

TECHNICAL DATA SHEET

Boric Acid

CAS NUMBER

10043-35-3

ALLIANCE CODE

boric-acid

GENERATED

2026-07-17

1. IDENTITY & COMPOSITION

PRODUCT NAME

Boric Acid

ALLIANCE CODE

boric-acid

GRADE

—

CONCENTRATION

—

CAS NUMBER

10043-35-3 [PubChem](#)

FORMULA

BH3O3 [PubChem](#)

MOLECULAR WEIGHT

61.84 [PubChem](#)

PRODUCT TYPE

pure_substance

PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE

Passes [Vendor COA](#)

FORM

Solid [Product record](#)

ODOR

Odorless [Product record](#)

PH

4.2000 [Vendor COA](#)

DENSITY

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

BOILING POINT

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

MELTING POINT

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

FLASH POINT

N/A [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](#)

SOLUBILITY (WATER)

10 to 50 mg/mL at 66 °F (NTP, 1992) [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. Every file included is SHA-256 hashed and listed in a manifest your QA team can audit.

APPLICATION GUIDANCE

Boric Acid 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 2026-05-20 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

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