



SAFETY DATA SHEET

Date issued : 07/27/2005

SDS number : 10889

Date revised : 01/10/2025

Revision number : 17

METHANOL

1. Identification

Product identifier: METHANOL

Product Code: MET0898

Alternate product identifier(s): Methyl alcohol, Wood alcohol, Reagent ACS GRADE, Electronic Grade, Semi

Grade, Mt. Hood Winter Wash

Supplier:

KTEC Equipment and Supplies

6935 W. Frye Rd.

Chandler, AZ 85226

Customer Service: 4808390003

Emergency telephone number (24 hour)

CHEMTREC (US Transportation) :(800) 424 - 9300

2. Hazard identification

Classification of the substance or mixture

Health hazards:

Acute Toxicity (Oral), Category 3

Acute Toxicity (Inhalation), Category 3

Acute Toxicity (Dermal), Category 3

Target Organ Toxicity (Single exposure), Category 1

Physical hazards:

Flammable Liquids, Category 2

Label elements



Flame



Skull and
crossbones



Health
hazard

Signal word: DANGER

Hazard statement(s)

H225: Highly flammable liquid and vapour.

H301: Toxic if swallowed.

H311: Toxic in contact with skin.

H370: Causes damage to organs (or state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H331: Toxic if inhaled.

METHANOL**Precautionary statement(s)****Prevention:**

- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
- P270: Do not eat, drink or smoke when using this product.
- P240: Ground and bond container and receiving equipment.
- P102: Keep out of reach of children.
- P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
- P304+P312: IF INHALED: Call a POISON CENTER/doctor/...if you feel unwell.
- P311: Call a POISON CENTER/doctor/...
- P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P403: Store in a well-ventilated place.
- P234: Keep only in original packaging.

Response:

- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Storage:

- P233: Keep container tightly closed.

Disposal:

- P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.
- P242: Use non-sparking tools.
- P243: Take action to prevent static discharges.
- P260: Do not breathe dust/fume/gas/mist/vapours/spray.
- P264: Wash ... thoroughly after handling.
- P271: Use only outdoors or in a well-ventilated area.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352: IF ON SKIN: Wash with plenty of water/...
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P307+P311: IF exposed: Call a POISON CENTER or doctor/physician.
- P312: Call a POISON CENTER/doctor/...if you feel unwell.
- P322: Specific measures (see ... on this label).
- P361: Take off immediately all contaminated clothing.
- P363: Wash contaminated clothing before reuse.
- P370+P378: In case of fire: Use ... to extinguish.
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P403+P235: Store in a well-ventilated place. Keep cool.
- P405: Store locked up.
- P501: Dispose of contents/container to ...

Emergency overview

Immediate concerns: DANGER! Highly Flammable liquid and vapor. Harmful or fatal if swallowed. Vapor harmful.

Potential health effects

Eye: Moderately irritating to eyes.

Skin: Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Ingestion: POISONOUS. May be fatal or cause blindness if swallowed. Ingestion may have a narcotic effect

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including signs of CNS depression such as dizziness, headache, drowsiness, loss of coordination, and fatigue.

Inhalation: Excessive exposure to this product may cause headache, CNS depression, drowsiness, dizziness, loss of appetite, irritation of the respiratory tract, drunkenness, unconsciousness, or death.

Medical conditions aggravated: Preexisting diseases in or history of ailments involving skin, central nervous system, liver and kidney.

Comments health: Can cause optic nerve damage (blindness).

3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
Methanol	99 - 100	67-56-1

4. First-aid measures

Eye: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.

Skin: Remove contaminated clothing/shoes. Flush skin with water for at least 15 minutes. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.

Ingestion: Call poison control center or get medical help immediately. If patient is conscious and alert, give 8 ounces of water or juice and induce vomiting, keeping patient's head below hips to prevent aspiration of liquid into lungs. Never induce vomiting on an unconscious person.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Most important symptoms and effects, both acute and delayed

Acute effects: Shortness of breathing, confused behavior, redness of skin, swelling of tissues, watery eyes, and nausea.

5. Fire-fighting measures

Suitable extinguishing media: Use water fog, "alcohol" foam, dry chemical, or CO₂.

Hazardous combustion products: Carbon monoxide and unidentified organic compounds may be formed during combustion.

Explosion hazards: When heated above the flash point, this material emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

Fire fighting procedures: WARNING! Flammable Liquid. Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear, including a positive pressure NIOSH approved SCBA. Cool fire exposed containers with water.

6. Accidental release measures

General procedures: WARNING. Flammable. Ventilate area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from vapors. Only specially trained or qualified personnel should handle the emergency.

