ALLIANCE CHEMICAL
204 South Edmond Street, Taylor, TX 76574 | 512-365-6838

Safety Data Sheet

Issue Date: 27-Apr-2026 **Review Date:** 27-Apr-2026 **Version** 1.0

1. IDENTIFICATION

Product Name Inhibited Ethylene Glycol 30/70 with OAT-908
Chemical Name Ethylene Glycol Aqueous Solution with OAT-908 Hybrid Corrosion Inhibitor Package
Other Identification Inhibited EG 30/70 OAT-908; Data Center Coolant; Industrial Heat Transfer Fluid
CAS Number 107-21-1 (Ethylene Glycol), 7732-18-5 (Water), Mixture (OAT-908 inhibitor package)
Product Code AC-EG30-OAT908
SDS # AC-EG30-OAT908-001
Recommended Use Closed-loop heat-transfer fluid; data center direct liquid cooling (DLC); HVAC chiller and hydronic loop fluid; industrial process cooling; freeze and burst protection.
Uses Advised Against Food contact, potable water systems, automotive crankcase, single-pass / once-through cooling. Not for human or animal consumption.

Supplier Alliance Chemical
204 South Edmond Street, Taylor, TX 76574
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2. HAZARDS IDENTIFICATION

GHS Classification (29 CFR 1910.1200, OSHA HCS 2012):
At the 30% v/v ethylene glycol concentration of this product, the finished blend does not meet the threshold for GHS acute toxicity classification under the additivity calculation. However, ethylene glycol is a known oral toxicant and the diluted product is recognized as a developmental toxicant under California Proposition 65 (see Section 15). The product carries cautionary handling and ingestion warnings on the basis of the ethylene glycol content.

Signal Word: WARNING

Hazard Statements:
H302 (advisory) - May be harmful if swallowed in significant quantity.
H373 (advisory) - May cause damage to kidneys and central nervous system through prolonged or repeated exposure to ethylene glycol.
Prop 65 - This product contains ethylene glycol, which is known to the State of California to cause developmental toxicity (birth defects or other reproductive harm).

Precautionary Statements:
P102 - Keep out of reach of children and pets.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink, or smoke when using this product.
P280 - Wear protective gloves and eye protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations.

PET TOXICITY WARNING: Ethylene glycol is highly toxic to dogs, cats, and other animals. The sweet taste is attractive to animals. As little as one teaspoon of pure ethylene glycol can be lethal to a small dog or cat. Clean up spills immediately. Do not allow used or fresh coolant to drain where animals may access it.

Other Hazards: Spilled material may present a slip hazard. Not a DOT-regulated hazardous material.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%

Ethylene Glycol	107-21-1	29 - 31
Water	7732-18-5	66 - 69
OAT-908 Hybrid Corrosion Inhibitor Package	Mixture	2 - 3

Note on the OAT-908 inhibitor package: The OAT-908 package is a hybrid organic-acid / inorganic corrosion-inhibitor blend containing sodium nitrite, sodium molybdate dihydrate, sodium benzoate, proprietary aliphatic organic-acid (carboxylate) inhibitors, and triethanolamine in deionized water. Components are present at non-hazardous concentrations in the finished 30/70 blend. Detailed sub-composition on file with the inhibitor licensor and available to qualified customers under non-disclosure agreement.

4. FIRST-AID MEASURES

Eye Contact: Flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Remove contact lenses if present and easy to do. If irritation persists, seek medical attention.

Skin Contact: Wash affected area with soap and water. Remove contaminated clothing and launder before reuse. Seek medical attention if irritation develops or persists.

Inhalation: Vapors are not expected at room temperature under normal use. If inhalation of mist or aerosol causes discomfort, move to fresh air. Seek medical attention if symptoms persist.

Ingestion: DO NOT induce vomiting unless directed by medical personnel. Rinse mouth thoroughly with water. Give 1-2 glasses of water if victim is conscious and alert. **Immediately call a POISON CONTROL CENTER (1-800-222-1222 in the U.S.) or physician.** Ethylene glycol is metabolized to toxic acid metabolites; early treatment with fomepizole or ethanol may be life-saving.

Most Important Symptoms: Mild eye/skin irritation on contact. Acute oral ingestion can cause nausea, vomiting, CNS depression, metabolic acidosis, and acute kidney injury (typically delayed 12-72 hours). Sweet taste; do not be reassured by lack of immediate symptoms after ingestion.

Notes to Physician: Ethylene glycol toxicity follows a triphasic course: (1) CNS depression and metabolic acidosis 0.5-12 hr post-ingestion; (2) cardiopulmonary effects 12-24 hr; (3) renal injury 24-72 hr. Treat with fomepizole (preferred) or ethanol IV; consider hemodialysis for severe acidosis or renal failure. Monitor anion gap, osmolar gap, calcium oxalate crystalluria. Sodium bicarbonate for acidosis.

