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## Material Safety Data Sheet Methyl Alcohol

ACC# 14280

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Methyl Alcohol

**Catalog Numbers:** S75959, S75965, S75965A, S75965HPLC, S75965SPEC,  
A142RS200, A33F-1GAL, A408 1, A408 4, A408-1, A408-4, A4081, A4084,  
A408SK 4, A408SK-4, A408SK4, A411 20, A411 4, A411-20, A411-4, A41120,  
A4114, A412 1, A412 20, A412 20 001, A412 200, A412 4, A412 500,  
A412-1, A412-20, A412-200, A412-4, A412-500, A41200LC, A4121, A41220,  
A41220 001, A412200, A41220001, A41220003, A41220005, A412200LC,  
A41220LC, A4124, A4124LC, A412500, A412500002, A412500LC,  
A412CU1300, A412FB115, A412FB19, A412FB200, A412FB50, A412J500,  
A412LC, A412P 4, A412P-4, A412P4, A412P4LC, A412RB115, A412RB19,  
A412RB200, A412RB50, A412RS115, A412RS200, A412RS28, A412RS50,  
A412SK 4, A412SK-4, A412SK4, A412SS 115, A412SS-11, A412SS-115,  
A412SS-20, A412SS-200, A412SS-30, A412SS-50, A412SS115, A412SS50,  
A413-20, A413-4, A413-500, A413200, A4134, A413500, A433P 4, A433P-4,  
A433P4, A433S 20, A433S 200, A433S 4, A433S-20, A433S-200, A433S-4,  
A433S20, A433S200, A433S20001, A433S4, A434 20, A434-20, A43420,  
A450 4, A450-4, A4504, A4504LOT011, A4504LOT012, A452 1, A452 4, A452  
SS115, A452-1, A452-4, A4521, A4524, A4524LC, A452J1, A452RS200,  
A452RS28, A452RS50, A452SK 1, A452SK 4, A452SK-1, A452SK-4,  
A452SK1, A452SK4, A452SS 200, A452SS 50, A452SS-11, A452SS-115,  
A452SS-20, A452SS-200, A452SS-30, A452SS-50, A452SS115, A452SS200,  
A452SS28, A452SS50, A453 1, A453 500, A453 500 001, A453 500 002,  
A453 500 003, A453-500, A4531, A4531LC, A4531LOT001, A453500,  
A453500 001, A453500 002, A453500 003, A453500 004, A453500001,  
A453500002, A453500003, A453500004, A453500005, A453J1, A454 1,  
A454 4, A454 SS115, A454 SS30, A454 SS50, A454-1, A454-4, A4541,  
A4541LC, A4544, A4544LC, A4544LOT012, A4544LOT014, A45450%SS-115,  
A454RS115, A454RS200, A454RS28, A454RS50, A454SS 200, A454SS115,

A454SS200, A454SS28, A454SS30, A454SS50, A457 4, A4574, A497RS28, A52RS28, A52RS50, A54RS115, A54RS200, A54RS28, A54RS50, A935 4, A935-4, A9354, A936-1, A936-4, A947 4, A947-4, A9474, A9474LC, A9474LOT002, A947RS115, A947RS200, A947RS28, A947SS115, A947SS200, A947SS28, A947SS50, BP1105 1, BP1105 4, BP1105-1, BP1105-4, BP11051, BP11054, BP1105SS115, BP1105SS200, BP1105SS28, BP1105SS50, BPA947RS-115, BPA947RS-200, BPA947RS-28, FLA412RS-115, FLA412RS-200, FLA412RS-28, FLA412RS-50, FLA452RS-115, FLA452RS-28, FLA452RS-50, FLA454RS-115, FLA454RS-200, FLA454RS-28, FLA454RS-50, HC 400 1GAL, HC400 1GAL, HC4001GAL, IEAA453500A, NC9475554, NC9500047, NC9548094, SC95 1, SC951, SW2 1, SW21, TIA9474, TIA947P200, TIA947P200L, XXA45220LI

**Synonyms:** Carbinol, methanol, methyl hydroxide, monohydroxymethane, pyroxylic spirit, wood alcohol, wood naptha, wood spirit.

**Company Identification:**

Fisher Scientific  
1 Reagent Lane  
Fairlawn, NJ 07410

**For information, call:** 201-796-7100

**Emergency Number:** 201-796-7100

**For CHEMTREC assistance, call:** 800-424-9300

**For International CHEMTREC assistance, call:** 703-527-3887

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

CAS#	Chemical Name	Percent	EINECS/ELINCS
67-56-1	Methyl alcohol	>99%	200-659-6

**Hazard Symbols:** T F

**Risk Phrases:** 11 23/25

**Section 3 - Hazards Identification**

**EMERGENCY OVERVIEW**

Appearance: clear, colorless. Flash Point: 12 deg C. **Danger!** **Flammable liquid.** Harmful if inhaled. This substance has caused adverse reproductive and fetal effects in animals. May cause central nervous system depression. May be absorbed through the skin. May cause kidney damage. **Poison!** May cause respiratory and digestive tract irritation. Cannot be made non-poisonous. Causes eye and skin irritation. May be fatal or cause blindness if swallowed.

