



**HIGH
PURITY
PRODUCTS**

Safety Data Sheet

From: High Purity Products
14157 NE Airport Way
Portland, OR 97230

EMERGENCY TELEPHONE NUMBER
24 hour Emergency Telephone Number:
CHEMTREC 1-800-424-9300

Methanol

1. Product Identification

Synonyms: Methyl alcohol, Wood alcohol, Reagent ACS GRADE, Electronic Grade, Semi Grade, Mt. Hood Winter Wash

CAS No.: 67-56-1

GHS CLASSIFICATIONS

Health:

Acute Toxicity (Oral), Category 3
Acute Toxicity (Inhalation), Category 3
Acute Toxicity (Dermal), Category 3
Target Organ Toxicity (Single exposure), Category 1

Physical:

Flammable Liquids, Category 2

GHS LABEL



SIGNAL WORD: DANGER

HAZARD STATEMENTS

Highly flammable liquid and vapour. Toxic if swallowed. Toxic in contact with skin. 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).

PRECAUTIONARY STATEMENT(S)

Prevention:

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

EMERGENCY OVERVIEW

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

POTENTIAL HEALTH EFFECTS

EYES: Moderately irritating to the 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 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	CAS number	%
Methanol	67-56-1	99-100

4. First-aid measures

EYES: 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. If breathing is difficult, oxygen should be administered by qualified personnel. Seek immediate medical attention.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

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

5. Fire-fighting measures

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 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.

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.

8. Exposure controls/personal protection

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
EXPOSURE LIMITS				
Chemical Name	Type		ppm	mg/m3
Methanol	OSHA PEL	TWA	200	260
		TWA	200	262
	ACGIH TLV	STEL	250	328

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.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Use chemical safety goggles and/or 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 areas.

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

RESPIRATORY: 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.

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

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

9. Physical and chemical properties

PHYSICAL STATE:	Liquid
ODOR:	Pungent odor.
COLOR:	Clear, colorless liquid.
pH:	NA = Not Applicable
PERCENT VOLATILE:	100
FLASHPOINT AND METHOD:	52°F
FLAMMABLE LIMITS:	0.06 to 0.36
AUTOIGNITION TEMPERATURE:	867°F

VAPOR PRESSURE:	96 mm Hg
VAPOR DENSITY:	Heavier than air.
BOILING POINT:	147°F
FREEZING POINT:	(-144°F)
SOLUBILITY IN WATER:	Soluble
EVAPORATION RATE:	Slower than ether.
DENSITY:	6.60
SPECIFIC GRAVITY:	0.79 to 0.80
MOLECULAR WEIGHT:	32.1

10. Stability and reactivity

REACTIVITY: Yes

**HAZARDOUS
POLYMERIZATION:** Avoid heat, flame, and other sources of ignition.

**CONDITIONS TO
AVOID:** Avoid strong alkalis 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 METHOD: 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 generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME:	Methanol
PRIMARY HAZARD CLASS/DIVISION:	3
UN/NA NUMBER:	UN 1230
PACKING GROUP:	II
NAERG:	131
REPORTABLE QUANTITY (RQ) UNDER CERCLA:	5,000
LABEL:	Flammable liquid

OTHER SHIPPING INFORMATION: If shipping over water use IMDG:

METHANOL
UN 1230, METHANOL, 3 (6.1), II
NAERG # 131

15. Regulatory information

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Flammable Liquide



Skull and Crossbones

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES:	This product should be reported as an immediate (acute) health hazard, delayed (chronic) health hazard, and a fire hazard.
FIRE:	Yes
PRESSURE GENERATING:	No
REACTIVITY:	No
ACUTE:	Yes
CHRONIC:	Yes

313 REPORTABLE INGREDIENTS: Methyl alcohol (CAS 67-56-1)

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA RQ: 5,000 lbs.

GENERAL COMMENTS:

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

16. Other information

NFPA Ratings: Health: 2 Flammability: 3 Reactivity: 0

Disclaimer:

High Purity Products provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. HIGH PURITY PRODUCTS MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, HIGH PURITY PRODUCTS WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.