5. FIRE-FIGHTING MEASURES

Flash Point: No flash point at 30/70 dilution (water-rich blend will not sustain combustion). Pure ethylene glycol component: 111°C (232°F) closed cup.
Suitable Extinguishing Media: Water spray or fog, alcohol-resistant foam, dry chemical, carbon dioxide (CO2).
Unsuitable Extinguishing Media: None known.
Specific Hazards: Not considered a fire hazard at this concentration. On evaporation of water during a sustained fire, the remaining ethylene glycol phase becomes combustible.
Hazardous Combustion Products: Carbon monoxide, carbon dioxide, aldehydes, irritating organic fumes; trace nitrogen oxides from inhibitor decomposition.
Protective Equipment: Wear self-contained breathing apparatus (SCBA) and full protective gear in fire-fighting situations.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use appropriate PPE. Spilled material is slippery. Ensure adequate ventilation. Keep pets and children away from spill area until cleanup is complete.
Environmental Precautions: Prevent entry into waterways, sewers, basements, or confined areas. Ethylene glycol is readily biodegradable but may deplete dissolved oxygen in surface waters at high concentrations and is acutely toxic to aquatic organisms at very high concentrations.
Methods for Containment: Dike spilled material. Absorb with inert absorbent (sand, earth, vermiculite, commercial spill absorbent).
Methods for Clean-Up: Collect absorbed material into approved containers for disposal. Flush residue with water to a treatment facility in compliance with local regulations. Note: ethylene glycol is highly attractive to and toxic to animals; ensure complete cleanup of any outdoor spill.

7. HANDLING AND STORAGE

Advice on Safe Handling: Use with adequate ventilation. Avoid prolonged skin and eye contact. Wash hands after handling. Keep container closed when not in use. Do not eat, drink, or smoke when using this product.

Storage Conditions: Store in a cool, dry, well-ventilated area. Keep container tightly closed. Store between 5-40°C (40-104°F). Protect from freezing where possible; if freezing occurs in storage, thaw and mix thoroughly before use to redisperse inhibitor.
Incompatible Materials: Strong oxidizing agents, strong acids, strong bases, perchlorates.
Container Material: HDPE drums and IBC totes; stainless steel; mild steel with proper inhibitor protection. Avoid prolonged contact with zinc-galvanized or magnesium alloy containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL	ACGIH TLV	NIOSH REL
Ethylene Glycol 107-21-1	Not established	100 mg/m³ (Ceiling, aerosol)	Ceiling 50 ppm vapor / 100 mg/m³ aerosol
Water 7732-18-5	Not established	Not established	Not established

Engineering Controls: General ventilation normally adequate. Local exhaust ventilation where mist or aerosol may form (e.g., spray application or pump cavitation).
Eye/Face Protection: Chemical splash goggles recommended for handling bulk quantities. Full face shield where splash is foreseeable.
Skin and Body Protection: Chemical-resistant gloves (nitrile, neoprene, butyl rubber) for extended contact. Long sleeves and apron for splash potential.
Respiratory Protection: Not normally required for handling at room temperature. Use NIOSH-approved respirator with organic-vapor / mist cartridge where mist or aerosol exposure may exceed TLV/REL ceiling values.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Clear, colorless liquid (fluorescent green or pink dye available on request)
Odor	Mild, slightly sweet
Odor Threshold	Not determined
pH	8.5 - 10.0
Specific Gravity (20°C)	1.040 - 1.045
Density (25°C)	~1.038 g / cm³
Reserve Alkalinity	7 - 10 mL 0.1 N HCl (to pH 5.5)
Freezing Point	<= -15°C (5°F) at 30/70 dilution
Boiling Point	>= 102°C (215°F) at 760 mm Hg
Flash Point	No flash point at 30/70 (water-rich); ethylene glycol component: 111°C (232°F) closed cup
Water Solubility	Completely miscible
Vapor Pressure (20°C)	~17 mm Hg (water-dominated)
Vapor Density (Air=1)	~1.0 (water-dominated)
Evaporation Rate	< 1 (Butyl Acetate = 1)
Auto-ignition Temperature	~410°C (770°F) - ethylene glycol component
Viscosity (40°C)	1.5 - 2.0 cP
Refractive Index (20°C)	1.354 - 1.358
Specific Heat (20°C)	0.92 Btu / lb·°F (3.85 kJ / kg·K)
Thermal Conductivity (50°C)	0.42 - 0.46 W / m·K
Molecular Formula	C2H6O2 (ethylene glycol component) / H2O blend
Molecular Weight	62.07 g/mol (ethylene glycol component)

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions of use.
Chemical Stability: Stable under recommended storage conditions.
Possibility of Hazardous Reactions: Will not occur under normal handling and storage.
Conditions to Avoid: Excessive heat, strong oxidizers, freezing (precipitation of inhibitor possible; mix thoroughly after thaw).
Incompatible Materials: Strong oxidizing agents, strong acids, strong bases, perchlorates.
Hazardous Decomposition Products: On combustion: carbon monoxide, carbon dioxide, aldehydes, trace organic fumes, trace nitrogen oxides from inhibitor decomposition.

