

Safety Data Sheet
According to the (US) Hazard Communication Standard (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Methyl Alcohol, Anhydrous, ACS	
NCL Catalog Number	M-29	
Product Description	Laboratory chemical	
Manufacturer	EMD Chemicals Inc.	PO Box 70, 480 Democrat Road Gibbstown, NJ 08027
Supplier	NCL of Wisconsin, Inc. Telephone: 1-800-648-7836 Email: nclabs@nclabs.com	PO Box 8, Birnamwood, WI 54414 Fax: 715-449-2454 Emergency Contact: 1-800-424-9300 (Chemtrec)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture
GHS Classification

Flammable Liquids	Category 2
Acute Toxicity	Oral Category 3
Acute Toxicity	Dermal Category 3
Acute Toxicity	Inhalation Category 3
Specific Target Organ Toxicity	Single Exposure Category 1



Signal Word Danger

Hazard Statements

H225	Highly flammable liquid and vapor.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.
H370	Causes damage to organs.

Precautionary Statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe mist/vapors/spray.
P264	Wash exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call POISON CENTER or doctor.
P330	Rinse mouth.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P312	Call a POISON CENTER or doctor if you feel unwell.
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P311	Call a POISON CENTER or doctor.
P308+P311	IF exposed or concerned: Call a POISON CENTER or doctor.

P370+P378
P403+P235
P405
P501

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container to comply with local, state and federal regulations.

Other Hazards Not Contributing to the Classification

None under normal conditions.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity CH₄O
Common Name Methanol

Substance

Name	CAS #	Approximate %
Methanol	67-56-1	100

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General First Aid Measures Never give anything by mouth to an unconscious person. Seek medical advice if you feel unwell.

If Inhaled Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor if you feel unwell.

In Case of Skin Contact Remove all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor if you feel unwell.

In Case of Eye Contact Rinse carefully with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor if you feel unwell.

If Swallowed Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell. Ingestion of large quantities: immediately take to the hospital.

Most Important Symptoms/Effects Acute and Delayed

No additional information.

Indication of Immediate Medical Attention and Special Treatment Needed

Seek medical attention if exposed.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media Alcohol resistant foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable Extinguishing Media Do not use a heavy water stream.

Special Hazards Arising from the Substance or Mixture Highly flammable. Gas/vapor flammable with air within explosion limits. May be ignited by sparks. Gas/vapors spreads at floor level.

Reactivity Upon combustion: CO and CO₂ are formed. Reacts violently with strong oxidizers. Violent to explosive reaction with some acids.

Special Protective Equipment and Precautions for Fire-Fighters Wear self-contained breathing apparatus and protective clothing. Cool tanks/drums with water spray/remove them to safety. Do not move the load if exposed to heat.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment (see section 8). Evacuate area of non-essential personnel. Eliminate ignition sources.

Environmental Precautions

Prevent entry to sewers and public waters. Keep upwind. Mark the danger area. Consider evacuation. Seal off low-lying areas. Close doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark and explosion proof appliances and lighting equipment. Keep containers closed. Wash contaminated clothing before reuse.

Methods and Materials for Containment and Cleaning Up

Collect spillage with inert absorbent material. Store away from other materials. Wash clothing/equipment after handling. Ensure compliance with federal, state and local regulations.

SECTION 7: HANDLING AND STORAGE

Handling and Storage

Precautions for Safe Handling

Avoid contact with eyes and skin. Avoid breathing vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Conditions for Safe Storage Including any Incompatibilities

Keep in original container tightly closed, stored in a cool, dry, ventilated area. Store away from sunlight, which can contribute to instability. Store away from: heat sources, ignition sources, oxidizing agents, strong acids, and metals. Fireproof storeroom. Meet legal requirements.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Methanol (67-56-1)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	250 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	260 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm

Appropriate Engineering Controls

Material should be handled or transferred in a fume hood or with equivalent ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

Individual Protection Measures

Skin Protection

Avoid all unnecessary exposure.

Protective gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.

Eye Protection

Use chemical safety goggles and /or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye-wash fountain and quick-drench facilities in work area.

