

# Material Safety Data Sheet

## Freeman Alcohol Solvent

Date of Preparation: January 3, 2007

Revision:

### Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Freeman Alcohol Solvent

**Chemical Formula:** N/A

**CAS Number:** 67-56-1

**Other Designations:** N/A

**Manufacturer:** Freeman Manufacturing and Supply Company, 1101 Moore Road, Avon, OH 44011,  
Phone (440)934-1902, FAX (440)934-7200, Hours of Operation 8-5, Emergency Phone Number 800-424-9300.

<b>HMIS</b>
<b>H</b> 3
<b>F</b> 3
<b>R</b> 0
<b>PPE</b> †
†Sec. 8

### ☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Flammable, Ingestion

### Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
Methyl Alcohol	67-56-1	100

Ingredient	OSHA PEL		ACGIH TLV		Vapor Pressure
	TWA	STEL	TWA	STEL	
Methyl Alcohol	200ppm Skin	250 ppm Skin	200 ppm Skin	250 ppm Skin	98 mm Hg @ 68°F

### Section 3 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance and Odor:** Clear, Mobile, Colorless / Mild  
alcohol odor

**Viscosity:** 0.6 cps

**Vapor Pressure:** 97.68 mm Hg at 68 °F (20 °C)

**Vapor Density (Air=1):** 1.11

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 0.792

**Water Solubility:** Complete

**Boiling Point:** 147°F (63.8°C) at 760 mmHg

**Freezing/Melting Point:** -144°F (-97.7°C)

**% Volatile:** 100

**Evaporation Rate (N-Butyl Acetate = 1) :** 2.1

**VOC:** 100%; 795 g/l; 6.63 lbs/gal

### Section 4 - Fire-Fighting Measures

**Flash Point:** 54 °F (12.2°C)

**Flash Point Method:** TCC

**Autoignition Temperature:** 725 °F (385 °C)

**LEL:** 6.0% v/v

**UEL:** 36.0% v/v

**Hazardous Products of Combustion:** May form carbon dioxide and carbon monoxide.

**Fire and Explosion Hazards:** Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

**Extinguishing Media:** Alcohol foam, carbon dioxide, dry chemical.



**Fire Fighting Instructions:** Water may be ineffective. Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this

MSDS.

## Section 5 - Stability and Reactivity

**Stability:** Stable.

**Hazardous Polymerization:** Product will not undergo hazardous polymerization.

**Incompatibility:** Avoid contact with: calcium hypochlorite, sodium, strong acids, strong oxidizing agents, zinc.

**Hazardous Decomposition Products:** May form carbon dioxide and carbon monoxide.

## Section 6 - Health Hazard Information

### Potential Health Effects

**Routes of Entry:** Eye contact, skin contact, inhalation, ingestion, skin absorption.

**Eye:** Contact may cause mild eye irritation. Symptoms include stinging, tearing, and redness.

**Skin:** May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns. Passage of this material into the body through the skin is possible, and may add to toxic effects from breathing or swallowing.

**Swallowing:** Swallowing this material may be harmful.

**Inhalation:** Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 2).

**Symptoms of Exposure:** Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), leg cramps, pain in the abdomen and lower back, blurred vision, shortness of breath, cyanosis (causes blue coloring of the skin and nails from lack of oxygen), visual impairment (including blindness), coma, and death.

**Target Organ Effects:** Exposure to lethal concentrations of methanol has been shown to cause damage to organs including liver, kidneys, pancreas, heart, lungs and brain.

**Developmental Information:** Methanol has caused birth defects in laboratory animals, but only when inhaled at extremely high vapor concentrations. The relevance of this finding to humans is uncertain.

