

ALLIANCE CHEMICAL

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

Safety Data Sheet

Issue Date: 28-Apr-2026 Review Date: 28-Apr-2026 Version 1

1. IDENTIFICATION

Product Name 50% Propylene Glycol Inhibited (OAT)
Chemical Name Propylene Glycol Solution with OAT Corrosion Inhibitor Package
Other Identification Inhibited PG 50%, PG-50 OAT, Heat Transfer Fluid (Dowfrost-equivalent)
CAS Number 57-55-6 (Propylene Glycol), 7732-18-5 (Water), Proprietary inhibitor blend
SDS # AC-PG50-OAT-001
Recommended Use Heat transfer fluid, HVAC/chiller loop fluid, freeze / burst protection, closed-loop hydronic systems
Uses Advised Against Direct 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	47 - 53
Water	7732-18-5	45 - 50
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.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, dry chemical, foam, or carbon dioxide. Aqueous blend; non-flammable as supplied.

Specific Hazards: Combustion may produce carbon oxides, hydrocarbons, and traces of nitrogen oxides from the inhibitor package.

Protective Equipment: Self-contained breathing apparatus and full protective gear in fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate PPE. Spilled material is slippery; use caution.

Environmental Precautions: Prevent entry into waterways or sewers. Notify authorities if a significant release occurs.

Containment & Cleanup: Dike with absorbent material (sand, vermiculite, or commercial absorbent). Collect into containers for disposal. Flush residue with water.

7. HANDLING AND STORAGE

Handling: Use chemical-resistant gloves and splash-rated eye protection. Avoid prolonged skin contact. Wash hands after handling.

Storage: Store sealed indoors at 5 - 40 deg C (40 - 104 deg F). Avoid storage at temperatures below the blend freeze point (-34 deg C). Shelf life 24 months in sealed original container; 12 months once opened.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: Propylene glycol (CAS 57-55-6): not established under OSHA PEL or ACGIH TLV. AIHA WEEL 10 mg/m³ aerosol is sometimes referenced. No established limits for the OAT inhibitor package components at use concentrations.

Engineering Controls: General ventilation typically adequate. Local exhaust if mist or aerosol is generated.

Personal Protective Equipment: Chemical-resistant gloves (nitrile, neoprene), splash-rated safety glasses or full face shield, impervious apron for prolonged or large-quantity handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid (or fluorescent dye if specified)

Odor: Mild, slightly sweet

pH (as supplied): 8.5 - 10.5

Specific gravity at 20 deg C: 1.044 - 1.048

Freeze Point: ~-34 deg C

Burst Protection: ~-45 deg C

Boiling Point: >= 102 deg C (215 deg F) at 760 mm Hg

Solubility in Water: Completely miscible

Flash Point: Non-flammable as supplied (water-rich blend)

10. STABILITY AND REACTIVITY

Stable under normal conditions. Avoid strong oxidizers and strong acids. Hazardous decomposition products: carbon oxides under combustion.

11. TOXICOLOGICAL INFORMATION

Propylene glycol is generally regarded as having low acute toxicity. LD50 (oral, rat) approx. 20,000 mg/kg. Not classified as carcinogenic, mutagenic, or reproductive toxin. Eye/skin irritation potential is low at this dilution.

12. ECOLOGICAL INFORMATION

Propylene glycol is biodegradable. Low aquatic toxicity. Avoid release into waterways in significant quantities due to BOD loading.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state, and federal regulations. Do NOT discharge to storm drains or surface waters.

14. TRANSPORT INFORMATION

DOT (US): Not regulated as hazardous material.

IATA / ICAO (Air): Not regulated.

IMDG (Sea): Not regulated.

15. REGULATORY INFORMATION

TSCA: All components are listed on the TSCA Inventory.

SARA 313: Not applicable.

California Prop 65: No listed substances above threshold.

16. OTHER INFORMATION

Document: AC-PG50-OAT-001 v1 (28-Apr-2026)

Disclaimer: Information provided in good faith, believed accurate at date of issue. No warranty, express or implied. Refer to manufacturer for additional guidance.