

TECHNICAL DATA SHEET

Sodium Bisulfite 25% Solution – Technical Grade (NaHSO3)

25%

CAS NUMBER
7631-90-5

ALLIANCE CODE
sodium-bisulfite-25

GENERATED
2026-07-17

1. IDENTITY & COMPOSITION

PRODUCT NAME	ALLIANCE CODE
Sodium Bisulfite 25% Solution – Technical Grade (NaHSO3)	sodium-bisulfite-25
GRADE	CONCENTRATION
—	25%
CAS NUMBER	FORMULA
7631-90-5 PubChem	HNaO3S PubChem
MOLECULAR WEIGHT	PRODUCT TYPE
104.06 PubChem	solution

AVAILABLE GRADES SAME CAS, ALTERNATE GRADES AND CONCENTRATIONS

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
THIS GRADE —	25%	—	current
—	40%	—	sodium-bisulfite-40
ACS Grade	40%	—	sodium-bisulfite-40-acs-grade
ACS	25%	—	sodium-bisulfite-25-acs-grade
—	—	—	sodium-bisulfite-10-acs-grade

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
—	—	—	sodium-bisulfite-10-technical-grade
—	—	—	sodium-bisulfite-15-acg-grade
—	—	—	sodium-bisulfite-15-technical-grade

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

Clear, colorless to light-yellow liquid

Product record

ODOR

Slight sulfur dioxide odor

Product record

SPECIFIC GRAVITY (20 °C)

~1.20

Product record

BOILING POINT

~100–102 °C

Product record

FLASH POINT

Not applicable (non-combustible aqueous solution)

Product record

FORM

Liquid

Product record

PH

3.5–5.0

Product record

DENSITY

~1.18–1.22 g/cm³ (25%, 20°C)

Product record

MELTING POINT

< 0 °C

Product record

SOLUBILITY (WATER)

Miscible with water

Product record

REGULATORY & TRANSPORT

DOT / 49 CFR

UN NUMBER

UN2693 **Vendor Label**

PACKING GROUP

III **Adjudicated**

HAZARD CLASS

8 **Adjudicated**

PROPER SHIPPING NAME

Bisulfites, aqueous solutions, n.o.s. (Sodium bisulfite) **Adjudicated**

GHS / OSHA HAZCOM 2012

SIGNAL WORD

Danger **Adjudicated**

H-CODES (HAZARD STATEMENTS)

EUH031, H302, H318 **Adjudicated**

P-CODES (PRECAUTIONARY STATEMENTS)

P264, P270, P301+P312, P330, P501 **Adjudicated**

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)

— **unknown**

ACGIH TLV

— **unknown**

NIOSH REL

— **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 Sodium Bisulfite 25% Solution – Technical Grade (NaHSO₃). Every file included is SHA-256 hashed and listed in a manifest your QA team can audit.

APPLICATION GUIDANCE

Sodium Bisulfite 25% Solution – Technical Grade (NaHSO₃) 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.

PACKAGING & LOGISTICS

SHIPPING DESCRIPTION (US DOT)

UN2693, Bisulfites, aqueous solutions, n.o.s. (Sodium bisulfite), 8, PG III

Sourced from 49 CFR 172.101. Confirm against shipping documents and carrier requirements before tender.

NMFC CLASS
65

PLACARD
Corrosive

PACKING GROUP
PG III

REVISION HISTORY

Last reviewed 2026-05-20 by Hossein Taki, Vice President (Vice President, Alliance Chemical · CAGE Code 1LT50 · DOT Hazmat Registrant #2188383).

VERSION	DATE	CHANGE	TRIGGER
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 Sodium Bisulfite 25% Solution – Technical Grade (NaHSO3)

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