Section 1 - Chemical Product and Company Identification

MSDS Name:

Methanol and Methanol, 50% v/v

Catalog Numbers:

LC16800, LC16830

Synonyms:

methyl alcohol, wood alcohol

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
7732-18-5	Water (for 50% v/v solution)	balance
67-56-1	Methyl alcohol	50-100

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: colorless

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.(FlashPoint:52°F. - for LC16800)

Target Organs: none known.

Potential Health Effects

Eve:

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.



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) - LC16800 86°F (30°C) - LC16830

NFPA Rating:

CAS# 7732-18-5: Not published.

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

Explosion Limits:

Lower: 6.7 Upper: 36

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
Water (for 50% v/v solution)	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Methyl alcohol	200 ppm TWA;250 ppm STEL;skin - potential for cutaneous absorption	200 ppm TWA; 260 mg/m3 TWA	200 ppm TWA; 260 mg/m3 TWA;

OSHA Vacated PELs

Methyl alcohol: 200 ppm TWA; 260 mg/m3 TWA

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.



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: colorless

Odor: alcohol-like

pH: No information found.

Vapor Pressure: 97 mm Hg @20°C

Vapor Density: 1.1

Evaporation Rate: (ether=1) 5.9 (TTE) **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 up to boiling point.

Conditions to Avoid:

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

Has not been reported

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000. CAS# 67-56-1: PC1400000.



LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = 90 mL/kg.

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.

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65. CAS# 67-56-1: 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

51 - 100% V/V Methanol 5 - 50% V/V Methanol

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

Hazard Class: 3

UN Number: UN1230 UN1993
Packing Group: PG II PGIII

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 7732-18-5 is listed on the TSCA Inventory. CAS# 67-56-1 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ)

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



CERCLA/SARA Section 313

This material contains Methyl alcohol (CAS# 67-56-1, 50-100%), 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# 7732-18-5 is listed on Canada's DSL List. CAS# 67-56-1 is listed on Canada's DSL List.

Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List. CAS# 67-56-1 is listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: May 5, 1998 Revision Date: February 19,2004

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