

TECHNICAL DATA SHEET

Inhibited Ethylene Glycol 30/70 with OAT-908 — Data Center Coolant

29.98%

CAS NUMBER	ALLIANCE CODE	GENERATED
107-21-1	SHOPIFY-7858601656362	2026-09-11
REVISION	REVIEWED	
1.5	2026-07-17 · Andre Taki	

IDENTITY & COMPOSITION

PRODUCT NAME	ALLIANCE CODE
Inhibited Ethylene Glycol 30/70 with OAT-908 — Data Center Coolant	SHOPIFY-7858601656362
GRADE	CONCENTRATION
—	29.98%
CAS NUMBER	FORMULA
107-21-1 PubChem	C2H6O2 PubChem
MOLECULAR WEIGHT	PRODUCT TYPE
62.07 PubChem	mixture

SPECIFICATIONS

TEST	SPECIFICATION	TYPICAL	METHOD	SOURCE
Assay (ethylene glycol)	29.0 – 31.0 % w/w	30.0 % w/w	—	Interpreted
ASTM D1384 corrosion weight loss	copper 10 max; solder 30 max; brass 10 max; steel 10 max; cast iron 10 max; aluminum 30 max mg/specimen	Passes test	ASTM D1384	Interpreted

TEST	SPECIFICATION	TYPICAL	METHOD	SOURCE
Freeze point	6.7 °F (-14.1 °C) max	6.7 °F (-14.1 °C)	ASTM D1177	Interpreted
Reserve alkalinity	0.9 ml min.	4.8	—	Interpreted
Nitrite	720 ppm min.	810 ppm	—	Interpreted
Electrical conductivity @ 25 °C	3000 µS/cm maximum	2400	ASTM D1125	Interpreted
Silicates, phosphates, nitrites, borates, amines	None added — < 10 ppm each	0.5 ppm	ICP-OES / ion chromatography	Interpreted
Foaming tendency (volume / break time)	150 mL max / 5 s max	Passes test	ASTM D1881	Interpreted
Sulfate (SO4)	2.2 ppm max	0.15 ppm	Turbidimetric, ACS procedure	Interpreted
Heavy metals (as Pb)	0.31 ppm max	0.03 ppm	ICP-OES / ACS heavy metals procedure	Interpreted
Identity (IR)	passes test	Passes test	—	Interpreted
Acidity as Acetic Acid	0.0015% max	0.00009 %	—	Interpreted
Chloride (Cl)	0.43 ppm max	0.03 ppm	—	Interpreted

TEST	SPECIFICATION	TYPICAL	METHOD	SOURCE
Diethylene Glycol	0.015% max	0.006 %	—	Interpreted
Iron (Fe)	0.037 ppm max	0.006 ppm	—	Interpreted
Residue after evaporation	0.0016% max	0.0003 %	—	Interpreted
Composition	30 % ethylene glycol in deionized water with the OAT-908 inhibitor package, by weight	Conforms	By formulation; confirmed by specific gravity	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 —	29.98%	—	current
—	50%	—	SHOPIFY-7858635440170
—	40%	—	SHOPIFY-7858635407402
—	34.98%	—	SHOPIFY-7858635374634
—	—	—	SHOPIFY-7990803922986

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
Color	10 max	Interpreted
Odor	Mild, characteristic	Published reference
pH	9–10.5	Published reference
Specific Gravity (20 °C)	1.035 – 1.045	Interpreted
Density	1.04 g/mL at 20 °C	Published reference
Boiling Point	~104 °C	Published reference
Melting Point	–14 °C (freeze / crystallization onset)	Published reference
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**

PACKING GROUP

Not regulated **Adjudicated**

HAZARD CLASS

Not regulated **Adjudicated**

PROPER SHIPPING NAME

Not regulated **Adjudicated**

GHS / OSHA HAZCOM 2012

SIGNAL WORD

Warning **Adjudicated**

H-CODES (HAZARD STATEMENTS)

H302, H373 **Adjudicated**

P-CODES (PRECAUTIONARY STATEMENTS)

P260, P264, P270, P314, P501 **Adjudicated**

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.

APPLICATIONS

Anti-freezing agent **laballey.com**

Used in the automobile industry **laballey.com**

Applications are drawn from published manufacturer and supplier documentation; each is sourced. Suitability for a specific use is the buyer's to confirm.

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

Last reviewed 2026-07-17 by Andre Taki, DOT Hazmat Specialist.

VERSION	DATE	CHANGE	TRIGGER
1.5	2026-09-09	Canonical data updated: 1 field changed via the provenance/adjudication pipeline. physicalProperties · canonical change (coa.data_provenance / adjudication)	canonical_change
1.4	2026-07-24	Canonical data updated: 1 field changed via the provenance/adjudication pipeline. physicalProperties · canonical change (coa.data_provenance / adjudication)	canonical_change
1.3	2026-07-22	Canonical data updated: 4 fields changed via the provenance/adjudication pipeline. - 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)	canonical_change
1.1	2026-07-17	Canonical data re-verified: 12 fields updated against independent vendor SDSs, CLP Annex VI, 49 CFR, and OSHA HazCom 2024 (GHS classification, hazard/precautionary codes, signal word, physical properties as applicable). - countryOfOrigin · canonical adjudication / reground (coa.data_provenance) - dotProperShippingName · canonical adjudication / reground (coa.data_provenance) - dotSubsidiaryHazardClass · canonical adjudication / reground (coa.data_provenance) - ghsClassification · canonical adjudication / reground (coa.data_provenance) - hazardClass · canonical adjudication / reground (coa.data_provenance) - hazard_h_codes · canonical adjudication / reground (coa.data_provenance) - hazard_p_codes · canonical adjudication / reground (coa.data_provenance) - hsCode · canonical adjudication / reground (coa.data_provenance) - packingGroup · canonical adjudication / reground (coa.data_provenance) - physicalProperties · canonical adjudication / reground (coa.data_provenance) - signalWord · canonical adjudication / reground (coa.data_provenance) - unNumber · canonical adjudication / reground (coa.data_provenance)	canonical_change

VERSION	DATE	CHANGE	TRIGGER
1.2	2026-07-17	Canonical data updated: 4 fields changed via the provenance/adjudication pipeline. • unNumber · canonical change (coa.data_provenance / adjudication) • dotProperShippingName · canonical change (coa.data_provenance / adjudication) • hazardClass · canonical change (coa.data_provenance / adjudication) • packingGroup · canonical change (coa.data_provenance / adjudication)	canonical_change
1.0	2026-05-20	Initial URL—first TDS published from canonical chemistry registry.	initial

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.