

# Safety Data Sheet

Part Number 326704

## Section 1. Substance Identity and Company Contact Information

**Product Name** Methanol with 100 ppm Detector Check Standard **Product Part Number(s)** 218966 and 222919

**Trade Name** Methyl Alcohol **Unit Size** 1 mL

**Company** OI Analytical, P.O. Box 9010, College Station, TX 77842-9010, Phone: (979) 690-1711, Fax: (979) 690-0440

**Emergency No. 1-800-424-9300 (Chemtrec).** Use only in the event of chemical emergencies involving spills, leaks, fire, exposure, or accidents involving chemicals.

## Section 2. Hazards Identification

**Pictogram(s)**



**Signal Word**

Danger

**Precautionary Statement(s)**

Fatal if swallowed. Flammable liquid and vapor. Harmful if inhaled or absorbed through the skin. Slightly toxic to aquatic life. Cannot be made nonpoisonous. Causes irritation to skin, eyes, and respiratory tract.

**Target Organ(s)**

General nervous system, liver, skin, and eyes

**Potential Health Effects**

Eye: May cause irritation.

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

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

Inhalation: A slight irritant to the mucous membranes. Toxic effects expected upon nervous system, particularly the optic nerve. Once absorbed into the body, it is very slowly eliminated.

**Chronic Effects/ Carcinogenicity**

IARC: Not available  
 NTP: Not available  
 OSHA: Not available

**Teratology (Birth Defects) Information**

May cause birth defects and adverse reproductive effects (paternal and maternal effects and fetotoxicity) based on animal studies.

**Reproductive Information**

Not available

**NFPA Ratings**

Health: 1  
 Flammability: 3  
 Reactivity: 0  
 Special Notice Key: Not available

**HMIS Rating**

Health: 2  
 Flammability: 3  
 Reactivity: 0  
 Protective Equipment: H

### Section 3. Chemical Composition and Data on Components

Ingredient	CAS No.	Percent	Hazard Data	
			ACGIH TLV	OSHA PEL
Methyl Alcohol	67-56-1	100	No data available	200
Bromoform	75-25-2	100 µg/mL	No data available	0.5 ppm (5 mg/m <sup>3</sup> ) (skin)
Chlorobenzene	108-90-7	100 µg/mL	No data available	75 ppm (350 mg/m <sup>3</sup> /8H)
1, 2-Dichlorobenzene	95-50-1	100 µg/mL	No data available	50 ppm (300 mg/m <sup>3</sup> ) (CL)
trans-1, 2-Dichloroethene	156-60-5	100 µg/mL	No data available	No data available
Naphthalene	91-20-3	100 µg/mL	No data available	10 ppm (50 mg/m <sup>3</sup> /8H)
Toluene	108-88-3	100 µg/mL	No data available	200 ppm
1, 2, 3-Trichlorobenzene	87-61-6	100 µg/mL	No data available	No data available
Trichloroethene	79-01-6	100 µg/mL	No data available	50 ppm (270 mg/m <sup>3</sup> /8H)

### Section 4. First Aid Measures

<b>General Advice</b>	Not available
<b>If Inhaled</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
<b>In Case of Skin Contact</b>	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
<b>In Case of Eye Contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
<b>If Swallowed</b>	Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
<b>Indication of Any Immediate Medical Attention and Special Treatment Needed</b>	Medical attention must be immediate.

### Section 5. Fire-fighting Measures

<b>General Information</b>	Highly flammable in presence of open flames and sparks of heat.
<b>Suitable Extinguishing Media</b>	Use alcohol foam, dry chemical, or carbon dioxide. Water may be ineffective.
<b>Special Hazards Arising from the Substance or mixture</b>	No data available
<b>Advice for Firefighters</b>	Wear a self-contained breathing apparatus for fire fighting.
<b>Flash Point</b>	12 °C (54 °F)
<b>Autoignition Temperature</b>	464 °C (867 °F)
<b>Further Information</b>	Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Moderate explosion hazard and dangerous fire hazard when exposed to heat, sparks, or flames. Sensitive to static discharge.

## Section 6. Accidental Release Measures

**Personal Precautions, Protective Equipment, and Emergency Procedures** See Section 8.

**Environmental Precautions** Not available

**Methods and Materials for Containment and Cleaning** Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak and to flush spills away from exposures. US Regulations (CERCLA) require reporting spills and releases to soil, water, and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

**Reference to Other Sections** For disposal, see Section 13.

## Section 7. Handling and Storage

**Precautions for Safe Handling** Wash thoroughly after handling. Use only in well ventilated area. Ground and bond containers when transferring material. Avoid contact with eyes, skin, and clothing. Empty containers when transferring material. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks, and flames. Do not ingest or inhale. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks, or open flames.

**Conditions for Safe Storage, Including any Incompatibilities** Protect against physical damage. Store in a cool, dry, well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be no smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warning and precautions listed for the product. Do not attempt to clean empty containers since residue is difficult to remove. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, sparks, flame, static electricity, or other sources of ignition. They may explode and cause injury or death.

