



## SAFETY DATA SHEET

### 1. Identification

**Product Name:** Methanol  
**Product Code:**  
**SDS Date:** 3/1/2019

**Address:** BVV  
1251 Frontenac Rd. Ste 150  
Naperville IL 60563  
**Phone:** (331) 281-0154

CHEMTEL: (800) 255-3924

### 2. Hazard(s) Identification

#### GHS Classification

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

#### Pictogram



#### Signal Word

Danger

#### Hazard Statement

Highly flammable liquid and vapor  
Toxic if swallowed, in contact with skin, or if inhaled  
Causes damage to organs.

#### Precautionary

**Prevention:**  
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.  
Wash hands thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Do not eat, drink, or smoke when using this product.  
Do not breathe mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.

#### Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash before reuse. Wash skin with plenty of water/shower.

In case of fire: consider water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
If swallowed: Immediately call a poison center/doctor. Rinse mouth.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If exposed or concerned: Get medical advice/attention.

### 3. Composition/Information On Ingredients

Name	Cas	Concentration
Methanol	67-56-1	1-100%

### 4. First-aid Measures

**If Inhaled:**

If symptoms are experienced, remove source of contamination or move victim to fresh air. If affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**In Case of Skin Contact:**

Wash off for 20 minutes. Remove contaminated clothing, and any extraneous chemical.

**In Case of Eye Contact:**

Immediately flush eyes with water for at least 20 minutes while holding eyelids open. Remove contact lenses. Get medical attention if irritation persists.

**If Swallowed:**

Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Medical care must emphasize the control of acidosis and the use of intravenous bicarbonate has been lifesaving. Evidence is good that treatment of methanol absorption is enhanced through the administration of ethanol, which should be given to produce a blood level of at least 0.1%. Ethanol diminishes the production of toxic metabolites of methanol. Blood methanol level of 50 mg/100mL is an indication for hemodialysis, which has improved the prognosis of methanol intoxication. Methanol is often confused with beverage alcohol (ethylalcohol). Care must be taken to prevent its ingestion, the most frequent cause of methanol poisoning. Prevent aspiration of vomit. Turn victim's head to the side. Do not induce vomiting. If the material is swallowed, get medical attention or advice.

**Note to Physician:**

In case of ingestion or massive inhalation, observe victim as an inpatient because of slow metabolism causes latent period of 24 hours between exposure and acidosis and blindness.

### 5. Fire-fighting Measures

**Extinguishing Media:**

Use methods appropriate for the surrounding fire. Consider carbon dioxide, dry chemical powder, dry sand, limestone powder, or alcohol resistant foam.

**Advice for Firefighters**

Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear self-contained breathing apparatus for fire-fighting if necessary.

**Products of Combustion:**

Incomplete combustion may form carbon monoxide. Fire or intense heat may cause violent rupture of packages. Flash back possible over considerable distance. May form explosive mixtures in air. Downwind personnel must be evacuated. Burning produces obnoxious and toxic fumes. In the event of fire, cool tanks with water spray.

HAZARD	HMIS	NFPA
Toxicity	1	1
Fire	3	3
Reactivity	0	0

## 6. Accidental Release Measures

### Personal Precautions, Protective Equipment, and Emergency Procedures:

For large spills wear gloves, Tyvek suits, safety glasses, and appropriate NIOSH approved respiratory protection. Keep unnecessary personnel away. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

### Special Properties:

Flammable Liquid! This material releases vapors at or below ambient temperatures. When mixed with air in certain proportions and exposed to an ignition source, its vapor can cause a flash fire. Use only with adequate ventilation. Vapors are heavier than air and may travel long distances along the ground to an ignition source and flash back. A vapor and air mixture can create an explosion hazard in confined spaces such as sewers. If container is not properly cooled, it can rupture in the heat of a fire.

### Environmental Precautions:

Prevent discharge to open bodies of water, municipal sewers, and watercourses.

### Methods and Materials for Containment and Clean Up:

Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth. Control runoff and isolate discharged material for proper disposal. Approach release from upwind. Ventilate area of leak or spill. Use spark-proof tools to sweep or scrape up and containerize in approved chemical waste container.

## 7. Handling and Storage

### Safe Handling:

Keep away from heat, sparks and flame. Use only with adequate ventilation. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

### Safe Storage:

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

### Disposal:

Dispose of contents/ container to an approved waste disposal plant. Store locked up.

## 8. Exposure Controls/Personal Protection

Name	CAS		
Methanol	67-56-1		
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	200 ppm	250 ppm

### Engineering Control:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

### Eye/Face Protection:

Splash proof chemical goggles and face shield.

<b>Hand Protection:</b>	Butyl rubber gloves.
<b>Body Protection:</b>	Avoid skin contact. If product comes in contact with clothing, immediately remove soaked clothing and shower. Wear long sleeve shirts and trousers without cuffs.
<b>Respiratory Protection:</b>	Wear appropriate respirator when ventilation is inadequate.
<b>Other Protective Equipment:</b>	Facilities storing or utilizing this material should be equipped with eyewash and safety shower facilities.