Respiratory Protection

Wear appropriate mask.

Other Information

Do not eat, drink, or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	Colorless
Molecular Weight	32.05 g/mol
Odor	Alcohol odor
Odor Threshold	100 ppm
pH	Not determined
Melting Point/Freezing Point	-97.8° C
Initial Boiling Point and Boiling Range	64.5° C
Flash Point	12°C Closed Cup/15.85° C Open Cup
Evaporation Rate	2.1
Flammability (Solid, Gas)	Not determined
Upper/Lower Flammability/Explosive Limits	6% / 36.5%

Vapor Pressure	12.9 kPa
Vapor Density	1.11
Relative Density	0.792
Density	Not determined
Solubility	Soluble in water.
Partition Coefficient: n-octanol/water	Not determined
Auto-Ignition Temperature	464° C
Decomposition Temperature	Not determined
Viscosity	Not determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Highly flammable in the presence of open flames, sparks, static discharge, heat and oxidizing materials. Container explosion may occur under fire conditions or when heated. Vapor may travel considerable distance to source of ignition and flash back.
Chemical Stability	Stable under ordinary conditions of use and storage.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	Extremely high or low temperatures. Heat and sunlight can contribute to instability. Open flame, sparks, and over heating.
Incompatible Materials	Oxidizing agents, metals, and acids.
Hazardous Decomposition Products	Carbon dioxide and carbon monoxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

Methanol (67-56-1)	
LD50 oral rat	>5000 mg/kg
LD50 dermal rabbit	15800 mg/kg
LC50 inhalation rat (mg/l)	85 mg/l
LC50 inhalation rat (ppm)	64000 ppm/4h

Skin Corrosion/Irritation	Not classified
Serious Eye Damage/Irritation	Not classified
Respiratory or Skin Sensitization	Not classified
Germ Cell Mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive Toxicity	Not classified
Specific Target Organ Toxicity (Single Exposure)	Causes damage to organs.
Specific Target Organ Toxicity (Repeated Exposure)	Not classified
Aspiration Hazard	Not classified
Symptoms After Inhalation	Slight irritation.
Symptoms After Skin Contact	Slight irritation.
Symptoms After Eye Contact	Redness of the eye tissue.
Symptoms After Ingestion	Nausea and vomiting. Headache. Feeling of weakness. Abdominal, muscular pain. Central nervous system depression. Dizziness. Respiratory difficulties.
Potential Adverse Human Health Effects and Symptoms	Not classified

SECTION 12: ECOLOGICAL INFORMATION

Toxicity	Not applicable
Persistence and Degradability	Not applicable
Bioaccumulative Potential	Not applicable
Mobility in Soil	Not applicable
Other Adverse Effects	Not applicable

SECTION 13: DISPOSAL CONSIDERATIONS

Methods of Disposal

Disposal Recommendations	Dispose of contents/containers in accordance with local, state and federal regulations.
Ecology-Waste Materials	Avoid release to the surrounding environment.

SECTION 14: TRANSPORT INFORMATION

UN Number	1230
UN Shipping Name	Methanol
Transport Hazard Class(es)	3 – Flammable liquid
Packing Group	II
Environmental Hazards	Not applicable
Transport in Bulk	Not applicable
Special Precautions	Not applicable

SECTION 15: REGULATORY INFORMATION

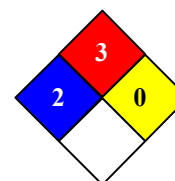
Methanol (67-56-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16: OTHER INFORMATION

Revision Date: 04/09/2015

NFPA Hazards

Health Hazard	2: Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury.
Fire Hazard	3: Liquids and solids that can be ignited under almost all ambient temperature conditions.
Reactivity/Instability	0: Normally stable, even under fire exposure conditions, and is not reactive with water.



HMIS III Rating

Health	2: Temporary or minor injury may occur.
Flammability	3: Materials capable of ignition under almost all normal temperature conditions.
Physical Hazard	0: Materials that are normally stable, even under fire conditions.
Personal Protection	H

M-29	
Health	2
Flammability	3
Physical Hazard	0
Personal Protection	H

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END OF SAFETY DATA SHEET