**Cancer Information:** This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.

**Other Health Effects:** No data.

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### Emergency and First Aid Procedures

**Eye Contact:** If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

**Skin Contact:** Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

**Swallowing:** Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left hand side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

**Inhalation:** If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

## Section 7 - Spill, Leak, and Disposal Procedures

**Small Spill:** Absorb liquid on vermiculite, floor absorbent or other absorbent material.

**Large Spill:** Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

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**Revision:****Freeman Alcohol Solvent****Toxicological Information:**

No data

**Ecological Information:**

No data

**Disposal Considerations:****Waste Management Information**

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs – including disposal, recycling and waste stream reduction, contact Ashland Distribution Company, IC&S Environmental Services Group at 800-637-7922.

**Regulatory Information:****US Federal Regulations****TSCA (Toxic Substances Control Act) Status**

TSCA (United States) : The intentional ingredients of this product are listed.

**CERCLA RQ - 40 CFR 302.4(a)**

Component	RQ (lbs)
METHYL ALCOHOL	5000

**SARA 302 Components - 40 CFR 355 Appendix A**

None

**Section 311/312 Hazard Class - 40 CFR 370.2**

Immediate (x) Delayed(x) Fire(x) Reactive( ) Sudden Release of Pressure( )

**SARA 313 Components - 40 CFR 372.65**

Section 313 Component(s)	CAS Number	%
METHANOL	67-56-1	100

**International Regulations****Inventory Status**

AICS (AUSTRALIA) The intentional ingredients of this product are listed.  
 DSL (CANADA) The intentional ingredients of this product are listed.  
 ECL (SOUTH KOREA) The intentional ingredients of this product are listed.  
 EINECS (EUROPE) The intentional ingredients of this product are listed.  
 ENCS (JAPAN) The intentional ingredients of this product are listed.  
 IECSC (CHINA) The intentional ingredients of this product are listed.  
 PICCS (PHILIPPINES) The intentional ingredients of this product are listed.

**State and Local Regulations****California Proposition 65**

None

**Listed on the following states Right to Know List:** New Jersey, Pennsylvania, Massachusetts

**Section 8 - Exposure Controls / Personal Protection**

**Engineering Controls:** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

**Respiratory Protection:** If workplace exposure limit (s) of product or any component is exceeded (see exposure guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

**Skin Protection:** Wear resistant gloves (consult your safety equipment supplier. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**Eye Protection:** Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other types of safety glasses. Consult your safety representative.

## Section 9 - Special Precautions and Comments

### Handling and Storage

**Handling:** Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. All five-gallon pails and larger metal containers, including tank cars and tank trucks, should be grounded and/or bonded when material is transferred.

**Warning:** Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignition without the presence of obvious ignition sources.

**Storage Procedures:** Store away from all sources of ignition. Store away from all incompatible materials. Ensure that the storage area is adequately ventilated and equipped with proper emergency response equipment in the event of leak, spill or fire. Observe all federal, state, and local regulations when storing this product.

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### DOT Transportation Data (49 CFR 172.101):

**Shipping Name:** Methanol

**Shipping Symbols:**

**Hazard Class:** 3

**ID No.:** UN 1230

**Packing Group:** II

**Label:** Flammable Liquid

**Special Provisions (172.102):**

**DOT Description:**

Methanol, 3, UN1230, PG II

#### Packaging Authorizations

a) Exceptions:

b) Non-bulk Packaging:

c) Bulk Packaging:

**IATA:** Class 3 (6.1)

**European Class:** Flammable Liquid

**IMQ/IMDG:** 3.2 (6.1)

**Container /Mode:** 55 GAL

Drum/Truck Package

#### Other Transportation Information:

The DOT Transport Information may vary with the container and mode of shipment.

#### Quantity Limitations

a) Passenger, Aircraft, or Railcar:

b) Cargo Aircraft Only:

#### Vessel Stowage Requirements

a) Vessel Stowage:

b) Other:

**NOS Component:** None

#### RQ (Reportable Quantity) – 49 CFR 172.101

Product Quantity (lbs)	Component
5000	METHANOL

**Disclaimer:** The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.