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

Safety Data Sheet

Issue Date: 20-Apr-2026 **Review Date:** 20-Apr-2026 **Version** 1

1. IDENTIFICATION

Product Name 30% Propylene Glycol Inhibited (OAT)
Chemical Name Propylene Glycol Solution with OAT Corrosion Inhibitor Package
Other Identification Inhibited PG 30%, PG-30 OAT, Heat Transfer Fluid (Dowfrost-equivalent)
CAS Number 57-55-6 (Propylene Glycol), 7732-18-5 (Water), Proprietary inhibitor blend
SDS # AC-PG30-OAT-001
Recommended Use Heat transfer fluid, HVAC/chiller loop fluid, freeze / burst protection, closed-loop hydronic systems
Uses Advised Against Food contact applications. Open recirculation or potable water systems.

Supplier Alliance Chemical
204 South Edmond Street, Taylor, TX 76574
Phone 512-365-6838
Emergency (24 hr) CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification:
Not classified as a hazardous substance or mixture under 29 CFR 1910.1200 (OSHA HCS 2012) at the concentrations present.

Signal Word: None required

Hazard Statements:
No classified hazards at this dilution. Product may cause mild, transient eye or skin irritation upon prolonged contact.

Precautionary Statements:
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves and eye protection for extended or repeated contact.
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/container in accordance with local, regional, national, and international regulations.

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Propylene Glycol	57-55-6	27 - 33
Water	7732-18-5	65 - 70
OAT Corrosion Inhibitor Package	Proprietary	1 - 3

Note: OAT package comprises organic carboxylates and azole metal passivators. The exact composition is proprietary. Components are non-hazardous at the concentrations present in the finished blend.

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 under normal use. If inhalation of mist or aerosol causes discomfort, move to fresh air. Seek medical attention if symptoms persist.

Ingestion: Rinse mouth. Do NOT induce vomiting. Give a glass of water if victim is conscious. Seek medical attention if a large quantity is ingested.

Most Important Symptoms: Mild, transient eye or skin irritation on prolonged contact. Large oral doses may cause gastrointestinal upset.

Notes to Physician: Treat symptomatically. Propylene glycol is metabolized to lactic acid; monitor acid-base status after large ingestions.

5. FIRE-FIGHTING MEASURES

Flash Point: > 100°C (> 212°F) - closed cup (combustible, not flammable at this dilution)
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, remaining glycol phase becomes combustible.
Hazardous Combustion Products: Carbon monoxide, carbon dioxide, aldehydes, irritating organic fumes.
Protective Equipment: Wear self-contained breathing apparatus (SCBA) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use appropriate PPE. Spilled material is slippery. Ensure adequate ventilation.
Environmental Precautions: Prevent entry into waterways, sewers, basements, or confined areas. Propylene glycol may deplete dissolved oxygen in surface waters.
Methods for Containment: Dike spilled material. Absorb with inert absorbent (sand, earth, vermiculite).
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.

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.
Storage Conditions: Store in a cool, dry, well-ventilated area. Keep container tightly closed. Store between 4-40°C (40-104°F). Protect from freezing where possible; if freezing occurs, thaw and mix thoroughly before use.
Incompatible Materials: Strong oxidizing agents, strong acids, strong bases.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL	ACGIH TLV	NIOSH REL
Propylene Glycol 57-55-6	Not established	Not established (WEEL: 10 mg/m³ aerosol)	Not established
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.
Eye/Face Protection: Chemical splash goggles recommended for handling bulk quantities.
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. Use NIOSH-approved respirator where mist or aerosol exposure exceeds WEEL values.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Clear to pale yellow liquid
Odor	Mild, slight glycol odor
Odor Threshold	Not determined
pH	9.5 - 10.5
Specific Gravity (20°C)	1.050 - 1.060

Reserve Alkalinity	~9.0 mL 0.1N HCl (to pH 5.5)
Freezing Point	~ -12°C (10°F) at 30% PG
Boiling Point	~102°C (216°F)
Flash Point	> 100°C (> 212°F) closed cup
Water Solubility	Completely miscible
Vapor Pressure	< 20 mmHg @ 20°C
Vapor Density (Air=1)	> 1
Evaporation Rate	< 1 (Butyl Acetate = 1)
Auto-ignition Temperature	~371°C (700°F) — propylene glycol
Viscosity	~3 - 5 cP @ 25°C
Molecular Formula	C3H8O2 (propylene glycol)
Molecular Weight	76.10 g/mol (propylene glycol)

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.
Hazardous Decomposition Products: On combustion: carbon monoxide, carbon dioxide, aldehydes, trace organic fumes.

11. TOXICOLOGICAL INFORMATION

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Propylene Glycol 57-55-6	20,000 mg/kg (Rat)	20,800 mg/kg (Rabbit)	> 317.42 mg/L (Rat) 4h

Likely Routes of Exposure: Skin contact, eye contact; incidental ingestion.
Skin Corrosion/Irritation: Not classified. Prolonged contact may cause mild irritation.
Serious Eye Damage/Irritation: Not classified. May cause transient mild irritation.
Respiratory or Skin Sensitization: Not classified.
Germ Cell Mutagenicity: Not classified. Propylene glycol is non-mutagenic in standard assays.
Carcinogenicity: Not listed as a carcinogen by IARC, NTP, or OSHA. Propylene glycol is Generally Recognized As Safe (GRAS) by FDA for many uses.
Reproductive Toxicity: Not classified.
STOT - Single Exposure: Not classified.
STOT - Repeated Exposure: Not classified.
Aspiration Hazard: Not classified.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Propylene glycol: Fish LC50 (96h) > 10,000 mg/L (Oncorhynchus mykiss). Daphnia EC50 (48h) > 10,000 mg/L. Low acute aquatic toxicity.
Persistence and Degradability: Readily biodegradable (OECD 301). BOD5/COD > 0.5.
Bioaccumulative Potential: Not expected to bioaccumulate (log Kow = -0.92).
Mobility in Soil: Highly mobile in soil. Miscible with water.
Other Adverse Effects: Large discharges may deplete dissolved oxygen in receiving waters.

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.).

Contaminated Packaging: Rinse empty container thoroughly. Dispose of 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.
ERG Number: N/A

15. REGULATORY INFORMATION

TSCA: All components are listed on the TSCA Inventory.
CERCLA: No components listed as CERCLA hazardous substances at reportable quantities.
SARA 311/312: Acute Health Hazard: No | Chronic Health Hazard: No | Fire Hazard: No | Sudden Release of Pressure: No | Reactive Hazard: No
SARA 313: This product does not contain any chemicals subject to reporting requirements under SARA Title III, Section 313.
Clean Water Act: This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).
California Proposition 65: This product does not contain Proposition 65 listed chemicals.
WHMIS Classification: Not classified under WHMIS 2015 / HPR.

16. OTHER INFORMATION

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

End of Safety Data Sheet