



**Material Safety Data Sheet**  
**Methyl red, 0.02% in methanol**

**Section 1 - Chemical Product and Company Identification**

**MSDS Name:**

Methyl red, 0.02% in methanol

**Catalog Numbers:**

LC17100

**Synonyms:****Company Identification:**

LabChem, Inc.  
 200 William Pitt Way  
 Pittsburgh, PA 15238

**Company Phone Number:**

(412) 826-5230

**Emergency Phone Number:**

(800) 424-9300

**CHEMTREC Phone Number:**

(800) 424-9300

**Section 2 - Composition, Information on Ingredients**

CAS#	Chemical Name:	Percent
67-56-1	Methyl alcohol	balance
845-10-3	Methyl red	0.02

**Section 3 - Hazards Identification**

**EMERGENCY OVERVIEW**

*Appearance: orange*

*Warning! Flammable liquid. Keep away from heat, sparks, and flame. May cause skin irritation. May cause digestive tract irritation. May cause eye irritation. May cause blindness if swallowed. Flash Point: 52°F.*

*Target Organs: none known.*

**Potential Health Effects****Eye:**

Eye contact may result in corneal lesions, vision loss or impairment, pain or blindness. 5 ppm and 40mg reported to cause moderate irritation.

**Skin:**

Skin contact can result in defatting, mild dermatitis.



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**Ingestion:**

May be fatal or cause blindness if swallowed.

**Inhalation:**

May cause liver and kidney damage. Inhalation or ingestion causes narcotic intoxication leading to headache, cramps, severe pain and blindness. Kidney and liver damage may occur with possible heart or respiratory failure to coma and death. Some symptoms may be delayed for days.

**Chronic:**

Methanol -- blurred or painful vision, conjunctivitis; possible mutagenic or reproductive effects.

## Section 4 - First Aid Measures

**Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

**Skin:**

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

**Ingestion:**

Induce vomiting (touch finger to back of throat) keeping head lower than hips (prevent aspiration into lungs). GET MEDICAL ATTENTION IMMEDIATELY. Give sodium bicarbonate (baking soda), 2 teaspoons in glass of water.

**Inhalation:**

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

**Notes to Physician:**

Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:**

Vapors heavier than air, may travel considerable distance and flash back from source of ignition. Flammable liquid is poisonous - wear respiratory gear. Use flooding quantities of water as fog (streams may spread fire), cool all containers. Dangerous fire/negligible explosion hazard when exposed to heat or flame. Hazardous reactions with strong oxidizers. Vapor-air mixtures explosive.

**Extinguishing Media:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Autoignition Temperature:**

725°F ( 385.00°C)

**Flash Point:**

52°F ( 11.11°C)

**NFPA Rating:**

CAS # 67-56-1 health-1; flammability-3; reactivity-0

CAS# 845-10-3: Not published.

**Explosion Limits:**

Lower: 6.7      Upper: 36



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### Section 6 - Accidental Release Measures

#### General Information:

Use proper personal protective equipment as indicated in Section 8.

#### Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. Shut off ignition source, avoid vapors. Isolate, ventilate spill area. Keep out of sewers/drains. Label reclaimed spill material as flammable.

### Section 7 - Handling and Storage

#### Handling:

Wash thoroughly after handling. Ground and bond containers when transferring material. Avoid breathing dust, vapor, mist, or gas. Keep away from flames and other sources of high temperatures that may cause material to form vapors or mists.

#### Storage:

Keep away from heat, sparks, and flame. Store capped at room temperature.

### Section 8 - Exposure Controls, Personal Protection

#### Engineering Controls:

Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Ventilation equipment must be explosion-proof.

#### Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Methyl alcohol	200 ppm TWA; 250 ppm STEL; skin - potential for cutaneous absorption	200 ppm TWA; 260 mg/m <sup>3</sup> TWA	200 ppm TWA; 260 mg/m <sup>3</sup> TWA;
Methyl red	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

#### OSHA Vacated PELs

Methyl alcohol: 200 ppm TWA; 260 mg/m<sup>3</sup> TWA

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### Personal Protective Equipment

#### Eyes:

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

#### Skin:

Wear appropriate protective gloves to prevent skin exposure.