## 9. Physical and Chemical Properties

<b>Appearance:</b>	Methanol	Clear liquid
<b>Odor:</b>	Methanol	Characteristic
<b>Color:</b>	Methanol	Not Available
<b>pH:</b>	Methanol	Not Available
<b>Melting Point:</b>	Methanol	144°F (-97.72°C)
<b>Freezing Point:</b>	Methanol	Not Available
<b>Density:</b>	Methanol	49.412 lb/ft3 (0.7915g/cm3)
<b>Flash Point:</b>	Methanol	11°C
<b>Evaporation Rate:</b>	Methanol	Not Available
<b>Flammability:</b>	Methanol	Class IB Flammable Liquid
<b>Upper Explosion Limit:</b>	Methanol	6%
<b>Lower Explosion Limit:</b>	Methanol	36.50%
<b>Octanol/Water partition coefficient (Kow)</b>	Methanol	Not Available
<b>Water Solubility:</b>	Methanol	Soluble
<b>Auto Ignition Temp:</b>	Methanol	385°C
<b>Decomposition Temp:</b>	Methanol	Not Available
<b>Viscosity:</b>	Methanol	Not Available

## 10. Stability and Reactivity

<b>Chemical Stability:</b>	This material is considered stable at ambient temperatures 70°C (21°C).
<b>Possibility of Hazardous Reactions:</b>	This product will not undergo polymerization.
<b>Conditions to Avoid:</b>	Flames, sparks, electrostatic discharge, heat and other ignition sources.
<b>Incompatible Materials:</b>	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
<b>Hazardous Decomposition Products:</b>	Hazardous decomposition products formed under fire conditions. - Carbon oxides

## 11. Toxicological Information

<b>Name:</b>	<b>CAS:</b>
Methanol	67-56-1
LD50: Oral, Mouse - 7300 mg/Kg	
LD50: Oral, Rabbit - 14200 mg/Kg	
LD50: Oral, Rat - 5628 mg/Kg	
LD50: Skin, Rabbit - 15800 mg/Kg	
LD50: Inhalation, Rat - 64000 ppm	
<b>Inhalation:</b>	An 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 over-exposure may include headache, drowsiness, nausea, vomiting, blurred vision, blindness, coma, and death. A person may get better but then worse up to 30 hours later.
<b>Ingestion:</b>	Toxic. Symptoms similar to those for inhalation, but severity and speed of appearance may be greater. May be fatal or cause blindness. Usual fatal dose: 100 – 125 ml. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.
<b>Skin Contact:</b>	Methyl Alcohol is a defatting agent and may cause skin to become dry and cracked. Skin absorption can occur in harmful amounts; symptoms may parallel inhalation exposure.
<b>Eye Contact:</b>	Irritant, characterized by a burning sensation, redness, tearing, inflammation, possible corneal injury, painful sensitization to light. Continued exposure may cause lesions.
<b>Chronic Exposure:</b>	Marked impairment of vision has been reported. Repeated or prolonged skin contact may cause dermatitis. Chronic exposure may cause reproductive disorders and teratogenic effects. Laboratory
<b>Mutagenic Effects:</b>	Laboratory experiments have resulted in mutagenic effects
<b>Carcinogenic Effects:</b>	Not Available
<b>Teratogenic Effects:</b>	Chronic exposure may cause reproductive disorders and teratogenic effects.

## 12. Ecological Information

Name	CAS	Toxicity
Methanol	67-56-1	EC50 (48 h) : 13,200 mg/l Species : Rainbow trout ( <i>Oncorhynchus mykiss</i> ) EC50 (48 h) : 16,000 mg/l Species : Bluegill sunfish ( <i>Lepomis macrochirus</i> ) EC50 (48 h) : > 10,000 mg/l Species : Daphnia

## 13. Disposal Considerations

Dispose of in accordance with local, state, and federal regulations.

## 14. Transportation Information

Proper Shipping Name:	Methanol
Hazard Class	3
Identification Number:	UN1230
Packing Group:	II
Label	Flammable
Ship:	UN1230 METHANOL CLASS 3 PG II

## 15. Regulatory Information

Name	CAS
TSCA Inventory	This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.
SARA 302/304	The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.
SARA 313	Methanol (CAS #67-56-1) 1.0% de minimus
CERCLA	The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product or refinery stream that may be subject to this statute are: Methanol [CAS No. 67-56-1] RQ = 5,000
SARA 311/312	The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard, Fire Hazard
PROP 65	This product contains a chemical (Methanol) known to the State of California to cause birth defects or other developmental harm.

For more information, go to: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## 16. Other Information, Including Date of Preparation or Last Revision

SDS Date: 3/1/2019

Disclaimer: The information and recommendations contained in the Safety Data Sheet (SDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and

recommendations set forth herein are presented in good faith and believed to be correct as of this date hereof. BVV, however, makes no representation as to the completeness or accuracy thereof, and information is supplied upon the express condition that the persons receiving the information will be required to make their own determination as to its suitability for their purposes prior to use. In no event will BVV be responsible for any damages of any nature whatsoever resulting from the use of, reliance upon, or the misuse of this information. User assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY OTHER NATURE, ARE MADE BY BVV HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS. The information as supplied herein is simply to be informative and intended solely to alert the user of the substance which is the subject matter of this SDS. The ultimate compliance with federal, state or local regulations concerning the use of this compound, or compliance with respect to product liability, rests solely upon the purchaser thereof. This information relates to the material designated and may not be valid for such material used in combination with any other materials nor in any process.