

# MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

Manufacturer: ProChem, Inc.  
826 Roosevelt Road  
Rockford, IL 61109

Phone: (815) 398-1788  
Fax: (815) 398-1810  
E-Mail: Prochem1@aol.com

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## SECTION 1 Product Identification

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**CHEMICAL NAME:** Methyl Alcohol  
**CAS #:** 67-56-1  
**FORMULA:** CH<sub>3</sub>OH  
**SYNONYM:** Wood alcohol, methanol, Carbinol

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## SECTION 2 Composition and Information on Ingredients

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INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	67-56-1	100	no data	no data

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## SECTION 3 Hazards Identification

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**EMERGENCY OVERVIEW:** WARNING! POISON! VAPOR HARMFUL MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. CANNOT BE MADE NONPOISONOUS. FLAMMABLE LIQUID AND VAPOR. CAUSES IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. AFFECTS LIVER.

**EYE CONTACT:** Irritant. Continued exposure may cause eye lesions

**SKIN CONTACT:** Methyl alcohol is a defatting agent and may cause skin to become dry and cracked. Skin absorption can occur. symptoms may parallel inhalation exposure.

**INHALATION:** A slight irritant to the mucous membranes. Toxic effects exerted upon nervous system, particularly the optic nerve. Once absorbed into the body, it is very slowly eliminated symptoms of overexposure may include headache, drowsiness, nausea, vomiting, blurred vision, blindness, coma, and death. A person may get better but then worse again up to 30 hrs later.

**INGESTION:** Toxic. Symptoms parallel inhalation. Can intoxicate and cause blindness. Usual fatal dose 100-125 milliliters.

**CHRONIC HEALTH EFFECTS:** Marked impairment of vision and enlargement of the liver has been reported. Repeated or prolonged exposure may cause skin irritation .

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## SECTION 4 First Aid Measures

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**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as

difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.  
**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

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## **SECTION 5                      Firefighting Measures**

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**FLASH POINT:** 12C

**AUTO IGNITION TEMPERATURE:** 464C

**EXPLOSION LIMITS:** no data

**EXTINGUISHING MEDIUM:** water spray, dry chemical, alcohol foam, or carbon dioxide.

**SPECIAL FIREFIGHTING PROCEDURES:** If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

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## **SECTION 6                      Accidental Release Measures**

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**SPILL AND LEAK PROCEDURES:** Ventilate area of leak or spill. Remove all sources of ignition.

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## **SECTION 7                      Handling and Storage**

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**HANDLING AND STORAGE:** Store material in a tightly sealed container . Store in a cool, dry, well-ventilated area.

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## **SECTION 8                      Exposure Controls and Personal Protection**

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**EYE PROTECTION:** Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

**SKIN PROTECTION:** Chemical-resistant.

**VENTILATION:** If possible, handle the material in an efficient fume hood.

**RESPIRATOR:** If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

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## **SECTION 9                      Physical and Chemical Properties**

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**COLOR AND FORM:** clear, colorless liquid

**MOLECULAR WEIGHT:** no data

**MELTING POINT (DEG. C.):** -98C

**BOILING POINT:** 64.5C

**VAPOR PRESSURE:** 97 @ 20C

**SPECIFIC GRAVITY:** 0.8

**SOLUBILITY IN WATER:** Miscible in water

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## **SECTION 10                    Stability and Reactivity**

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**STABILITY:** Stable under ordinary conditions of use and storage.

**HAZARDOUS POLYMERIZATION:** will not occur

**CONDITIONS TO AVOID:** Heat, flames, ignition sources and incompatibles.

**INCOMPATIBILITY:** Strong oxidizing agents such as nitrates, perchlorates or sulfuric acid. May react with metallic aluminum and generate hydrogen gas.

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## **SECTION 11 Toxicological Information**

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**RTECS DATA:** Oral rat LD50: 5628 mg/kg; inhalation rat LC50: 64000 ppm/4H; skin rabbit LD50: 15800 mg/kg; Irritation data standard Draize test: skin, rabbit: rabbit: 20mg/24hr. Moderate; eye, rabbit: 100mg/24hr. Moderate: Investigated as a mutagen, reproductive effector.

**MUTAGENIC EFFECTS:** no data

**TETRATOGENIC EFFECTS:** no data

**CARCINOGENIC EFFECTS:** no data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

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## **SECTION 12 Ecological Information**

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**ECOLOGICAL INFORMATION:** No information available

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## **SECTION 13 Disposal Considerations**

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**DISPOSAL:** Dispose of in according to local state and federal regulations.

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## **SECTION 14 Transportation Information**

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Methanol, Class 3, UN1230, PG II

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## **SECTION 15 Regulatory Information**

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**TSCA:** Listed in the TSCA inventory

**SARA (TITLE 313):** Title compound not listed

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## **SECTION 16 Other Information**

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