

Material Safety Data Sheet

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Section 1 - Product Identification

Product Name: **Methanol**

Section 2 - Hazardous Ingredients

Component	CAS Number	% wt or % vol	OSHA PEL TWA	ACGIH TLV TWA	CARCINOGEN	OSHA IARC	NTP
Methyl alcohol	67-56-1	>90	260 mg/m ³	262 mg/m ³	N	N	N
Other Compounds - Refer to Certificate of Analysis	N/A	<10	—	—	—	—	—

Section 3 - Hazards Identification

☆☆☆☆ Emergency Overview ☆☆☆☆

Potential Health Effects

Specific health effects data is not available for this mixture, however, data has been provided for the solvent, Methyl alcohol.

All chemicals should be considered hazardous - direct physical contact should be avoided.

Major Health Hazards: Respiratory tract irritation, skin irritation, eye irritation, may cause convulsions, may affect the central nervous system or damage nerves.

Carcinogenicity: Refer to hazards listing on the Certificate of Analysis and label.

Section 4 - First Aid Measures

Inhalation: When safe to enter area, remove from exposure to fresh air immediately. Use a bag valve mask or similar device to perform artificial respiration if needed. Keep warm and at rest.

Eye Contact: Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains.

Skin Contact: Remove contaminated clothing, jewelry, and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes).

Ingestion: If ingestion of methanol is discovered within two hours, give syrup of ipecac. If vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Lavage thoroughly with large amounts (2-4 liters) of tap water with sodium bicarbonate (20 g/L) added. Lavage should be performed by qualified medical personnel.
After first aid, get appropriate medical support immediately.

Section 5 - Fire-Fighting Measures

Flash Point: 52 °F (11 °C)

Autoignition Temperature: 725 °F (385 °C)

Flammability Classification: IB (OSHA)

Extinguishing Media: Dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For larger fires, use water spray, fog or alcohol-resistant foam.

Fire or Explosion Hazards: Dangerous fire hazard. Vapors are heavier than air and may travel a considerable distance to a source of ignition and flash back. Vapor-air mixtures are explosive.

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill/Leak Procedures: Due to the small quantity involved, spills or leaks should not pose a significant problem. Wear personal protective equipment and protect from ignition. A leaking container may be placed in a plastic bag and normal disposal procedures followed. Absorb small spills on paper, vermiculite or other absorbent.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Use appropriate OSHA/MSHA approved safety equipment. Wear chemical goggles, face shield, gloves, and chemical resistant clothing such as a laboratory coat and/or a rubber apron to prevent contact with eyes, skin, and clothing.

Storage Requirements: Store tightly closed in a cool, dry place. Ventilation required. Avoid heat, flames, sparks, and other sources of ignition. Protect from physical damage.

Regulatory Requirements: Store and handle in accordance with all current regulations and standards.

Section 8 - Exposure Controls / Personal Protection

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

Warning: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gannets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area. **Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties

Specific physical and chemical properties for this mixture have not been determined, however, data has been provided for the solvent, Methyl alcohol.

Physical State: Liquid

Appearance and Odor: Characteristic alcoholic odor.

Odor Threshold: 100 ppm

Boiling Point: 149 °F (65 °C)

Freezing/Melting Point: -137 °F (-94 °C)

Formula Weight: 32.04

Density: 0.7914

pH: Neutral

Section 10 - Stability and Reactivity

Specific stability and reactivity data is not available for this mixture, however, data has been provided for the solvent, Methyl alcohol.

Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

Chemical Incompatibilities: Oxidants (such as barium perchlorate, bromine, chlorine, hydrogen peroxide, lead perchlorate, perchloric acid, sodium hypochlorite), Active metals (such as potassium & magnesium), Specific chemicals (including acetyl cyanide, alkyl aluminum salts, beryllium dihydride, carbon tetrachloride + metals, chloroform + heat or sodium hydroxide, cyanuric chloride, diethyl zinc, nitric acid, potassium tertbutoxide).

Conditions to Avoid: Avoid heat, flames, sparks, and other sources of ignition.

Section 11 - Toxicological Information

Specific toxicological data has not been determined for this mixture.

Section 12 - Ecological Information

Due to the small quantity involved, ecological hazards should not pose a significant problem.

Section 13 - Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Disposal Regulatory Requirements: Subject to disposal regulations - U.S. EPA 40 CFR 262.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 173.4):

This standard is packaged and shipped in accordance with 49 CFR 173.4: Hazardous Materials in Excepted Quantities.

Section 15 - Regulatory Information

Specific regulatory information is not available for this mixture, however, data has been provided for the solvent, Methyl alcohol.

EPA Regulations:

RCRA Hazardous Waste Number (40 CFR 261.33): U154

TSCA Inventory Status: Y

CERCLA Hazardous Substance (40 CFR 302.4): Y

CERCLA Reportable Quantity (RQ): 500 lbs

SAKA 311/312:

Acute: Y Chronic: Y Fire: Y Reactive: N

SARA Toxic Chemical (40 CFR 372.65): Y

SAKA EHS (Extremely Hazardous Substance) (40 CFR 355): N

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Y

OSHA Specifically Regulated Substance: N

Section 16 - Other Information

Disclaimer: The information stated in this Material Safety Data Sheet (MSDS) is believed to be correct on the date of publication and must not be considered all inclusive. This data should be used only as a guide in handling the material. NSI SOLUTIONS, INC. shall not be held liable for any damage resulting from handling or from contact with this product. This product is furnished for laboratory use ONLY. These standards may not be used as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

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