7. Handling and storage

General procedures: Keep away from heat, sparks, and flame. Surfaces that are hot may ignite even liquid product in

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the absence of sparks or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone.

Conditions for safe storage: Store away from heat, sparks, and open flame. Keep containers tightly closed when not in use. Do not weld, cut, grind, solder, or drill on or near empty containers. Empty containers may contain explosive concentrations of product vapors.

Comments: KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition; they may explode and cause injury or death. Observe all federal, state, and local regulations and National Fire Protection Association (NFPA) Codes with pertain to the specific local conditions of stage and use, including OSHA 29 CFR 1910.106 and NFPA 30, 70, 77, and 497.

8. Exposure controls/personal protection

Exposure controls

Control parameters				
Occupational exposure limit values				
Chemical name	Type		ppm	mg/m ³
Methanol	OSHA PEL	TWA	200	260
	ACGIH TLV	TWA	200	262
		STEL	250	328

Appropriate engineering controls: Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

Individual protection measures, such as personal protective equipment

Eye / face protection: Chemical goggles/face shield.

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

Respiratory protection: If exposure may or does exceed occupational exposure limits (Sec. 8) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

Skin protection - other: Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.

Occupational hygiene practices: Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

Other use precautions: May be harmful or fatal if swallowed. May irritate body tissues. Use with adequate ventilation. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

9. Physical and chemical properties

Chemical name	Flash Point (°C)
Methanol	52

Physical state: Liquid

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Color: Clear, colorless liquid.

Odor: Pungent odor.

pH: NA = Not Applicable

Freezing point: (-144°F)

Initial boiling point and boiling range: (147°F)

Flash point: (52°F)

Evaporation rate (n-butyl acetate = 1): Slower than ether.

Lower explosion limit / flammability limit: 0.06

Upper explosion limit / flammability limit: 0.36

Vapor pressure: 96 mm Hg

Relative vapor density: Heavier than air.

Density: 6.60

Relative density: 0.79 to 0.80

Solubility: Soluble

Auto-ignition temperature: (867°F)

Molecular weight: 32.1

Percent volatiles: 100

10. Stability and reactivity

Reactivity: Yes

Dangerous polymerization: Avoid heat, flame, and other sources of ignition.

Conditions to avoid: Avoid strong alkalies and oxidizing agents.

Hazardous decomposition products: May form carbon dioxide, carbon monoxide, various hydrocarbons.

11. Toxicological information

Comments: Poison. May be fatal or cause blindness, if swallowed. Cannot be made nonpoisonous.

12. Ecological information

Ecotoxicological information: Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

13. Disposal considerations

Disposal methods: The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

Empty container: KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue and can be dangerous. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

RCRA/EPA waste information: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR. Additionally, waste

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generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

USA Department of Transport Regulations (DOT)

UN proper shipping name: Methanol

UN number: UN 1230

Transport hazard class(es): 3

Packing group, if applicable: II

NAERG: 131

Reportable quantity (rq) under CERCLA: 5,000

Hazard label: Flammable liquid

DOT other shipping information: If shipping over water use IMDG:

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UN 1230, METHANOL, 3 (6.1), II

NAERG # 131

15. Regulatory information

UNITED STATES

Dot label symbol and hazard classification



Flammable
Liquid



Skull and
crossbones

SARA Section 311/312 Hazard Categories

311/312 Health hazards: This product should be reported as an immediate (acute) health hazard, delayed (chronic) health hazard, and a fire hazard.

313 reportable ingredients: Methyl alcohol (CAS 67-56-1)

EPCRA Section 313 Toxic Chemicals

Chemical name	% w/w	CAS No.
Methanol	99 - 100	67-56-1

CERCLA Hazardous Substances and Reportable Quantities (RQ)

Chemical name	% w/w	CERCLA rq
Methanol	99 - 100	5,000

CERCLA rq: 5,000 lbs.

METHANOL**TSCA (The Toxic Substances Control Act)**

Chemical name	CAS No.
Methanol	67-56-1

General comments: The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

16. Other information

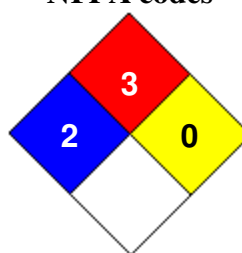
Reason for issue: Updated SDS information and changed to new format.

Prepared by: Compliance **Date revised:** 01/10/2025

Revision summary: This SDS replaces the 07/06/2021 SDS. Revised: **Section 2:** Label elements, Precautionary statement(s).

HMIS rating

Health		2
Flammability		3
Physical hazard		0
Personal protection	H	

NFPA codes

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