11. TOXICOLOGICAL INFORMATION

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene Glycol 107-21-1	4,700 mg/kg (Rat)	9,530 mg/kg (Rabbit)	>10.87 mg/L (Rat) 4h aerosol
Water 7732-18-5	>90,000 mg/kg (Rat)	Not applicable	Not applicable

Likely Routes of Exposure: Skin contact, eye contact; accidental ingestion is the principal acute concern.
Skin Corrosion/Irritation: Not classified at this dilution. Prolonged or repeated contact may cause mild irritation.
Serious Eye Damage/Irritation: Not classified. May cause transient mild irritation on direct contact.
Respiratory or Skin Sensitization: Not classified.
Germ Cell Mutagenicity: Not classified. Ethylene glycol is not mutagenic in standard assays.
Carcinogenicity: Not listed as a carcinogen by IARC, NTP, or OSHA.
Reproductive/Developmental Toxicity: Ethylene glycol has shown developmental toxicity in animal studies at high doses and is listed under California Proposition 65 as a developmental toxicant. See Section 15.
STOT - Single Exposure: Acute oral ingestion of ethylene glycol can cause CNS depression, metabolic acidosis, and acute kidney injury.
STOT - Repeated Exposure: Repeated or prolonged ingestion may cause kidney damage. Not expected from normal industrial handling exposure.
Aspiration Hazard: Not classified.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Ethylene glycol: Fish LC50 (96h) >40,000 mg/L (Pimephales promelas). Daphnia EC50 (48h) ~46,000 mg/L. Low to moderate acute aquatic toxicity at high concentrations.
Persistence and Degradability: Readily biodegradable (OECD 301). BOD5/COD typically > 0.5 within 28 days.
Bioaccumulative Potential: Not expected to bioaccumulate (log Kow = -1.36).
Mobility in Soil: Highly mobile in soil; miscible with water and may migrate to groundwater.
Other Adverse Effects: Large spills may deplete dissolved oxygen in receiving waters. Ethylene glycol is highly attractive to and toxic to wildlife and domestic animals.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of contents and container in accordance with local, regional, national, and international regulations. Used product may be classified as hazardous waste if contaminated during service (e.g., heavy metals, acids, etc.). Consult applicable regulations (40 CFR 261 in the U.S.) before disposal.
Contaminated Packaging: Triple-rinse empty container thoroughly. Dispose in accordance with local regulations. Do not reuse containers for other products.

14. TRANSPORT INFORMATION

DOT (U.S.): Not regulated as a hazardous material.
IATA / ICAO (Air): Not regulated.
IMDG (Sea): Not regulated.
TDG (Canada): Not regulated.
Harmonized System Code: 2905.31 (ethylene glycol)
ERG Number: N/A

15. REGULATORY INFORMATION

TSCA: All components are listed on the TSCA Inventory.
CERCLA: Ethylene glycol is listed as a CERCLA hazardous substance with a reportable quantity (RQ) of 5,000 lb (2,270 kg). Releases to the environment exceeding the RQ must be reported.
SARA 311/312: Acute Health Hazard: Yes (oral) | Chronic Health Hazard: Yes (kidney/CNS, repeated exposure) | Fire Hazard: No | Sudden Release of Pressure: No | Reactive Hazard: No
SARA 313 (Toxic Release Inventory): Ethylene glycol (CAS 107-21-1) is listed under SARA Title III, Section 313 with a de minimis concentration of 1.0%. This product contains ethylene glycol at approximately 30% and is subject to TRI reporting requirements for covered facilities.
Clean Water Act: Ethylene glycol is listed as a hazardous substance under Section 311 of the CWA.
California Proposition 65: WARNING - This product contains ethylene glycol, a chemical known to the State of California to cause developmental toxicity (birth defects or other reproductive harm). For more information visit www.P65Warnings.ca.gov.
WHMIS Classification (Canada): Not classified under WHMIS 2015 / HPR at this dilution. Refer to ethylene glycol component classification for occupational risk assessment.

16. OTHER INFORMATION

	Health Hazards	Flammability	Instability	Special Hazards
NFPA	1	1	0	—
HMIS	1	1	0	—

References: OSHA Hazard Communication Standard 29 CFR 1910.1200; ANSI Z400.1; CFR Title 49 (Transportation); California Proposition 65 list (current); CERCLA Reportable Quantities (40 CFR 302.4); SARA Title III, Section 313 reporting list (40 CFR 372). OAT-908 inhibitor sub-composition data on file with the inhibitor licensor.

End of Safety Data Sheet