Safety Data Sheet

SECTION 1: Identification

Product Name Methanol, ACS Reagent, Absolute
(Methyl Alcohol, Anhydrous)

Other Identifiers Methyl Alcohol; Wood Alcohol; 84410-43, 84410-44

Recommended Uses General Laboratory Reagent/Chemical.

Uses Advised Against Not intended for drug, food or household use.

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SECTION 2: Hazard(s) Identification

Acute toxicity Oral (Category 3)
Acute toxicity Dermal (Category 3)
Acute toxicity Inhalation (Category 3)
Specific target organ toxicity, repeated exposure (Category 1)
Flammable liquids (Category 2)

Hazards not otherwise classified or covered by GHS

None identified.

Signal Word

DANGER

Hazard Statements

Toxic if swallowed, in contact with skin or if inhaled. Causes damage to organs through prolonged or repeated exposure. Highly flammable liquid and vapour.

Precautionary Statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. - No smoking. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take action to prevent static discharges. Do not breathe mist, vapors or spray. Wash areas of contact/exposure thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves and clothing and eye protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin/hair with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor. In case of fire: Use dry chemical, foam or carbon dioxide (CO2) for extinction. Store in a well-ventilated place. Store locked up. Dispose of contents/container in accordance with local, state, federal and international regulations.

SECTION 3: Composition / Information on Ingredients

Component Name	Component Number CAS	Component Number EC	Component Weight %
Methanol	67-56-1	200-659-6	100

SECTION 4: First-Aid Measures

General Advice	Show this SDS to attending physician if medical treatment is needed.
Skin Contact	Immediately flush affected area with plenty of water while removing contaminated clothing . Seek medical attention if you are concerned or feel unwell.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. If irritation persists, seek medical attention.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or physician. Ensure that the patient/victim has an unobstructed airway. If shortness of breath occurs or breathing is difficult, administer oxygen. If breathing has ceased provide artificial respiration. Always use a barrier or bag-valve-mask device. DO NOT GIVE MOUTH-TO-MOUTH RESPIRATION.
Ingestion	Immediately call a poison center or physician. Induce vomiting only if advised by medical personnel to do so. Keep victim at rest in a comfortable position for breathing.
Symptoms/effects	The most important known symptoms/effects are described in Section 2 of this Safety Data Sheet.
Treatment	Treat symptomatically.

SECTION 5: Fire-Fighting Measures

Extinguishing Media	Use water, carbon dioxide, foam, dry chemical or sand/earth to extinguish.
Specific Hazards	Thermal decomposition may produce toxic or irritating fumes.
Actions for Firefighters	Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Use water spray to cool containers.

SECTION 6: Accidental Release Measures

Precautions and Procedures	Remove all sources of ignition. Vapors can accumulate. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate unprotected personnel to safe areas. Keep people away from and upwind of spill/leak.
Environmental Precautions	As with any chemical, avoid release to the environment for the responsible stewardship of our planet.
Containment and Clean Up	Remove all sources of ignition. Have fire extinguishing agent available. Use only non-sparking tools and explosion-proof equipment. Wear respiratory protection, gloves, eye protection and protective clothing. Contain and absorb with inert absorbent material or vacuum up spillage and collect in suitable lidded container for disposal.

Section 7: Handling and Storage

Handling	Follow good hygiene procedures when handling chemical materials. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use personal items when handling this substance. Wear chemical resistant gloves, protective clothing and eye protection when handling this substance, as well as any other PPE recommended in any section of this SDS. Ground or bond containers. Use only non-sparking tools and explosion-proof equipment. Ensure adequate ventilation and absence of ignition sources.
Storage	Keep containers tightly closed in a cool and well-ventilated place. Avoid storage near heat, ignition sources or open flame. Protect from physical damage. Store separately from incompatible materials. Store locked up.

Section 8: Exposure Controls / Personal Protection

Engineering Controls	As part of safe chemical handling, emergency eye wash fountains and safety showers should be available in handling areas. Provide sufficient ventilation measures to keep the airborne concentration below the applicable workplace exposure limits.
Exposure Limits	Methyl alcohol PEL-TWA 260 mg/m³ US-OSHA
Exposure Limits	Methyl alcohol REL-TWA 200 ppm US-NIOSH
Exposure Limits	Methyl alcohol TLV-TWA 200 ppm US-ACGIH
Exposure Limits	Methyl alcohol REL-STEL 250 ppm US-NIOSH
Exposure Limits	Methyl alcohol TLV-STEL 250 ppm US-ACGIH
Eye Protection	Wear safety glasses with side shields or safety goggles. Wear face shield if there is risk of splashes.
Skin Protection	Wear chemical resistant gloves and protective clothing.
Respiratory Protection	Where exposure limits are exceeded and cannot be adequately controlled by other engineering means (such as a chemical fume hood), wear respiratory protection.

