

**SECTION 1: Identification** 

Product Name Methanol, 50% v/v

Other Identifiers 84410-45

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

Flammable liquids (Category 3)

Specific target organ toxicity, single exposure (Category 1)

#### Hazards not otherwise classified or covered by GHS

None identified.

Signal Word

DANGER Hazard Statements

Flammable liquid and vapour. Causes damage to organs.

#### **Precautionary Statements**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. - No smoking. Keep container tightly closed. 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. Wear protective gloves and clothing and eye protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin/hair with water. IF exposed or concerned: Get emergency medical help immediately. In case of fire: Use dry chemical, foam or carbon dioxide (CO2) for extinction. Store in a well-ventilated place. Keep cool. 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 %
Methyl alcohol	67-56-1	200-659-6	44
Water	7732-18-5	231-791-2	Remainder



#### SECTION 4: First-Aid Measures

General Advice Show this SDS to attending physician if medical treatment is needed.

Skin Contact Immediately wash affected area with soap and water while removing contaminated clothing . Seek medical attention if there

is any evidence of skin damage or persistent irritation.

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. If breathing is difficult or labored, seek medical attention.

**Ingestion** Ingestion can cause permanent damage to the optic nerve.

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.

#### 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.

Methyl alcohol PEL-TWA 260 mg/m<sup>3</sup> **US-OSHA Exposure Limits US-NIOSH** Methyl alcohol **Exposure Limits** REL-TWA 200 ppm **Exposure Limits** Methyl alcohol TLV-TWA 200 ppm US-ACGIH Methyl alcohol **REL-STEL** 250 ppm **US-NIOSH Exposure Limits 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
 Alcohol-like

 Odor Threshold
 As low as 13 ppm

Melting/Freezing Point-43°CBoiling Point/Range77°C

Flammability Flammable

Flammable/Explosive Limits 6 - 36% (methanol)

Flash Point 27°C
Auto-Ignition Temperature 464°C

 Decomposition Temperature
 Data not available

 pH
 Data not available

 Viscosity
 Data not available

Solubility (in water) Miscible

Partition Coefficient (n-octanol/water) Data not available

Relative Density .928

 Vapor Pressure
 Data not available

 Vapor Density
 Data not available

 Evaporation Rate
 Data not available

 Particle Characteristics
 Not applicable.

## Section 10: Stability and Reactivity

Reactivity May react 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.

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

Incompatible Materials

Acute Toxicity - Oral ATE: 63,863 mg/kg

Acute Toxicity - Dermal ATE: 12,727 mg/kg

Acute Toxicity - Inhalation ATE: 145,454 mg/m³

Skin Corrosion/Irritation This material is not expected to cause skin irritation under normal conditions.

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 None known.

Aspiration Hazard This substance is not considered to be an aspiration hazard.

Other Information No additional information available.



#### Section 12: Ecological Information

Toxicity Values ATE: 63,863 mg/L

Persistence/Biodegradability Data is not available for this mixture of substances.

Bioaccumlation Potential Potential for bioaccumulation is low.

Mobility in Soil Expected to have very high mobility in soil.

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 UN1993

Proper Shipping Name, Hazard Class FLAMMABLE LIQUIDS, N.O.S. (METHANOL), 3

Packing Group

Marine Pollutant Not classified as a marine pollutant.

#### Section 15: Regulatory Information

**USA TSCA** All components are on or in compliance with the inventory.

USA SARA 302/304 Methyl alcohol, TPQ 4540 kg (10,000 lbs) RQ 2270 kg (5000 lbs)

USA SARA 311/312 Methyl alcohol
USA SARA 313 (TRI) Methyl alcohol

Canada DSL/NDSL All components are 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