**Target Organs:** Kidneys, central nervous system, liver, eyes.

**Potential Health Effects**

**Eye:** Causes moderate eye irritation. Vapors may cause eye irritation. May cause painful sensitization to light.

**Skin:** May cause skin irritation. May be absorbed through the skin in harmful amounts.

**Ingestion:** May cause irritation of the digestive tract. 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. May cause kidney failure.

**Inhalation:** May cause respiratory tract irritation. May cause liver and kidney damage. May cause adverse central nervous system effects including headache, convulsions, and possible death. May cause visual impairment and possible permanent blindness. May cause effects similar to those described for ingestion.

**Chronic:** Prolonged or repeated skin contact may cause dermatitis. Chronic inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion.

#### Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid immediately. Do NOT allow victim to rub or keep eyes closed.

**Skin:** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately. Induce vomiting by giving one teaspoon of Syrup of Ipecac.

**Inhalation:** Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Notes to Physician:** Effects may be delayed. Ethanol may inhibit methanol metabolism.

**Antidote:** No specific antidote exists.

#### Section 5 - Firefighting Measures

**General Information:** Containers can build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint.

**Extinguishing Media:** For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective.

**Autoignition Temperature:** 455 deg C (851.00 deg F)

**Flash Point:** 12 deg C (53.60 deg F)(estimated) Health: ; Flammability: ;

Reactivity: Explosion Limits, Lower: 6.00 vol % Upper: 31.00 vol %

#### Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as

indicated in Section 8.

**Spills/Leaks:** Scoop up with a nonsparking tool, then place into a suitable container for disposal. Use water spray to disperse the gas/vapor. Remove all sources of ignition. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite.

### Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Do not get on skin or in eyes. Do not ingest or inhale. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

**Storage:** Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

#### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Methyl alcohol	200 ppm ; 262 mg/m <sup>3</sup> ; 250 ppm STEL; 328 mg/m <sup>3</sup> STEL; skin - potential for cutaneous absorption	200 ppm TWA; 260 mg/m <sup>3</sup> TWA 6000 ppm IDLH	200 ppm TWA; 260 mg/m <sup>3</sup> TWA

**OSHA Vacated PELs:** Methyl alcohol: 200 ppm TWA; 260 mg/m<sup>3</sup> TWA

#### Personal Protective Equipment

**Eyes:** 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:** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

### Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** clear, colorless

**Odor:** alcohol-like - weak odor  
**pH:** Not available.  
**Vapor Pressure:** 96 mm Hg  
**Vapor Density:** 1.1 (Air=1)  
**Evaporation Rate:**  
**Viscosity:** 0.55 cP 20 deg  
**Boiling Point:** 64.7760.00 deg C  
**Freezing/Melting Point:**-98 deg C  
**Decomposition Temperature:**Not available.  
**Solubility:** miscible  
**Specific Gravity/Density:**.7910g/cm3  
**Molecular Formula:**CH4O  
**Molecular Weight:**

### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Conditions to Avoid:** High temperatures, incompatible materials, ignition sources.

**Incompatibilities with Other Materials:** Oxidants (such as barium perchlorate, bromine, chlorine, hydrogen peroxide, lead perchlorate, perchloric acid, sodium hypochlorite). Active metals (such as potassium and magnesium). Substance is also incompatible with specific chemicals including: acetyl bromide, alkyl aluminum salts, beryllium dihydride, carbon tetrachloride + metals, chloroform + heat, chloroform + sodium hydroxide, cyanuric chloride, diethyl zinc, nitric acid, and potassium tertbutoxide. Please refer to the NFPA Fire Protection Guide for all specifics.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, formaldehyde.

**Hazardous Polymerization:** Has not been reported.

### Section 11 - Toxicological Information

**RTECS#:**

**CAS#** 67-56-1: PC1400000

**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;

**Carcinogenicity:**

**CAS#** 67-56-1: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**Epidemiology:** No information available.

**Teratogenicity:** Effects on Newborn: behavioral, orl-rat TDLo=7500 mg/kg.

Embryo or Fetus: fetotoxicity, TCLo=10000 ppm/7H Specific Developmental Abnormalities: cardiovascular, musculoskeletal, urogenital, TCLo=20000 ppm/7H.

**Reproductive Effects:** Paternal Effects: spermatogenesis, ipr-mouse TDLo=5 g/kg.

**Neurotoxicity:** No information available.

**Mutagenicity:** DNA Damage: orl-rat 10 umol/kg. DNA Inhibition: human lymphocyte 300 mmol/L. Microbial Mutation w/o S9: *S. cerevisiae* 12 pph.  
**Other Studies:** None.