## Section 8. Exposure Controls and Personal Protection

**Components with Workplace Control Parameters** Not available

**Appropriate Engineering Controls** General industrial hygiene practice

**Eye/Face Protection** Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

**Skin Protection** Rubber or neoprene gloves

**Body Protection** Impervious boots, apron, or coveralls

**Respiratory Protection** If the exposure limit is exceeded and engineering controls are not feasible, wear a supplied air, full-facepiece respirator, airlined hood, or full-facepiece self-contained breathing apparatus. Breathing air quality must meet the requirements of the OSHA respiratory protection standard (29 CFR 1910.134). This substance has poor warning properties. A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details. Use explosion-proof equipment.

**Control of Environmental Exposure** No special environmental precautions required.

## Section 9. Physical and Chemical Properties

<b>Appearance</b>	Form: Liquid; Color: Clear, colorless
<b>Odor</b>	Characteristic odor
<b>Odor Threshold</b>	No data available
<b>pH</b>	Not available
<b>Melting Point/Freezing Point</b>	-98 °C (-144 °F)
<b>Initial Boiling Point and Boiling Range</b>	64.5 °C (147 °F)
<b>Flash Point</b>	12 °C (54 °F)
<b>Evaporation Rate</b>	No data available
<b>Flammability (solid, gas)</b>	Flammable
<b>Upper/Lower Flammability or Explosive Limits</b>	No data available
<b>Vapor Pressure</b>	97 @ 20 °C (68 °F)
<b>Vapor Density</b>	1.1
<b>Relative Density</b>	Not available
<b>Water Solubility</b>	Easily soluble in cold, hot water
<b>Partition Coefficient : n-octanol/water</b>	No data available
<b>Auto-ignition Temperature</b>	464 °C (867 °F)
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive Properties</b>	No data available
<b>Oxidizing Properties</b>	No data available
<b>Other Safety Information</b>	No data available

## Section 10. Stability and Reactivity

<b>Reactivity</b>	No data available
<b>Chemical Stability</b>	Stable under ordinary conditions of storage and use.
<b>Possibility of Hazardous Reactions</b>	Not available
<b>Conditions to Avoid</b>	Heat, flames, ignition sources, and incompatibilities
<b>Incompatible Materials</b>	Strong oxidizing agents such as nitrates, perchlorates or sulfuric acid. Will attack some forms of plastics, rubber, and coatings. May react with metallic aluminum and generate hydrogen gas.

## Section 11. Toxicological Information

<b>Routes of Exposure</b>	<i>On the skin:</i>	Absorbed through skin.
	<i>On the eye:</i>	May cause irritation
	<i>Inhalation:</i>	May be harmful if inhaled. May cause respiratory tract irritation.
	<i>Ingestion:</i>	May be fatal if swallowed.
<b>Respiratory or Skin Sensitization</b>	Not available	
<b>Signs and Symptoms of Overexposure</b>	Headache, drowsiness, nausea, vomiting, blurred vision, coma, and even death. Person might get better and worse again and again for up to 30 hours.	
<b>Toxicity Data</b>	<i>Oral Rat</i>	5,628 mg/kg

## Section 12. Ecological Information

**General Notes** When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to have a half-life between 1 and 10 days. When released into water, this material is expected to readily biodegrade. When released into the air, this material is expected to exist in the aerosol phase with a short half-life. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into air, this material is expected to have a half-life between 10 and 30 days. When released into the air, this material is expected to be readily removed from the atmosphere by wet deposition. This material is expected to be slightly toxic to aquatic life.

## Section 13. Disposal Considerations

**Product** Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA-approved incinerator or disposed in a RCRA-approved waste facility. Processing, use, or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements.

**Contaminated Packaging** Not available

## Section 14. Transport Information

**DOT Shipping Name** Methanol  
**UN Proper Shipping Name** Not available  
**DOT Hazard Class** 3  
**Packing Group** Not available  
**UN Number** 1230  
**Hazardous Ingredients** Not available  
**DOT Label** Not available  
**DOT Placard** Not available

**IMDG Shipping Name** Not available  
**UN Number** Not available  
**Class** Not available  
**Packing Group** Not available

**IATA Shipping Name** Not available  
**Technical Shipping Name** Not available  
**IATA Hazard Class** Not available  
**UN Number** Not available  
**Hazardous Ingredients** Not available  
**IATA Label** Not available  
**IATA Placard** Not available

## Section 15. Regulatory Information

<b>OSHA Status</b>	Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)	
<b>TSCA Status</b>	Yes	
<b>CERCLA Reportable Quantity</b>	5,000 lbs (2,268 kg)	
<b>SARA Title III</b>	Not available	
<b>RCRA Status</b>	U154	
<b>California Proposition 65</b>	Methyl alcohol	
<b>Chemical Weapons Convention</b>	No	
<b>TSCA 12 (b)</b>	No	
<b>SARA 311/312</b>	Acute:	Yes
	Chronic:	Yes
	Fire:	Yes
	Pressure:	No
	Reactivity:	No
<b>Australian Hazchem Code</b>	2PE	
<b>Poison Schedule</b>	S6	
<b>WHMIS</b>	This SDS has been prepared according to the hazard criteria of the Controlled Product Regulations (CPR) and the SDS contains all of the information required by the CPR.	

## Section 16. Other Information

Date Prepared: April 14, 2004

Revised: May 18, 2015

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