

Section 1. Product and Company Identification

Product Name Methanol
CAS Number 67-56-1

Parchem - fine & specialty chemicals
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EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

GHS Classification(s)

Acute Toxicity, Dermal (Category 3)
Acute Toxicity, Inhalation (Category 3)
Acute Toxicity, Oral (Category 3)
Flammable Liquids (Category 2)
Specific target organ toxicity - single exposure (Category 1)
Specific target organ toxicity - single exposure (Category 2)

GHS Label Elements

Pictograms:



Signal word: DANGER!

Hazard and precautionary statements

Hazard statement(s)

H225 Highly flammable liquid and vapor.
H301 + H311 Toxic if swallowed or in contact with skin.
H315 Causes skin irritation.
H331 Toxic if inhaled

Precautionary statement(s)

P263 Avoid contact during pregnancy/while nursing.
P501 Dispose of contents and container to an approved waste disposal plant.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P270 Do not eat, drink or smoke when using this product.



- P240 Ground/bond container and receiving equipment.
- P307 + P311 IF exposed: Call a POISON CENTER or doctor/physician.
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P303 + P361 + P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or a doctor/physician.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
- P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P322 Specific measures (see first aid measures on this label)
- P321 Specific treatment (see supplemental first aid instructions on this label).
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P403 + P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P243 Take precautionary measures against static discharge.
- P241 Use explosion-proof electrical, ventilating, and lighting equipment.
- P242 Use only non-sparking tools.
- P271 Use only outdoors or in a well-ventilated area.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves and eye and face protection.

OSHA Hazards: Flammable liquid, Irritant, Target organ effect, Toxic by ingestion, Toxic by skin absorption

Target Organs: Central nervous system, Eyes, Kidney, Liver

Potential Health Effects

Eyes: Causes eye irritation.

Ingestion: Toxic if swallowed.

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin: Toxic if absorbed through skin. Causes skin irritation.

Section 3. Composition / Information on Ingredients

Common Name	Methanol
Synonym(s)	Methyl Alcohol; Carbinol; Methol hydroxide; Methyl hydrate; Methyl hydroxide; Methylol; Wood alcohol
Formula	CH ₄ O
CAS Number	67-56-1

COMPONENT	CAS NUMBER	CONCENTRATION
Methanol	67-56-1	100%



Section 4. First Aid Measures

General advice: Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Skin: Wash skin with soap and copious amounts of water. Seek medical attention.

Inhalation: Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

Eyes: Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention.

Ingestion: DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.

Section 5. Firefighting Measures

Suitable (and unsuitable) extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products): Carbon oxides expected to be the primary hazardous combustion product.

Special protective equipment and precautions for firefighters: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.

Flammable Properties

Classification: OSHA/NFPA Class IB Flammable Liquid.

Flash point: 11°C (52°F) - Closed Cup

Auto ignition temperature: 464°C (867°F)

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear respiratory protection. Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions: Stop leak/contain spill if possible and safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up: Contain spill, then collect with an electrically protected vacuum cleaner or by wet-brushing and put the material into a convenient waste disposal container. Keep container closed.



Section 7. Handling and Storage

Precautions for safe handling: Do not get on skin or in eyes. Do not inhale vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8. Exposure Controls / Personal Protection

Control parameters, e.g., occupational exposure limit values or biological limit values

Occupational Exposure Limits

Component	Source	Type	Value
Methyl Alcohol	US (ACGIH)	TWA	200 ppm
Methyl Alcohol	US (OSHA)	TWA	200 ppm
Methyl Alcohol	US (ACGIH)	STEL	250 ppm

Appropriate engineering controls: General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.

Individual protection measures, such as personal protective equipment

Respiratory protection: 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) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU). Maintain eye wash fountain and quick-drench facilities in work area.

Skin and body protection: Wear impervious, flame retardant, antistatic protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.



Section 9. Physical and Chemical Properties

Appearance: Liquid. Colorless, clear.

Freezing point: -98°C (-144°F)

Initial boiling point and boiling range: 64°C (147°F)

Flash point: 11°C (52°F) - Closed Cup

Upper/Lower flammability or explosive limits: 6.0% (V)/36.0% (V)

Vapor pressure (at 20°C): 130.3 hPa (97.7 mmHg)

Vapor Density: 1.1

Relative Density: 0.791 g/mL at 25°C (77°F)

Solubility: Completely miscible

Auto-ignition temperature: 464°C (867°F)

Molecular Weight: 32.04 g/mol

Section 10. Stability and Reactivity

Chemical Stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Vapors may form explosive mixture with air.

