SAFETY DATA SHEET

Methanol / DI Water Solution 30/70 (v/v)

Revised: 2026-11-18

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Methanol / DI Water Solution 30/70 (v/v)
Synonyms: Methanol / water solution, MeOH 30/70, Methanol / DI Water 30/70 (v/v)
CAS Number: 67-56-1
Grade/Purity: Technical
Product Type: Solvents
Product Use: Industrial, Manufacturing or Laboratory use
Manufacturer/Supplier: Alliance Chemical, 204 South Edmond St, Taylor, Texas 76574
Information: 512-365-6838 | www.alliancechemical.com
Emergency: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

Classification: Flammable liquids, Category 3
Acute toxicity (oral), Category 4
Acute toxicity (dermal), Category 4
Acute toxicity (inhalation), Category 4
Specific target organ toxicity, single exposure, Category 1 (eyes, central nervous system)
Signal Word: Danger
GHS Pictograms:



Hazard Statements:

H226	Flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H332	Harmful if inhaled
H370	Causes damage to organs (eyes, central nervous system)

Precautionary Statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, and lighting equipment.
P242	Use non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust, fume, gas, mist, vapors or spray.
P264	Wash hands and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing, and eye/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P311	IF exposed or concerned: Call a POISON CENTER or doctor.
P321	Specific treatment (see first-aid information on this label).
P330	Rinse mouth.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use alcohol-resistant foam, CO2 or dry chemical powder to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents and container in accordance with local, regional, national, and international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	% MIN	% MAX	CAS #	EINECS# / ELINCS#	FORMULA	MOLECULAR WEIGHT
Methanol (% v/v; approx. 25.4% w/w, calculated)	30	30	67-56-1	200-659-6	CH_3OH	32.04 g/mol
Water, deionized	Balance		7732-18-5	231-791-2	H_2O	18.02 g/mol

Composition basis: 30 parts methanol to 70 parts deionized water by volume, measured before mixing. The weight basis, about 25.4% w/w methanol, is calculated from densities at 20 °C (methanol 0.792, water 0.998 g/mL); it is not a measured value.

4. FIRST-AID MEASURES

Eyes	Rinse with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention immediately.
Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing. Wash with soap. Get medical attention immediately.
Inhalation	Move person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately, even if no symptoms are present: the effects of methanol poisoning (headache, visual disturbance, metabolic acidosis) may be delayed for several hours.

5. FIRE-FIGHTING MEASURES

Suitable Media	Alcohol-resistant foam, CO2, dry chemical powder. Water spray may be used to cool fire-exposed containers.
Unsuitable Media	Do not use a solid water stream — may scatter and spread fire.
Protective Equipment	Wear self-contained breathing apparatus and full protective clothing.
Combustion Products	Carbon monoxide, carbon dioxide and formaldehyde.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental	Prevent leakage or spillage from entering drains, sewers, or waterways.
Containment & Cleanup	Absorb with inert material. Collect in appropriate waste container. Dispose per applicable regulations.

7. HANDLING AND STORAGE

Safe Handling	Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use.
Safe Storage	Store in a cool, dry, well-ventilated area away from heat, sparks, and open flame. Keep away from: Strong oxidizing agents and peroxides; strong acids, acid anhydrides and acid chlorides; strong bases; alkali metals; aluminum, zinc and lead. Keep containers tightly closed. Ground and bond containers when transferring material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.

Occupational Exposure Limits:

AGENCY	EXPOSURE LIMIT
OSHA PEL	200 ppm TWA (methanol)
ACGIH TLV	200 ppm TWA / 250 ppm STEL, skin (methanol)
NIOSH REL	200 ppm TWA / 250 ppm STEL, skin (methanol)
IDLH	6000 ppm (methanol)

