention even if no symptoms.
Eye Contact	EMERGENCY: Rinse immediately with large amounts of water for at least 15 minutes. Seek immediate medical attention — methanol can cause blindness via ocular absorption.
Ingestion	EMERGENCY: Call 911 or poison control (1-800-222-1222) IMMEDIATELY. Do NOT induce vomiting. Ethanol (200 proof) is an antidote — administer only under medical supervision.
Key Symptoms	CRITICAL: Headache, dizziness, nausea, vomiting, abdominal pain. Eye symptoms (blurred vision, reduced vision) may be delayed 12–24 hours. Permanent blindness, metabolic acidosis, and death possible.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	CO2, dry chemical, alcohol-resistant foam. Water may be ineffective for large fires.
Specific Hazards	HIGHLY FLAMMABLE — flash point 11°C (52°F). Vapors heavier than air — may travel to distant ignition sources and flash back. May form explosive mixtures with air.
Protective Equipment	Self-contained breathing apparatus (SCBA) and full protective gear for structural firefighters.
Flash Point	11°C (52°F) — Closed Cup
Autoignition Temperature	464°C (867°F)
Flammable Limits (LEL/UEL)	LEL: 6.0% / UEL: 36.5% in air

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions	Full PPE: chemical splash goggles, face shield, chemical-resistant gloves, impervious clothing. Eliminate all ignition sources before entry.
Environmental Precautions	Do not allow to enter drains, sewers, surface or ground water.
Containment & Cleanup	Evacuate area. Eliminate ignition sources. Absorb with inert material (sand, vermiculite). Transfer to sealed containers for disposal. Ventilate area thoroughly.

SECTION 7: HANDLING AND STORAGE

Safe Handling	Use in well-ventilated area or fume hood. Eliminate all ignition sources. Wear full chemical-resistant PPE. Do not eat/drink/smoke. Wash thoroughly after handling. Never store with food or beverages.
Safe Storage	Cool, dry, well-ventilated area away from heat and ignition sources. Store away from strong oxidizers. Keep in sealed containers. P403+235.
Incompatibles	Strong oxidizers, strong acids, alkali metals, halogens. Reacts with sodium to produce hydrogen gas.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	Limit Type	Value	Authority
Methanol	TWA	200 ppm (262 mg/m3)	OSHA PEL
Methanol	STEL	250 ppm	ACGIH TLV
Methanol	IDLH	6,000 ppm	NIOSH
Methanol	TWA (skin)	200 ppm	NIOSH REL — skin absorption hazard

Engineering Controls	Fume hood or local exhaust ventilation. Closed systems where possible. Eyewash and safety shower.
Eye/Face Protection	Chemical splash goggles + face shield.
Hand Protection	Appropriate protective gloves.
Body Protection	Lab coat or overalls.
Respiratory Protection	Supplied air respirator or organic vapor cartridge respirator above OEL. Do not use air-purifying respirator in emergency situations.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Clear, colorless liquid	Density	0.791 g/mL at 20°C
Odor	Faint alcohol odor (DANGER: not detectable at toxic levels)	Molecular Formula	CH4O MW: 32.04 g/mol
Boiling Point	64.7°C (148.5°F)	Solubility	Completely miscible with water
Flash Point	11°C (52°F) — Closed Cup	LEL / UEL	6.0% / 36.5% in air
Auto-ignition	464°C (867°F)	Vapor Density	1.11 (air = 1)
Vapor Pressure	127 hPa at 20°C	pH	Neutral (~7.0)

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Reacts with oxidizing agents. Reacts with sodium/potassium metals (produces H2 gas).
Chemical Stability	Stable under recommended storage conditions.
Hazardous Polymerization	Will not occur.
Conditions to Avoid	Heat, sparks, open flames, oxidizing agents.
Incompatible Materials	Strong oxidizers, strong acids, alkali metals, halogens. Reacts with sodium to produce hydrogen gas.
Hazardous Decomp. Products	Carbon monoxide, carbon dioxide, formaldehyde (thermal decomposition).

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Exposure	Inhalation, skin absorption, ingestion — all routes are hazardous.
Acute Toxicity	LD50 oral (rat): 5,628 mg/kg. LC50 inhalation (rat): 64,000 ppm/4hr. TOXIC by all exposure routes.
Skin/Eye Effects	Causes skin defatting with repeated contact. Eye irritant — can cause blindness via absorption.
Respiratory Effects	Vapors toxic by inhalation (H331). Causes CNS effects at high concentrations.
Carcinogenicity	Not classified as carcinogenic.
STOT – Single Exp.	STOT SE Category 1 — H370: Causes damage to CNS and optic nerve via single exposure.
STOT – Repeated Exp.	No additional classification beyond SE1.
Reproductive Toxicity	California Prop. 65: Listed as developmental toxin.
Chronic Effects	Chronic exposure may cause optic neuropathy, CNS damage, and liver/kidney effects.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Toxic to aquatic organisms in high concentrations. CERCLA RQ: 5,000 lbs.
Persistence/Degradability	Readily biodegradable.
Bioaccumulative Potential	Not bioaccumulative. Low log Kow (-0.77).

Mobility in Soil Highly mobile in soil and water.

Other Adverse Effects Avoid release to environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods Dispose as hazardous waste per 40 CFR 261. Do not pour down drain in quantity.

Contaminated Packaging Dispose in accordance with applicable regulations.

SECTION 14: TRANSPORT INFORMATION

	DOT (USA)	IATA (Air)	IMDG (Sea)
UN Number	UN1230	UN1230	UN1230
Proper Ship. Name	Methanol	Methanol	Methanol
Hazard Class	Class 3, PG II	Class 3	Class 3
Packing Group	II	II	II

SECTION 15: REGULATORY INFORMATION

OSHA HazCom Classified as Hazardous per 29 CFR 1910.1200.

SARA 311/312 Acute Health: Yes | Chronic Health: Yes | Fire: Yes | Reactivity: No. SARA 313 listed.

CERCLA CERCLA RQ: 5,000 lbs (2,270 kg). Report spills ≥5,000 lbs to NRC.

TSCA All components listed on US TSCA Inventory.

California Prop. 65 WARNING: This product can expose you to Methanol, known to the State of California to cause birth defects or reproductive harm. See www.P65Warnings.ca.gov.

Canadian DSL All components listed on Canadian DSL Inventory.

SECTION 16: OTHER INFORMATION

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Prepared By Cannagas Supply

Key Sources GHS Purple Book Rev. 9; OSHA HazCom 2012; NIOSH Pocket Guide; ACGIH TLVs; ATSDR Methanol Profile.

DISCLAIMER: The information in this Safety Data Sheet is believed to be accurate and represents the best information currently available to Cannagas Supply. This SDS is provided in good faith without warranty of any kind. Users are responsible for determining suitability of this product for their specific application and for compliance with all applicable laws and regulations.