

TECHNICAL DATA SHEET

Inhibited Propylene Glycol 25/75 with OAT Inhibitor — Data Center Coolant

25%

CAS NUMBER	ALLIANCE CODE	GENERATED
57-55-6	SHOPIFY-7990713909290	2026-09-09
REVISION	REVIEWED	
1.1	2026-08-17	

IDENTITY & COMPOSITION

PRODUCT NAME	ALLIANCE CODE
Inhibited Propylene Glycol 25/75 with OAT Inhibitor — Data Center Coolant	SHOPIFY-7990713909290
GRADE	CONCENTRATION
—	25%
CAS NUMBER	FORMULA
57-55-6 Adjudicated	C3H8O2 Adjudicated
MOLECULAR WEIGHT	PRODUCT TYPE
76.09 Adjudicated	mixture

SPECIFICATIONS

TEST	SPECIFICATION	TYPICAL	METHOD	SOURCE
Reserve alkalinity	≥ 1.5 mL at 25 vol % propylene glycol	1.8	ASTM D1121	Interpreted
Composition	25% (v/v) propylene glycol with corrosion inhibitors	Conforms	—	Interpreted

TEST	SPECIFICATION	TYPICAL	METHOD	SOURCE
Corrosion protection (multi-metal), OAT inhibitor package	ASTM D8039	Passes test	ASTM D8040 / ASTM D1881 where glycol content is below the 30% threshold of ASTM D8039	Interpreted
Propylene glycol concentration	24.0 – 26.0 % v/v	25.0 %	—	Interpreted
Chloride (Cl)	≤ 25 ppm	0.20 ppm	ASTM D3634	Interpreted
Silicate, phosphate, nitrite, nitrate, borate and amine content	None detected (< 10 ppm each)	0.3 ppm	ICP-OES / ion chromatography	Interpreted
Foaming tendency	Volume ≤ 150 mL; break time ≤ 5 s	Passes test	ASTM D1881	Interpreted
Burst protection	–1 °F (–18.4 °C) at 25 vol % propylene glycol	Passes test	Dynalene PG series data table	Interpreted

Specification values are guaranteed limits. Typical values are representative of production lots and are not guaranteed. Lot-specific certificates of analysis ship with every order.

AVAILABLE GRADES SAME CAS, ALTERNATE GRADES AND CONCENTRATIONS

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
THIS GRADE —	25%	—	current
—	50%	—	SH0PIFY-7859432226858
—	40%	—	SH0PIFY-7859432194090
—	35%	—	SH0PIFY-7990713942058

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
—	30%	—	SH0PIFY-7859429277738

Typical assay shown is the rolling-window mean from the sibling product's most recent lots. Grade selection drives downstream end-use — verify the sibling grade matches your specification before substitution.

PHYSICAL & CHEMICAL PROPERTIES

PROPERTY	VALUE	SOURCE
Appearance	Clear to pinkish liquid (dyed)	Published reference
Odor	Mild, characteristic	Published reference
pH	9–10.5	Published reference
Specific Gravity (20 °C)	1.02 (20 °C)	Published reference
Density	1.024 g/cm³	Interpreted
Boiling Point	214 °F at 25 vol % propylene glycol	Interpreted
Melting Point	14 °F (–10.1 °C) at 25 vol % propylene glycol	Interpreted
Flash Point	Not flammable (aqueous solution)	Published reference
Solubility (water)	Miscible with water	Published reference

REGULATORY & TRANSPORT

DOT / 49 CFR

UN NUMBER

Not regulated **Adjudicated**

HAZARD CLASS

Not regulated **Adjudicated**

PACKING GROUP

Not regulated **Adjudicated**

PROPER SHIPPING NAME

Not regulated **Adjudicated**

GHS / OSHA HAZCOM 2012

SIGNAL WORD

Not regulated **Adjudicated**

H-CODES (HAZARD STATEMENTS)

— **no canonical**

P-CODES (PRECAUTIONARY STATEMENTS)

— **no canonical**

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)

— **no canonical**

ACGIH TLV

— **no canonical**

NIOSH REL

— **no canonical**

NIOSH IDLH

— **no canonical**

Transport descriptions reflect 49 CFR 172.101 lookup at time of publication. Sourced data: ECHA CLP Annex VI for harmonised classifications, NIOSH Pocket Guide for REL/IDLH, OSHA Z-Tables for PEL. Always verify against the latest regulatory text before shipment-critical decisions.