Eyes	Wear chemical safety goggles or face shield.
Skin	Wear chemical-resistant gloves and protective clothing.
Inhalation	Use a NIOSH-approved respirator with organic vapor cartridges. For confined spaces or exposures above the OEL, use supplied-air respiratory protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid
Odor	Faint alcohol-like odor
Particle Characteristics	Not Applicable
pH	About 7 (neutral aqueous solution)
Melting Point	Approximately -20 °C (-4 °F), freezing point (estimated for ~25 wt% methanol in water)
Boiling Point	Approximately 83 °C (181 °F), initial boiling point (estimated from methanol–water equilibrium data)
Flash Point	About 38 °C (100 °F), closed cup (interpolated from measured equilibrium closed-cup values for methanol in water: 27 °C at 50% v/v and 41 °C at 25% v/v, ±2 °C; Astbury et al., IChemE Symposium Series No. 150, 2004; not measured on this lot)
Vapor Pressure	Not Available
Specific Gravity	About 0.96 at 20 °C (water = 1); density about 0.96 g/mL at 20 °C (methanol–water density tables, ~25.4 wt%)
Solubility	Completely miscible with water
Molecular Formula	CH_4O
Molecular Weight	32.04 g/mol

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Hazardous Reactions	None under normal processing conditions.
Conditions to Avoid	Heat, sparks, open flame, static discharge and other ignition sources.
Incompatible Materials	Strong oxidizing agents and peroxides; strong acids, acid anhydrides and acid chlorides; strong bases; alkali metals; aluminum, zinc and lead.
Decomposition Products	Carbon monoxide, carbon dioxide and formaldehyde.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: See below for route-specific data.

ROUTE	VALUE
LD50 Oral	ATEmix about 394 mg/kg (calculated: methanol human-based ATE 100 mg/kg ÷ 0.254) - Acute Tox. Category 4
LD50 Dermal	ATEmix about 1,180 mg/kg (calculated: methanol ATE 300 mg/kg ÷ 0.254) - Acute Tox. Category 4
LC50 Inhalation	ATEmix about 11.8 mg/L vapor (calculated: methanol ATE 3 mg/L ÷ 0.254) - Acute Tox. Category 4

IARC	Not listed as carcinogen.
NTP	Not listed as carcinogen.
OSHA	Not listed as carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Data not available. Avoid release to the environment.
Persistence	Not Available
Bioaccumulation	Not Available
Mobility in Soil	Not Available

13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose of into drains or waterways.

If discarded, this material is an ignitable hazardous waste (EPA RCRA D001, 40 CFR 261.21(a)(1): flash point below 60 °C; the exclusion for aqueous solutions with less than 24% alcohol by volume does not apply at 30% v/v). Unused material in which methanol is the sole active ingredient is also U154 (40 CFR 261.33). The waste generator must make the final hazardous-waste determination.

14. TRANSPORT INFORMATION

US DOT	UN1987, Alcohols, n.o.s. (Methanol), 3, PG III
IMDG	UN1987, Alcohols, n.o.s. (Methanol), 3, PG III
IATA/ICAO	UN1987, Alcohols, n.o.s. (Methanol), 3, PG III
Marine Pollutant	No
Note	Not a marine pollutant. No Division 6.1 subsidiary hazard: calculated from methanol's human-based toxicity values, the mixture's oral LD50 (about 394 mg/kg), dermal LD50 (about 1,180 mg/kg) and vapour LC50 are all outside the Division 6.1 criteria (49 CFR 173.132). UN1230 (Methanol) is listed only as Class 3 (6.1), Packing Group II, so this Packing Group III solution ships as UN1987, Alcohols, n.o.s. (Methanol). Inner packagings of 5 L or less may ship as Limited Quantity (49 CFR 173.150(b); IMDG 3.4).

15. REGULATORY INFORMATION

TSCA Inventory	Listed.
SARA 313 (TRI)	Listed (de minimis 1.0%).
California Prop 65	Listed (developmental).
SARA 311/312	See Section 2 for hazard classifications.

Data retrieved as of — TSCA Inventory: 2026-11-02; SARA 313 (TRI): 2026-11-02; California Prop 65: 2026-11-02

16. OTHER INFORMATION

Revision Date: 2026-11-18

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