

TECHNICAL DATA SHEET

Boric Acid Powder 99% Acs Grade

ACS Grade · 99%

CAS NUMBER
10043-35-3

ALLIANCE CODE
boric-acid-powder-99-ac-s-grade

GENERATED
2026-07-26

1. IDENTITY & COMPOSITION

PRODUCT NAME
Boric Acid Powder 99% Acs Grade

GRADE
ACS Grade

CAS NUMBER
10043-35-3 [PubChem](#)

MOLECULAR WEIGHT
61.84 [PubChem](#)

ALLIANCE CODE
boric-acid-powder-99-ac-s-grade

CONCENTRATION
99%

FORMULA
BH3O3 [PubChem](#)

PRODUCT TYPE
solution

PHYSICAL & CHEMICAL PROPERTIES

One or more physical-property values are temporarily suppressed pending verification against vendor COA data. For complete properties refer to the Safety Data Sheet (SDS) or contact sales@alliancechemical.com.

APPEARANCE

Boric acid is an odorless white solid. Melting point 171 °C. Sinks and mixes with water. (USCG, 1999) [Product record](#)

ODOR

Odorless [Product record](#)

BOILING POINT

572 °F at 760 mmHg (decomposes) (NTP, 1992) [Product record](#)

FLASH POINT

No data [Product record](#)

SOLUBILITY (WATER)

10 to 50 mg/mL at 66 °F (NTP, 1992) [Product record](#)

FORM

Solid [Product record](#)

DENSITY

1.435 at 68 °F (USCG, 1999) - Denser than water; will sink [Product record](#)

MELTING POINT

340 °F (NTP, 1992) [Product record](#)

VAPOR PRESSURE

1.6X10⁻⁶ mm Hg at 25 °C (2.136X10⁻⁴ Pa); log P (in Pa) = 26.83 - 9094/T where T is deg K [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

Danger **Adjudicated**

H-CODES (HAZARD STATEMENTS)

H360FD **ECHA CLP Annex VI**

P-CODES (PRECAUTIONARY STATEMENTS)

P201, P202, P280, P308+P313, P405, P501

ECHA CLP Annex VI

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)

— **unknown**

ACGIH TLV

— **unknown**

NIOSH REL

5 mg/m³ TWA **NIOSH Pocket Guide**

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 Boric Acid Powder 99% ACS Grade. Every file included is SHA-256 hashed and listed in a manifest your QA team can audit.

CATALOG EQUIVALENTS CROSS-REFERENCE VS MAJOR CHEMICAL SUPPLIERS

SIGMA-ALDRICH

SKU	GRADE	CONC.	MATCH	NOTES
B6768	ACS reagent	≥99.5%	Exact	Same ACS reagent grade.

Cross-references are informational. Confirm against the manufacturer's current specification before substitution. Competitor trademarks are property of their respective owners.

APPLICATION GUIDANCE

Boric Acid Powder 99% Acs Grade (ACS 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 2026-06-18 by Andre Taki, DOT Hazmat Specialist.

VERSION	DATE	CHANGE	TRIGGER
1.1	2026-06-18	Canonical data re-verified: 4 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) - dotSubsidiaryHazardClass · canonical adjudication / reground (coa.data_provenance) - ghsClassification · 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.

ALLIANCE CHEMICAL

Order Boric Acid Powder 99% Acs Grade

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