### Section 12 - Ecological Information

**Ecotoxicity:** Goldfish (fresh water), 250 ppm/11H, death. Aquatic toxicity rating: TLm 96 >1000 ppm.

**Environmental Fate:** No information reported.

**Physical/Chemical:** No information available.

**Other:** None.

### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

**RCRA D-Series Maximum Concentration of Contaminants:** None listed.

**RCRA D-Series Chronic Toxicity Reference Levels:** None listed.

**RCRA F-Series:** None listed.

**RCRA P-Series:** None listed.

**RCRA U-Series:** CAS# 67-56-1: waste number U154 (Ignitable waste).

### Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IMO	Can T
<b>Shipping Name:</b>	METHANOL	No information available.	No information available.	No information available. METHANOL	
<b>Hazard Class:</b>	3			3(6.1)	
<b>UN Number:</b>	UN1230			UN1230	
<b>Packing Group:</b>	II			II	
<b>Additional Info:</b>				FLASHPOINT 11 C	

### Section 15 - Regulatory Information

#### US FEDERAL

##### TSCA

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

##### Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

##### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b**

None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

**SARA****Section 302 (RQ)**

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

**Section 302 (TPQ)**

None of the chemicals in this product have a TPQ.

**SARA Codes**

CAS # 67-56-1: acute, flammable.

**Section 313**

This material contains Methyl alcohol (CAS# 67-56-1, 99%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

**Clean Air Act:**

CAS# 67-56-1 is listed as a hazardous air pollutant (HAP). This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

**Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**

CAS# 67-56-1 can be found on the following state right to know lists:

California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California No Significant Risk Level: None of the chemicals in this product are listed.

**European/International Regulations****European Labeling in Accordance with EC Directives****Hazard Symbols:**

T F

**Risk Phrases:**

R 11 Highly flammable. R 23/25 Toxic by inhalation and if swallowed.

**Safety Phrases:**

S 16 Keep away from sources of ignition - No smoking. S 24 Avoid contact with skin. S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S 7 Keep container tightly closed.

**WGK (Water Danger/Protection)**

CAS# 67-56-1: 1

**Canada**

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

This product has a WHMIS classification of B2, D1A, D2B.

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

**Exposure Limits**

CAS# 67-56-1: OEL-ARAB Republic of Egypt:TWA 200 ppm (260 mg/m<sup>3</sup>);Skin n OEL-AUSTRALIA:TWA 200 ppm (260 mg/m<sup>3</sup>);STEL 250 ppm;Skin

OEL-BELGIU

M:TWA 200 ppm (262 mg/m<sup>3</sup>);STEL 250 ppm;Skin

OEL-CZECHOSLOVAKIA:TWA 10

0 mg/m<sup>3</sup>;STEL 500 mg/m<sup>3</sup> OEL-DENMARK:TWA 200 ppm (260 mg/m<sup>3</sup>);Skin OEL-

FINLAND:TWA 200 ppm (260 mg/m<sup>3</sup>);STEL 250 ppm;Skin OEL-FRANCE:TWA

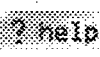
200  
ppm (260 mg/m<sup>3</sup>);STEL 1000 ppm (1300 mg/m<sup>3</sup>) OEL-GERMANY:TWA 200  
ppm (2  
60 mg/m<sup>3</sup>);Skin OEL-HUNGARY:TWA 50 mg/m<sup>3</sup>;STEL 100 mg/m<sup>3</sup>;Skin JAN9  
OEL  
-JAPAN:TWA 200 ppm (260 mg/m<sup>3</sup>);Skin OEL-THE NETHERLANDS:TWA 200  
ppm (  
260 mg/m<sup>3</sup>);Skin OEL-THE PHILIPPINES:TWA 200 ppm (260 mg/m<sup>3</sup>)  
OEL-POLA  
ND:TWA 100 mg/m<sup>3</sup> OEL-RUSSIA:TWA 200 ppm;STEL 5 mg/m<sup>3</sup>;Skin  
OEL-SWEDEN  
:TWA 200 ppm (250 mg/m<sup>3</sup>);STEL 250 ppm (350 mg/m<sup>3</sup>);Skin  
OEL-SWITZERLAN  
D:TWA 200 ppm (260 mg/m<sup>3</sup>);STEL 400 ppm;Skin OEL-THAILAND:TWA 200  
ppm  
(260 mg/m<sup>3</sup>) OEL-TURKEY:TWA 200 ppm (260 mg/m<sup>3</sup>) OEL-UNITED  
KINGDOM:TW  
A 200 ppm (260 mg/m<sup>3</sup>);STEL 250 ppm;Skin OEL IN BULGARIA, COLOMBIA,  
JO  
RDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE,  
VIETNAM ch  
eck ACGI TLV

### Section 16 - Additional Information

**MSDS Creation Date:** 3/14/1995

**Revision #39 Date:** 12/12/1997

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