

TECHNICAL DATA SHEET

Arctic Assist 50/50

USP Grade

CAS NUMBER
57-55-6

ALLIANCE CODE
arctic-assist-50-50

GENERATED
2026-07-18

1. IDENTITY & COMPOSITION

PRODUCT NAME
Arctic Assist 50/50

ALLIANCE CODE
arctic-assist-50-50

GRADE
USP Grade

CONCENTRATION
—

CAS NUMBER
57-55-6 Adjudicated

FORMULA
C3H8O2 Adjudicated

MOLECULAR WEIGHT
76.09 g/mol Adjudicated

PRODUCT TYPE
solution

AVAILABLE GRADES SAME CAS, ALTERNATE GRADES AND CONCENTRATIONS

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
THIS GRADE USP Grade	—	—	current
USP Grade	—	—	arctic-assist
USP Grade	—	—	arctic-assist-60-40

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

APPEARANCE

pink dyed liquid, low viscosity [Product record](#)

SPECIFIC GRAVITY (20 °C)

1.045 [Product record](#)

BOILING POINT

165°C (329°F) [Product record](#)

FLASH POINT

Non-flammable (50/50 propylene glycol/water blend). [Product record](#)

ODOR

Characteristic [Product record](#)

DENSITY

1.04 g/mL at 20 °C (50/50 propylene glycol/water) [Product record](#)

MELTING POINT

Freezing point ≈ -33 °C [Product record](#)

SOLUBILITY (WATER)

Moderate organic solvent solubility [Product record](#)

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

Not regulated [Adjudicated](#)

P-CODES (PRECAUTIONARY STATEMENTS)

— [unknown](#)

H-CODES (HAZARD STATEMENTS)

— [unknown](#)

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)

— [unknown](#)

NIOSH REL

— [unknown](#)

ACGIH TLV

— [unknown](#)

NIOSH IDLH

— [unknown](#)

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.

Supplier Qualification Packet

One zipped download containing the TDS, SDS, latest lot COA (when available), and a fresh Letter of Continuing Guaranty for Arctic Assist 50/50. Every file included is SHA-256 hashed and listed in a manifest your QA team can audit.

APPLICATION GUIDANCE

Arctic Assist 50/50 (USP Grade) application guidance is available on request. Contact Alliance Chemical Technical Services for grade-specific use recommendations.

STORAGE & HANDLING

RECOMMENDED STORAGE

Cool, dry, well-ventilated area in original sealed containers. Refer to product SDS for material-specific guidance.

INCOMPATIBILITIES

Consult the SDS for material-specific incompatibilities.

HANDLING PRECAUTIONS

Use standard chemical PPE — splash goggles, gloves, lab coat. Refer to SDS for hazard-specific PPE requirements.

SHELF LIFE

24 months from date of manufacture in sealed, original packaging

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.

REVISION HISTORY

Last reviewed 2026-06-30 by Andre Taki, DOT Hazmat Specialist.

VERSION	DATE	CHANGE	TRIGGER
1.1	2026-06-30	Canonical data re-verified: 7 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). - casNumber · canonical adjudication / reground (coa.data_provenance) - countryOfOrigin · canonical adjudication / reground (coa.data_provenance) - dotSubsidiaryHazardClass · canonical adjudication / reground (coa.data_provenance) - formula · canonical adjudication / reground (coa.data_provenance) - hsCode · canonical adjudication / reground (coa.data_provenance) - molecularWeight · canonical adjudication / reground (coa.data_provenance) - physicalProperties · canonical adjudication / reground (coa.data_provenance)	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.

ALLIANCE CHEMICAL

Order Arctic Assist 50/50

Bulk & packaged sizes · COA/SDS ships with every order