APPLICATION GUIDANCE

Inhibited Propylene Glycol 25/75 with OAT Inhibitor — Data Center Coolant is a glycol-based heat-transfer and freeze-protection fluid. Concentration sets the freeze and burst protection; the inhibitor package sets how long the system stays protected from corrosion.

- Closed-loop heat transfer and process cooling
- Data-centre and chilled-water freeze protection
- HVAC hydronic loops and glycol makeup
- Freeze and burst protection for idle or seasonal systems
- Humectant and carrier applications (USP/food-grade propylene glycol only)

Verify concentration against the required freeze and burst protection, and confirm elastomer and metallurgy compatibility for the service temperature. Ethylene glycol is toxic by ingestion and must not be used where incidental food or potable contact is possible — specify a propylene glycol grade for those services.

STORAGE & HANDLING

RECOMMENDED STORAGE

Cool, dry, well-ventilated area in tightly sealed original containers. Neat glycols are combustible liquids with high flash points (roughly 99–111 °C) and do not require a solvent store; aqueous blends will not sustain combustion. Protect inhibited coolants from contamination and from freezing below their stated protection point.

Class-level guidance — not product-specific; the SDS controls.

INCOMPATIBILITIES

Strong oxidizers, strong acids and strong bases. Galvanized (zinc) surfaces are attacked by many inhibited coolant packages. Verify elastomer and gasket compatibility for the service temperature; EPDM is standard for glycol/water service.

Class-level guidance — not product-specific; the SDS controls.

For full hazard, PPE, and emergency response guidance, refer to the Safety Data Sheet (SDS) for this product. The SDS controls in all cases where guidance differs.

HANDLING PRECAUTIONS

Chemical-resistant gloves and splash goggles. Ethylene glycol grades are toxic by ingestion and must be kept away from food, drink and animals; propylene glycol grades are not. Avoid contact with hot surfaces and hot process equipment. Inhibitor packages deplete in service — monitor rather than top up blindly.

Class-level guidance — not product-specific; the SDS controls.

SHELF LIFE

Consult Technical Services for product-specific shelf life

PACKAGING & LOGISTICS

SHIPPING DESCRIPTION (US DOT)

Not regulated for transport.

Confirm against shipping documents and carrier requirements before tender.

NMFC CLASS
55

REVISION HISTORY

VERSION	DATE	CHANGE	TRIGGER
1.1	2026-08-17	Canonical data updated: 11 fields changed via the provenance/adjudication pipeline. - physicalProperties · canonical change (coa.data_provenance / adjudication) - unNumber · canonical change (coa.data_provenance / adjudication) - hazardClass · canonical change (coa.data_provenance / adjudication) - packingGroup · canonical change (coa.data_provenance / adjudication) - dotProperShippingName · canonical change (coa.data_provenance / adjudication) - dotSubsidiaryHazardClass · canonical change (coa.data_provenance / adjudication) - ghsClassification · canonical change (coa.data_provenance / adjudication) - signalWord · canonical change (coa.data_provenance / adjudication) - casNumber · canonical change (coa.data_provenance / adjudication) - formula · canonical change (coa.data_provenance / adjudication) - molecularWeight · canonical change (coa.data_provenance / adjudication)	canonical_change

This Technical Data Sheet is provided for technical reference. The Safety Data Sheet (SDS) controls in all cases where guidance differs. Values reflect Alliance Chemical canonical data at time of generation; subsequent revisions are recorded in the Revision History above.