Safety Data Sheet

Methyl Alcohol

Section 1. Identification

Product Identifier	Methyl Alcohol
Synonyms	MSD_SDS0202; MCHEM150
Manufacturer Stock Numbers	MCHEM150
Recommended use	N/A
Uses advised against	N/A

Manufacturer Contact Address

Medline
3 Lakes Drive
Northfield, IL, 60093
US

Phone	Emergency Phone	Fax
(800) 633-5463	(800) 424-9300 CHEMTREC	(847) 643-4436

Website
www.Medline.com

Section 2. Hazards Identification

Classification

ACUTE TOXICITY - DERMAL - Category 3
ACUTE TOXICITY - INHALATION - Category 3
ACUTE TOXICITY - ORAL - Category 3
CARCINOGENICITY - Category 2
FLAMMABLE LIQUIDS - Category 2
Reproductive toxicity - Category 2
SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 1

Signal Word: Danger

Pictogram

Hazard Statements

Highly flammable liquid and vapor
May cause damage to organs
Suspected of causing cancer
Suspected of damaging fertility or the unborn child.
Toxic if inhaled
Toxic if swallowed
Toxic in contact with skin

Precautionary Statements

Response

If exposed: Call a poison center/doctor/physician.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If swallowed: Immediately call a poison center/doctor/or a physician.
In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish.
Wash contaminated clothing before reuse.

Prevention

Do not breathe dust/fume/gas/mist/vapors/spray.
Do not eat, drink or smoke when using this product.
Do not handle until all safety precautions have been read and understood.
Ground/bond container and receiving equipment.
Keep away from heat, sparks, open flames and hot surfaces. No smoking.
Keep container tightly closed.
Obtain special instructions before use.
Take precautionary measures against static discharge.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Use only outdoors or in a well-ventilated area.
Use personal protective equipment as required.
Wash affected area thoroughly after handling.
Wear protective gloves/eye protection/face protection

Storage

Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal

Dispose of contents/container to an approved waste disposal plant.

Ingredients of unknown toxicity

0%

Hazards not Otherwise Classified

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to

0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or antici-pated carcinogen by NTP.

Section 3. Ingredients

CAS	Ingredient Name	Weight %
67-56-1	Methanol	90% - 100%

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

General advice:	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled:	If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
Skin Contact:	If on skin, rinse well with water. If on clothes, remove clothes.
Eye Contact:	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.
Unsuitable Extinguishing Media	High volume water jet.
Specific hazards during firefighting:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products:	No hazardous combustion products are known.
Specific extinguishing methods:	Use a water spray to cool fully closed containers.
Further information:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.
Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.

NFPA Flammable and Combustible Liquids Classification:	Flammable Liquid Class IB

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental precautions:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and Materials for Containment and Cleaning up:	Contain spillage, and then collect with non-combustible absobent material, (e.g. sand, earth, diatomaceous eatth, vermiculite) and place in container for disposal according to local/ national regulations (see section 13).

Section 7. Handling and Storage

Advice on safe handling:	Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Container may be opened only under exhaust ventilation hood. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage:	No smoking. Keep container tightly closed in a dry and well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits

Ingredient Name	ACGIH TLV	OSHA PEL	STEL
Methanol	TWA: 200 ppm BR STEL: 250 ppm	TWA: 200 ppm	N/A

Personal Protective Equipment	Goggles, Gloves
Respiratory protection:	No personal respiratory protective equipment normally required. In the case of vapor formation use a respirator with an approved filter.
Hand protection:	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection:	Eye wash bottle with pure water. Tightly fitting safety goggles.
Skin and body protection:	Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures:	Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Colorless. Clear
Odor	mild, alcohol-like
Odor Threshold	4.2 - 8940 ppm
Solubility	Completely miscible
Partition coefficient Water/n-octanol	log Pow:-0.82 - -0.66
VOC%	N/A
Viscosity	N.D.
Specific Gravity	N/A
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	11°C (52° F)
FP Method	N/A
pH	N.D.
Melting Point	N/A
Boiling Point	64°C (147°F)
Boiling Range	N.D.
LEL	6
UEL	36.5
Evaporation Rate	5.9 n-Butyl Acetate
Flammability	OSHA/NFPA Class 1B Flammable Liquid
Decomposition Temperature	N.D.
Auto-ignition Temperature	N/A
Vapor Pressure	96 mmHg @ 20°C (68 °F)
Vapor Density	1.1

Section 10. Stability and Reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical stability:	Stable under normal conditions.

Possibility of Hazardous Reactions:	Vapors may form explosive mixture with air.
Conditions to avoid:	Heat, flames and sparks.

