



## Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Methanol ACS

50-2778

### Section 1: Identification

**Product Name** Methanol ACS

**Commercial Name** Not available.

**Product Use** Not available.

**Restrictions On Use** Not available.

**Product Code** 50-2778

**Company** PCCA  
9901 South Wilcrest  
Houston, TX 77099  
Phone: 1-800-331-2498  
Fax: 1-800-874-5760

In case of emergency contact:  
**CHEMTREC (24hr) 1-800-424-9300**

### Section 2: Hazard(s) Identification

**OSHA Haz Com:** Flammable liquids Category 2 Acute oral toxicity Category 3 Acute dermal toxicity Category 3 Acute  
**CFR 1910.1200** Inhalation Toxicity - Vapors Category 3 Specific target organ toxicity (single exposure) Category 1 Target  
Organs - Optic nerve, Central nervous system (CNS). Specific target organ toxicity - (repeated exposure)  
Category 1 Target Organs - Kidney, Liver, spleen, Blood.

**Signal Word** DANGER

**Hazard Statement(s)** Highly flammable liquid and vapor. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. Toxic if swallowed, in contact with skin or if inhaled.

**Pictogram(s) or Symbol(s)**



**Precautionary Statement(s):**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting equipment Use only non-sparking tools Take precautionary measures against static discharge Keep cool

#### Response

IF exposed: Call a POISON CENTER or doctor/physician IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth In case of fire:

#### Storage

Use CO<sub>2</sub>, dry chemical, or foam for extinction

#### Disposal

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Dispose of contents/container to an approved waste disposal plant

### Section 3: Composition/Information on Ingredients

**Substance/Mixture** Substance  
**Components** Methanol ACS  
**% By Weight** 100  
**CAS#** 67-56-1  
**Molecular Weight** 32.04 g/mole  
**Chemical Formula** CH<sub>4</sub>O  
**Synonym(s)** Methyl Alcohol

#### Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Methanol ACS	67-56-1	100	N/A	N/A

**Section 4: First-Aid Measures**

<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
<b>Ingestion</b>	Do NOT induce vomiting. Call a physician or poison control center immediately.
<b>Symptoms/Effects</b>	
<b>Acute</b>	Difficulty in breathing. May cause blindness: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting
<b>Delayed</b>	Difficulty in breathing. May cause blindness: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting
<b>Immediate Medical Attention</b>	Treat symptomatically

**Section 5: Fire-Fighting Measures****Suitable Extinguishing Media**

Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.

**Unsuitable Extinguishing Media**

Water may be ineffective

**Products of Combustion**

Carbon monoxide (CO). Formaldehyde

**Firefighters Special Equipment and Precautions**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

**Section 6: Accidental Release Measures**

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment as required. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. Environmental Precautions: Should not be released into the environment. See Section 12 for additional Ecological Information. Methods for Containment and Clean Up: Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

**Section 7: Handling and Storage**

Handling: Wear personal protective equipment/face protection. Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges. Storage: Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Flammables area. Incompatible Materials. Strong oxidizing agents. Strong acids. Acid anhydrides. Acid chlorides. Strong bases. Metals. Peroxides.

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	Component Methyl alcohol ACGIH TLV: TWA: 200 ppm STEL: 250 ppm Skin OSHA PEL: (Vacated) TWA: 200 ppm (Vacated) TWA: 260 mg/m <sup>3</sup> (Vacated) STEL: 250 ppm (Vacated) STEL: 325 mg/m <sup>3</sup> Skin TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> NIOSH IDLH: IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 250 ppm STEL: 325 mg/m <sup>3</sup> Mexico OEL (TWA) TWA: 200 ppm STEL: 250 ppm
<b>Engineering Controls</b>	Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location.



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### Personal Protection

Eye/face Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Hygiene Measures: When using do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	Colorless Liquid.	<b>pH</b>	Not available
<b>Odor</b>	alcohol-like odor.	<b>Vapor Pressure</b>	128 hPa @ 20 °C
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	1.11 (Air = 1)
<b>Melting Point</b>	-98 °C/-144.4F	<b>Viscosity</b>	0.55 cP @20C
<b>Freezing Point</b>	Not available	<b>Evaporation Rate</b>	5.2 (ether=1.0)
<b>Boiling Point/Range</b>	64.55 °C /148.5F@760mmHg		
<b>Decomposition temperature</b>	Not available		
<b>Partition Coefficient: n-octanol/water</b>	Not available		
<b>Flash Point</b>	9.7 °C / 49.5 °F	<b>Autoignition temperature</b>	455 °C / 851 °F
<b>Flammability</b>	Not available	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	6.0%
		<b>Upper</b>	31.00%
<b>Solubility(ies)</b>	Miscible with water		
<b>Other</b>	Molecular Formula C H4 O Molecular Weight 32.04 VOC Content(%) 100 Surface tension 0.02255 N/m @ 20°C		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not available
<b>Chemical Stability</b>	Stable under normal conditions.
<b>Hazardous Polymerization</b>	Hazardous polymerization will not occur.
<b>Conditions to Avoid</b>	Incompatible products. Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of ignition
<b>Incompatible Materials</b>	Strong oxidizing agents, strong acids, acid anhydrides, acid chlorides, strong bases, metals, peroxides
<b>Hazardous Decomposition Products</b>	Carbon monoxide(CO), Formaldehyde

**Section 11: Toxicological Information**

<b>RTECS</b>	PC1400000
<b>Acute Toxicity</b>	ORAL-RAT LD50: LD50 = 1187 – 2769 m LD50 Dermal: LD50 = 17100 mg/kg ( Rabbit ) LC50 Inhalation: LC50 = 128.2 mg/L ( Rat ) 4 h
<b>Skin Corrosion/Irritation</b>	May cause skin and eye irritation
<b>Serious Eye Damage/Irritation</b>	May cause skin and eye irritation
<b>Respiratory or Skin Sensitization</b>	No information available
<b>Germ Cell Mutagenicity</b>	Not available
<b>Carcinogenicity</b>	Not available
<b>Reproductive Toxicity</b>	Not available.

**Routes of Entry**

Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

**Symptoms Related to Exposure**

May cause blindness: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

**Potential Health Effects**

Not available.

**Target Organ(s)** STOT - single exposure Optic nerve Central nervous system (CNS) STOT - repeated exposure Kidney Liver spleen

**Section 12: Ecological Information****Ecotoxicity**

Freshwater Algae: Not listed Freshwater Fish: Pimephales promelas: LC50 > 10000 mg/L 96h Microtox: EC50 = 39000 mg/L 25 min, EC50 = 40000 mg/L 15 min, EC50 = 43000 mg/L 5 min Water Flea: EC50 > 10000 mg/L 24h

**Persistence and Degradability**

Persistence is unlikely based on information available.

**Bioaccumulative Potential**

Not available

**Mobility in Soil**

Will likely be mobile in the environment due to its volatility. Component: Methyl alcohol Log Pow: -0.74

**Other Adverse Effects**

Not available

**Section 13: Disposal Considerations****Waste Disposal**

Should not be released into the environment.

**Disposal of Container**

Not available

**Other Considerations**

Not available

**Section 14: Transport Information****DOT Classification**

DOT UN-No UN1230 Proper Shipping Name METHANOL Hazard Class 3 Packing Group II

**Section 15: Regulatory Information****Regulations**

Not available.

**Other**

Not available.

**Section 16: Other Information**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.