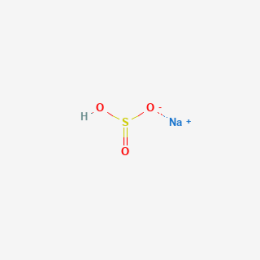
Technical Data Sheet

Sodium Bisulfite 15% ACS Grade

ACS

Alliance Code	Revised	Revision
sodium-bisulfite-15-acs-grade	2026-10-13	1.9

CAS number 7631-90-5	UN number UN2693	Hazard class · packing group 8 · PG III
 Structure · PubChem	Grade ACS	Signal word **Danger**
Hazards Corrosive · Irritant / harmful · EUH031 H302 H318		
Proper shipping name Bisulfites, aqueous solutions, n.o.s.		

IDENTITY & COMPOSITION

PRODUCT NAME
Sodium Bisulfite 15% ACS Grade

ALLIANCE CODE
sodium-bisulfite-15-acs-grade

GRADE
ACS

CONCENTRATION
15% w/w

CAS NUMBER
7631-90-5 PubChem

FORMULA
NaHSO3 PubChem

MOLECULAR WEIGHT
104.06 PubChem

PRODUCT TYPE
Solution

SPECIFICATIONS

TEST	SPECIFICATION	TYPICAL	METHOD	SOURCE
Assay (NaHSO3)	14.5 - 15.5 % w/w	—	—	Interpreted
Sulfur dioxide (SO2), available	8.9 - 9.5 % w/w	—	Iodometric titration (I2 / Na2S2O3 back-titration)	Interpreted
Chloride (Cl)	0.003 % max	—	—	Interpreted
Heavy metals (as Pb)	0.00015 % max	—	—	Interpreted
Insoluble matter	0.00075 % max	—	—	Interpreted
Iron (Fe)	0.0003 % max	—	—	Interpreted
Composition	15 % sodium hydrogen sulfite in deionized water, by weight	—	By formulation; batch weights (scale ticket)	Interpreted

Values are reproduced from the current product reference. Source labels do not by themselves establish a supplier guarantee or a test result for your lot. Confirm applicable acceptance limits and request lot-specific documentation.

AVAILABLE GRADES SAME CAS, ALTERNATE GRADES AND CONCENTRATIONS

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

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
Technical	15%	—	`sodium-bisulfite-15-technical-grade`
ACS	10%	—	`sodium-bisulfite-10-acs-grade`
Technical	10%	—	`sodium-bisulfite-10-technical-grade`

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	Clear, colorless to pale yellow liquid with sulfur odor	Adjudicated
Boiling Point	100°C (solution)	Adjudicated
Melting Point	-9 °C (16 °F), freezing point (aqueous solution)	Adjudicated

REGULATORY & TRANSPORT

DOT / 49 CFR

UN NUMBER
UN2693 Adjudicated

HAZARD CLASS
8 Adjudicated

PACKING GROUP
III Adjudicated

PROPER SHIPPING NAME
Bisulfites, aqueous solutions, n.o.s. Adjudicated

GHS / OSHA HCS 2024

SIGNAL WORD
Danger Adjudicated

H-CODES (HAZARD STATEMENTS)
EUH031, H302, H318 Adjudicated

P-CODES (PRECAUTIONARY STATEMENTS)
P264, P270, P280, P301+P312, P305+P351+P338, P310, P330, P501

Adjudicated

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)
— no canonical

ACGIH TLV
— no canonical

NIOSH REL
5 mg/m^3 TWA NIOSH Pocket Guide

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.

APPLICATIONS

Dechlorination in municipal wastewater, pulp & paper, power, and textile water treatment plants ineos.com

Oxygen scavenger and boiler water treatment ineos.com

Preservative in the photo developer process ineos.com

Flue gas desulfurization ineos.com

Food additive (source is a sodium bisulfite solution stated to meet FCC, ACS and/or USP specifications; grade-scoped to ACS handles)

ineos.com

Laboratory, research, or manufacturing use (ACS reagent grade material) digitalassets.avantorsciences.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

Keep tightly closed in a cool, ventilated area in polyethylene, fiberglass or stainless-steel containers, away from acids and oxidizers. Protect from freezing (crystallizes near 5 °C).

Adjudicated

HANDLING PRECAUTIONS

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

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

INCOMPATIBILITIES

Acids (release toxic sulfur dioxide gas); oxidizing agents; nitrites and nitrates.

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)

```
UN2693, Bisulfites, aqueous solutions, n.o.s., 8, PG III
```

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

NMFC CLASS	PLACARD	PACKING GROUP
65	Corrosive	PG III

REVISION HISTORY

Last reviewed 2026-10-13 by Andre Taki, Chief Commercial Officer, DOT Hazmat–certified (49 CFR 172.704).

VERSION	DATE	CHANGE	TRIGGER
1.9	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`

VERSION	DATE	CHANGE	TRIGGER
1.8	2026-10-08	Canonical data updated: 3 fields changed via the provenance/adjudication pipeline. • ghsClassification · canonical change (coa.data_provenance / adjudication) • hazard_h_codes · canonical change (coa.data_provenance / adjudication) • hazard_p_codes · canonical change (coa.data_provenance / adjudication)	canonical_change
1.7	2026-10-07	Canonical data updated: 3 fields changed via the provenance/adjudication pipeline. • ghsClassification · canonical change (coa.data_provenance / adjudication) • hazard_h_codes · canonical change (coa.data_provenance / adjudication) • hazard_p_codes · canonical change (coa.data_provenance / adjudication)	canonical_change
1.6	2026-10-05	Canonical data updated: 1 field changed via the provenance/adjudication pipeline. • oel_niosh_rel · canonical change (coa.data_provenance / adjudication)	canonical_change
1.5	2026-09-30	Canonical data updated: 3 fields changed via the provenance/adjudication pipeline. • boilingPoint · canonical change (coa.data_provenance / adjudication) • meltingPoint · canonical change (coa.data_provenance / adjudication) • appearance · canonical change (coa.data_provenance / adjudication)	canonical_change
1.4	2026-08-19	Canonical data updated: 1 field changed via the provenance/adjudication pipeline. • unNumber · canonical change (coa.data_provenance / adjudication)	canonical_change
1.3	2026-08-05	Canonical data updated: 3 fields changed via the provenance/adjudication pipeline. • hazardClass · canonical change (coa.data_provenance / adjudication) • packingGroup · canonical change (coa.data_provenance / adjudication) • unNumber · canonical change (coa.data_provenance / adjudication)	canonical_change
1.2	2026-07-22	Canonical data updated: 2 fields changed via the provenance/adjudication pipeline. • dotSubsidiaryHazardClass · canonical change (coa.data_provenance / adjudication) • dotProperShippingName · canonical change (coa.data_provenance / adjudication)	canonical_change

VERSION	DATE	CHANGE	TRIGGER
1.1	2026-07-17	Canonical data re-verified: 5 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) • ghsClassification · 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)	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.