Technical Data Sheet

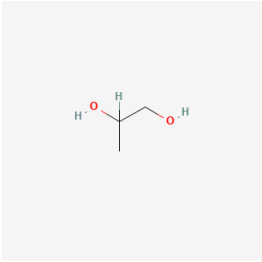
Arctic Assist 50/50 Technical Grade

Technical · 49.97%

Alliance Code	Revised	Revision
arctic-assist-50-50	2026-11-04	1.8

CAS number

57-55-6



Structure · PubChem

Grade

Technical · 49.97%

IDENTITY & COMPOSITION

PRODUCT NAME
Arctic Assist 50/50 Technical Grade

ALLIANCE CODE
arctic-assist-50-50

GRADE
Technical

CONCENTRATION
50% v/v

CAS NUMBER
57-55-6 Adjudicated

FORMULA
C3H8O2 Adjudicated

MOLECULAR WEIGHT
76.09 g/mol Adjudicated

PRODUCT TYPE
Mixture

SPECIFICATIONS

Not yet characterized — Specification limits for this product have not been published yet. Contact Technical Services for the current specification and available lot-specific documentation.

AVAILABLE GRADES SAME CAS, ALTERNATE GRADES AND CONCENTRATIONS

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
THIS GRADE Technical	49.97%	—	current
Technical	59.96%	—	arctic-assist-60-40

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
Technical	—	—	arctic-assist

Typical assay for each grade is the average of its recent lots. Confirm a grade meets your specification before substituting it.

PHYSICAL & CHEMICAL PROPERTIES

PROPERTY	VALUE	SOURCE
Appearance	Purple dyed liquid	Adjudicated
Odor	Mild, characteristic	Adjudicated
pH	Typically 7.0-9.0 (ASTM D1287); measured value reported on the lot Certificate of Analysis	Adjudicated
Specific Gravity	1.046 (20 °C)	Adjudicated
Density	1.046 g/mL at 20 °C	Adjudicated
Boiling Point	~106 °C	Adjudicated
Melting Point	Freeze point approx. -33.7 °C (-28.6 °F) at 50 % v/v propylene glycol	Adjudicated
Flash Point	Not flammable (aqueous solution)	Adjudicated
Solubility (water)	Miscible with water	Adjudicated

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 HCS 2024

SIGNAL WORD

Not regulated **Adjudicated**

H-CODES (HAZARD STATEMENTS)

Not applicable **Adjudicated**

P-CODES (PRECAUTIONARY STATEMENTS)

Not applicable **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: NIOSH Pocket Guide for REL/IDLH, OSHA Z-Tables for PEL. Always verify against the latest regulatory text before shipment-critical decisions.

APPLICATION GUIDANCE

Arctic Assist 50/50 Technical Grade (Technical) is supplied as a mixture. Refer to the component composition section and consult Alliance Chemical Technical Services for application-specific formulation guidance.

- Application-specific formulation — contact technical services

STORAGE & HANDLING

RECOMMENDED STORAGE

Keep closed in a cool place away from oxidizers. Protect from freezing below the rated freeze point. Stainless steel, carbon steel, polyethylene or polypropylene containers.

Adjudicated

HANDLING PRECAUTIONS

PPE selected per most-hazardous component. Refer to product SDS for full hazard profile.

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

INCOMPATIBILITIES

Strong oxidizing agents; strong acids; strong bases.

Adjudicated

SHELF LIFE

Consult Technical Services for product-specific shelf life

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.

PACKAGING & LOGISTICS

SHIPPING DESCRIPTION (US DOT)

```
Not regulated for transport.
```

A package holding 16,600 lb (7,560 kg), about 1,900 US gal, or more of this product contains a reportable quantity (RQ) and ships as:

```
UN3082, Environmentally hazardous substance, liquid, n.o.s. (Sodium nitrite), 9, III, RQ
```

Confirm against shipping documents and carrier requirements before tender.

NMFC CLASS
55

REVISION HISTORY

Last reviewed 2026-11-04 by Andre Taki, Chief Commercial Officer, DOT Hazmat–certified (49 CFR 172.704).

VERSION	DATE	CHANGE	TRIGGER
1.8	2026-11-04	Canonical data updated: 1 field changed via the provenance/adjudication pipeline. • `physicalProperties` · canonical change (coa.data_provenance / adjudication)	canonical_change
1.7	2026-10-13	Canonical data updated: 4 fields changed via the provenance/adjudication pipeline. • `storage_precautions` · canonical change (coa.data_provenance / adjudication) • `incompatible_materials` · canonical change (coa.data_provenance / adjudication) • `conditions_to_avoid` · canonical change (coa.data_provenance / adjudication) • `hazardous_decomposition_products` · canonical change (coa.data_provenance / adjudication)	canonical_change
1.6	2026-10-05	Canonical data updated: 1 field changed via the provenance/adjudication pipeline. • `physicalProperties` · canonical change (coa.data_provenance / adjudication)	canonical_change
1.5	2026-10-02	Canonical data updated: 2 fields changed via the provenance/adjudication pipeline. • `hazard_h_codes` · canonical change (coa.data_provenance / adjudication) • `hazard_p_codes` · canonical change (coa.data_provenance / adjudication)	canonical_change

VERSION	DATE	CHANGE	TRIGGER
1.4	2026-09-29	Canonical data updated: 1 field changed via the provenance/adjudication pipeline. • physicalProperties · canonical change (coa.data_provenance / adjudication)	canonical_change
1.3	2026-09-09	Canonical data updated: 1 field changed via the provenance/adjudication pipeline. • physicalProperties · canonical change (coa.data_provenance / adjudication)	canonical_change
1.2	2026-07-24	Canonical data updated: 1 field changed via the provenance/adjudication pipeline. • physicalProperties · canonical change (coa.data_provenance / adjudication)	canonical_change
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.