#### Clothing:

Wear appropriate protective clothing to prevent skin exposure.



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#### Respirators:

Firefighting-- any self-contained breathing apparatus with full facepiece operated in pressure-demand mode. Use supplied air (SA) respirators or self-contained breathing apparatus (SCBA) at 2000ppm; SA or SCBA with Facepiece at 10,000ppm; above 10,000ppm use type C SAF in positive pressure/continuous flow mode; pos.press. SCBA for escape.

## Section 9 - Physical and Chemical Properties

**Physical State:** Clear liquid  
**Color:** orange  
**Odor:** alcohol-like  
**pH:** No information found.  
**Vapor Pressure:** 97 mm Hg @20C  
**Vapor Density:** 1.1  
**Evaporation Rate:** 5.9 (TTE), ether=1  
**Viscosity:** No information found.  
**Boiling Point:** 148°F ( 64.44°C)  
**Freezing/Melting Point:** -144°F ( -97.78°C)  
**Decomposition Temperature:** No information found.  
**Solubility in water:** Soluble.  
**Specific Gravity/Density:** 0.8  
**Molecular Formula:** No information found.  
**Molecular Weight:** No information found.

## Section 10 - Stability and Reactivity

#### Chemical Stability:

Stable under normal temperatures and pressures. Stable under normal temperatures and pressures up to boiling point.

#### Conditions to Avoid:

Incompatible materials, oxidizers.

#### Incompatibilities with Other Materials

Chromic anhydride, beryllium, bromine, cyanuric chloride, calcium carbide, magnesium, chloroform-sodium hydroxide.

#### Hazardous Decomposition Products

Carbon monoxide, carbon dioxide, formaldehyde.

#### Hazardous Polymerization

## Section 11 - Toxicological Information

#### RTECS:

CAS# 67-56-1: PC1400000.  
CAS# 845-10-3 unlisted.



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#### LD50/LC50:

CAS# 67-56-1:

Inhalation, rat: LC50 = 64000 ppm/4H

Oral, mouse: LD50 = 7300 mg/kg

Oral, rabbit: LD50 = 14200 mg/kg

Oral, rat: LD50 = 5628 mg/kg

Skin, rabbit: LD50 = 15800 mg/kg.

CAS# 845-10-3:

No information found.

#### Carcinogenicity:

CAS# 67-56-1: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 845-10-3: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

#### Epidemiology:

Eye, skin, and mucous membrane irritant; central nervous system depressant.

#### Teratogenicity:

#### Reproductive:

#### Mutagenicity

#### Neurotoxicity

## Section 12 - Ecological Information

No information found.

## Section 13 - Disposal Considerations

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

## Section 14 - Transport Information

### US DOT

**Shipping Name:** Flammable liquid, n.o.s.  
(Methanol)

**Hazard Class:** 3

**UN Number:** UN1993

**Packing Group:** PG II

## Section 15 - Regulatory Information

### US Federal

#### TSCA

CAS# 67-56-1 is listed on the TSCA Inventory.

CAS# 845-10-3 is listed on the TSCA Inventory.

#### SARA Reportable Quantities (RQ)

CAS# 67-56-1: final RQ = 5000 pounds (2270 kg)



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#### CERCLA/SARA Section 313

This material contains Methyl alcohol (CAS# 67-56-1, balance%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

#### OSHA - Highly Hazardous

None of the components are on this list.

#### US State

##### State Right to Know

Methyl alcohol can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

##### California Regulations

#### European/International Regulations

##### Canadian DSL/NDSL

CAS# 67-56-1 is listed on Canada's DSL List.

CAS# 845-10-3 is listed on Canada's DSL List.

##### Canada Ingredient Disclosure List

CAS# 67-56-1 is listed on Canada's Ingredient Disclosure List.

CAS# 845-10-3 is not listed on Canada's Ingredient Disclosure List.

### Section 16 - Other Information

MSDS Creation Date: October 1, 1998

Revision Date: March 10, 2004

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