Section 9: Physical and Chemical Properties

Physical State	Liquid
Appearance/Color	Colorless
Odor	slight, alcohol-like
Odor Threshold	As low as 13 ppm
Melting/Freezing Point	-98°C
Boiling Point/Range	64.7°C
Flammability	Flammable
Flammable/Explosive Limits	6 - 36%
Flash Point	11°C
Auto-Ignition Temperature	464°C
Decomposition Temperature	Data not available
pH	Data not available
Viscosity	0.544 mPa sec at 25°C
Solubility (in water)	Miscible at 20°C
Partition Coefficient (n-octanol/water)	-0.77
Relative Density	.7866
Vapor Pressure	128 hPa at 20°C
Vapor Density	1.1
Evaporation Rate	2.1 (butyl acetate = 1)
Particle Characteristics	Not applicable.

Section 10: Stability and Reactivity

Reactivity	Reacts violently with acetyl bromide, sulfuric acid and hydrogen peroxide.
Chemical Stability	Stable under normal conditions of handling and storage.
Hazardous Reactions	Based on available data, no reaction hazards have been identified that would occur during normal handling and storage.
Conditions to Avoid	Avoid contact with incompatible materials. Avoid breathing mist or vapors. Keep away from heat, sparks and open flame.
Incompatible Materials	Acetyl bromide, hydrogen peroxide, sulfuric acid, isocyanates + caustics, bromine, anhydrous lead perchlorate, acid chlorides, acid anhydrides, oxidizing agents, reducing agents, alkali metals.
Hazardous Decomposition	Thermal decomposition can produce carbon oxides.

Section 11: Toxicological Information

Acute Toxicity - Oral	LD50 (rat) 5600 mg/kg
Acute Toxicity - Dermal	LD50 (rabbit) 15800 mg/kg
Acute Toxicity - Inhalation	LC50 (rat) 64000 ppm/4H
Skin Corrosion/Irritation	Toxic in contact with skin.
Eye Damage/Irritation	This material is not expected to cause eye damage or irritation under normal usage conditions.
Respiratory Sensitization	Not expected to cause respiratory sensitization.
Skin Sensitization	Not expected to cause skin sensitization.
Germ Cell Mutagenicity	Based on available data, this substance does not meet the criteria set forth for classification as causing germ cell mutagenicity.
Carcinogenicity	This material has not been identified as a carcinogen by IARC or NTP.
Reproductive Toxicity	Based on available data, this substance does not meet the criteria set forth for classification as a reproductive toxin.
STOT Single Exposure	None known.
STOT Repeated Exposure	Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the central nervous system. This may result in persistent or recurring headaches and impaired vision.
Aspiration Hazard	This substance is not considered to be an aspiration hazard.
Other Information	No additional information available.

Safety Data Sheet

Section 12: Ecological Information

Toxicity Values	LC50 (Pimephales promelas) 28100 mg/L/96H
Persistence/Biodegradability	Data is not available for this substance that does not meet the criteria of ecotoxin.
Bioaccumlation Potential	BCF values are <10, suggesting that bioaccumulation is low.
Mobility in Soil	Expected to have a very high mobility based upon a measured Koc of 2.75.
Other Adverse Effects	None known.

Section 13: Disposal Considerations

Discharge, treatment, or disposal may be subject to national, state, regional or local laws. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose in accordance with national, state, regional and local regulations.

Section 14: Transport Information

UN Number	UN1230
Proper Shipping Name, Hazard Class	METHANOL, 3 (6.1)
Packing Group	II
Marine Pollutant	No

Section 15: Regulatory Information

USA TSCA	On or in compliance with the inventory.
USA SARA 302/304	Methyl alcohol TPQ 10,000 lbs
USA SARA 311/312	Methyl alcohol TPQ 10,000 lbs; CERCLA RQ 5000 lbs
USA SARA 313 (TRI)	Methyl alcohol
Canada DSL/NDSL	On or in compliance with DSL.
California Proposition 65	This product contains a chemical on the list.

Section 16: Other Information

Acronyms

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
ATE	Acute Toxicity Estimate (calculated toxicity value)
BCF	Bioconcentration Factor
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (USA)
DOT	Department of Transportation (USA)
DSL	Domestic Substances List (Canada)
EHS	Extremely Hazardous Substance
EPA	Environmental Protection Agency (United States)
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
IDLH	Immediately Dangerous to Life and Health
NTP	National Toxicology Program (USA)
OSHA	Occupational Safety and Health Administration (USA)
PEL	Permissible Exposure Limit
PNOR	Particulates Not Otherwise Classified
PPE	Personal Protective Equipment
ppb	Parts per billion
ppm	Parts per million
RQ	Reportable Quantity
SARA	Superfund Amendments and Reauthorization Act (USA)
TLV	Threshold Limit Value
TPQ	Threshold Planning Quantity
TRI	Toxic Release Inventory (USA)
TSCA	Toxic Substances Control Act (USA)
TWA	Time Weighted Average
UN	United Nations

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This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: *product safety department*

Contact: *SPEX CertiPrep, LLC. 1-732-549-7144*