Conditions to avoid (e.g., static discharge, shock or vibration): Heat, flames and sparks. Extreme temperatures and direct sunlight.

Incompatible materials: Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section 11. Toxicological Information

Product Summary: No data available for the mutagenic, teratogenic, or reproductive effects of the product.

Acute Toxicity

LC50 (Inhl)	Rat	64,000 mg/Kg BWT	4 hours
LD50 (Oral)	Rat	5,628 mg/Kg BWT	
LD50 (Skin)	Rabbit	15,800 mg/Kg BWT	

Irritation

Eyes: Direct contact with the eyes produces a mild, reversible irritation, assuming treatment is initiated promptly. Methanol ingestion or inhalation can lead to visual disturbance that can proceed to blindness.

Skin: Standard Draize skin test (rabbit) - Dose: 20 mg/24 hrs Reaction: Moderate Repeated exposure may cause skin dryness or cracking.



Carcinogenicity

IARC: Not classifiable as a human carcinogen.

ACGIH: Not classifiable as a human carcinogen.

NTP: Not classifiable as a human carcinogen.

OSHA: Not classifiable as a human carcinogen.

Other Hazards

Organ	Description
Eyes	Irritating to the eyes.
Ingestion	Poison, may be fatal or cause blindness if swallowed. Cannot be made non-poisonous. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Inhalation	Toxic by inhalation. Vapor harmful. May be irritating to the respiratory tract.
Skin	Toxic in contact with skin. Irritating to skin.
Chronic	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. Experiments have shown reproductive toxicity effects on laboratory animals. May cause adverse liver effects. May cause adverse kidney effects. Methanol is slowly eliminated from the body, therefore it can have cumulative toxicity effects with repeated exposures.

Section 12. Ecological Information

Ecotoxicity (aquatic and terrestrial, where available):

Acute Fish Toxicity

LC50/96 hours *Lepomis macrochirus*: 15,400 mg/L

LC50/96 hours Fathead minnow: 29,400 mg/L

Toxicity to Aquatic Plants

EC50/96 hours *Scenedesmus capricornutum*: 22,000 mg/L

Persistence and degradability: This material is expected to be readily biodegradable. There is evidence that it is degraded under anaerobic conditions.

Bioaccumulative potential: Bioconcentration factor (BCF) of 0.2. This material is not expected to bioaccumulate.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.



Section 14. Transport Information

Reportable Quantity: 5,000 lbs.

IMDG

UN-Number: UN1230

Class: 3 (6.1)

Packing Group: II

EMS-No: F-E, S-D

Proper shipping name: METHANOL

Marine pollutant: No

IATA

UN-Number: UN1230

Class: 3 (6.1)

Packing Group: II

Proper shipping name: Methanol

Section 15. Regulatory Information

Safety, health and environmental regulations specific for the product in question

OSHA Hazards: Flammable liquid, Irritant, Target organ effect, Toxic by ingestion, Toxic by skin absorption

All ingredients are on the following inventories or are exempted from listing

Country	Notification
Australia	AICS
Canada	DSL
China	IECS
European Union	EINECS
Japan	ENCS/ISHL
Korea	ECL
New Zealand	NZIoC
Philippines	PICCS
United States of America	TSCA

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: The following components are subject to reporting levels established by SARA title III, Section 313: METHANOL (CAS# 67-56-1) Revision date 2007-07-01.



SARA 311/312 Hazards

Acute Health Hazard
Chronic Health Hazard
Fire Hazard

CERCLA: No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA

Massachusetts Right to Know Components

Methanol	CAS-No.	Revision Date
	67-56-1	2007-07-01

Pennsylvania Right To Know Components

Methanol	CAS-No.	Revision Date
	67-56-1	2007-07-01

New Jersey Right To Know Components

Methanol	CAS-No.	Revision Date
	67-56-1	2007-07-01

California Prop 65 Components: WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Methanol	CAS-No.	Revision Date
	67-56-1	2012-03-16

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 7/28/2015