Section 11. Toxicological Information

Acute toxicity:	Components: 67-56-1: Acute oral toxicity LD50 (rat): 100 mg/kg Assessment: The component/mixture is toxic after single ingestion. Acute inhalation toxicity LC50 (rat): 5 mg/l Assessment: The component/mixture is toxic after short term inhalation. Acute dermal toxicity LD50 (rabbit): 300 mg/kg Assessment: The component/mixture is toxic after single contact with skin.
Skin corrosion/irritation:	Components: 67-56-1 Species: rabbit Result: No skin irritation
Serious eye damage/eye irritation:	Components: 67-56-1 Species: rabbit Result: No eye irritation
Respiratory or skin sensitisation:	Components: 67-56-1 Test Type: Maximisation Test (GPMT) Species: guinea pig Method: OECD Test Guideline 406 Result: Did not cause sensitisation on laboratory animals.
Germ cell mutagenicity:	Components: 67-56-1 Genotoxicity in vitro: Test Type: DNA damage and/or repair Metabolic activation: with and without metabolic activation Result: Ambiguous Test Type: In vivo micronucleus test Test species: mouse (male and female) Cell type: Bone marrow Application Route: Intraperitoneal Exposure time: Single Dose: 0, 1920, 3200, 4480 mg/kg Result: negative Germ cell mutagenicity- Assessment: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity	Components: 67-56-1 Carcinogenicity - Assessment
Reproductive toxicity:	Components: 67-56-1 Effects on fertility: Test Type: Two-generation study Species: rat, male and female Application Route: Inhalation Dose: 0, 0.013, 0.13, 1.3 mg/L Duration of Single Treatment: 20 h General Toxicity - Parent: NOAEC: 1.3 mg/l General Toxicity F1: NOAEC: 0.13 mg/l Fertility: NOAEC: 1.3 mg/l Symptoms: Effects on postnatal development. Result: Animal testing did not show any effects on fertility. Effects on foetal development: Species: rat Application Route: inhalation (vapor) Dose: 0, 6.65, 13.3, 26.6 mg/L Duration of Single Treatment: 20 d Frequency of Treatment: 7 hr/day General Toxicity Maternal: NOAEC: 13.3 mg/L Teratogenicity: NOAEC: 6.65 mg/L Result: Teratogenic effects. Reproductive toxicity - Assessment: Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.
STOT - single exposure	Product: No data available Components: 67-56-1 Target Organs: Eyes, Central nervous system Assessment: Causes damage to organs., The sub-stance or mixture is classified as specific target organ toxicant, single expo-sure, category 1.
STOT - repeated exposure	Product: No data available Components: 67-56-1: No data available
Repeated dose toxicity:	Components: 67-56-1: Species: mouse, male and female NOAEL: 1.3 mg/l Application Route: Inhalation Exposure time: 12 mths Number of exposures: Continuous Dose: 0, 0.013, 0.13, 1.3 mg/L
Aspiration toxicity:	Product: Remarks: Solvents may degrease the skin.

Section 12. Ecological Information

Ecotoxicity:	Components: 67-56-1: Toxicity to fish: LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l

Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates:
EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae:
EC50 (Scenedesmus capricornutum (fresh water al-gae)): 22,000 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201

Toxicity to bacteria: IC50 (activated sludge): > 1,000 mg/l
End point: Growth rate
Exposure time: 3 h
Test Type: Static
Method: OECD Test Guideline 209

Persistence and degradability:

Components:
67-56-1

Biodegradability: aerobic
Result: Readily biodegradable.
Biodegradation: 72 %
Remarks: Readily biodegradable

Biochemical Oxygen Demand (BOD): 600 - 1,120 mg/g
Chemical Oxygen Demand (COD): 1,420 mg/g
BOD/COD: 600 - 1120COD: 1420

Stability in water:
Hydrolysis: 91 % at 19 °C(72 h)
Remarks: Hydrolyses on contact with water.
Hydrolyses readily.

Bioaccumulative potential:

Components:
67-56-1
Bioaccumulation
Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 1.0
Exposure time: 72 d
Temperature: 20 °C
Concentration: 5 mg/l
Remarks: This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Partition coefficient: n-octanol/water

	log Pow: -0.77
Mobility in soil:	No data available.
Other adverse effects:	No data available.

Product:
Regulation
40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks
This product neither contains, nor was manufactured with Class I or Clas II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).

Additional Ecological Information:	There is no data available for this product.

Section 13. Disposal

Disposal methods:	Waste from residues: Dispose of in accordance with all applicable local, state and federal regulations. Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Dispose of in accordance with all applicable local, state and federal regulations. Contaminated packaging: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

Section 14. Transport Information

UN Number	1230
UN Proper Shipping Name	Methanol
DOT Classification	3
Packing Group	II
IMDG - UN Number	1230
IMDG - UN Proper Shipping Name	Methanol
IMDG - Hazard Class	3 (6.1)
IMDG - Packing Group:	II
IATA - UN Number:	1230
IATA - UN Proper Shipping Name:	Methanol
IATA - Hazard Class:	3 (6.1)
IATA - Packing Group:	II

Section 15. Regulatory Information

SARA 311/312:	Refer to Section 2 of the SDS.
SARA 302:	N.A.
SARA 304:	N.A.
SARA 313:	Methanol.
TSCA:	All components are listed or exempt.
CERCLA Hazardous Substance List:	N.A.
Clean Air Act (CAA) Section 112, 112 (r):	N.A.
New Jersey Right to Know Components:	METHYL ALCOHOL.
Massachusetts Right to Know Components:	METHYL ALCOHOL.
Pennsylvania Right to Know Components:	METHANOL.
Rhode Island Right to Know Components:	methyl alcohol.

Section 16. Other Information

Revision Date	2/22/2024
Legend	N.A. - Not Applicable N.E. - Not Established N.D. - Not Determined
Additional Information:	The information contained herein is furnished without warranty or legal responsibility of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees.