

SAFETY DATA SHEET

ProChemOnline.com

ProChem inc.

SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Boron tert-butoxide**

PRODUCT NUMBER: 1290

CAS NUMBER: 7397-43-5

SYNONYM: Tri-tert-butyl borate, boric acid, tris(1,1-dimethyl)ester, Tri-tert-butoxyborane, Tris(tert-butyl) borate, Tris(tert-butyloxy)borane.

MANUFACTURER:

ProChem, Inc.
826 Roosevelt Road
Rockford, IL 61109

PHONE: 815-398-1788
TOLL FREE: 800-795-8788

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Flammable liquid.	Category – 3
Skin corrosion / irritation	Category – 2

Pictogram 

Signal Word **Warning**

Hazard Statements

H226	Flammable liquid and vapor.

Precautionary Phrases

P210	Keep away from heat/sparks/open flames/hot surfaces.- No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370 + P378	In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to an approved waste disposal plant.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $B[(CH_3)_3CO]_3$

Molecular Weight: 230.15

CHEMICAL NAME	CAS#	%
Boron tert-butoxide	7397-43-5	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.
SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.
INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: 29° C
AUTO IGNITION TEMPERATURE: No data available
EXPLOSION LIMITS: Not data available
EXTINGUISHING MEDIUM: Water foam, carbon dioxide, and dry powder.
SPECIAL FIRE FIGHTING PROCEDURES: If involved in fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.
HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Carbon oxides and boron oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Do not breathe vapors, aerosols. Ensure adequate ventilation. Keep away from heat and sources of ignition.
ENVIRONMENTAL PRECAUTIONS: Do not allow material to be released into the environment. Do not let enter drains.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Collect in proper container for proper disposal. Clean up affected area.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Keep away from open flames, hot surfaces, and sources of ignition. Take precautionary measures against static discharge. Keep container tightly closed and in a dry and well-ventilated place.
CONDITIONS FOR SAFE STORAGE: Moisture sensitive. Keep away from heat and sources of ignition. Store in a tightly closed container in a dry and well-ventilated area.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses with side shields, or safety goggles, face shield when handling a chemical substance in the laboratory.
SKIN PROTECTION: Wear chemical-resistant gloves to protect skin.
VENTILATION: Handle in an efficient chemical fume hood.
RESPIRATOR: Wear an approved dust respirator. The use of respirators requires a Respirator Protection Program to comply with OSHA 29 CFR 19-10.134.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Clear colorless liquid
MOLECULAR WEIGHT: 230.15
BOILING POINT: 101° C

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

MELTING POINT: 18-19° C
SPECIFIC GRAVITY: 0.811
VAPOR PRESSURE: No data available
SOLUBILITY IN WATER: No data available

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Heating
INCOMPATIBILITY: Strong oxidizing agents
DECOMPOSITION PRODUCTS: Carbon oxides and boron oxides.

SECTION 11 TOXICOLOGICAL DATA

CARCINOGENIC EFFECTS: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen.
MUTAGENIC EFFECTS: No data
TETRATOGENIC EFFECTS: No data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

No information available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN1993
Flammable liquid, n.o.s.
(Boron tert-butoxide)
3
PG III

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory
SARA 311/312: Fire hazard
SARA 313 COMPONENTS: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SECTION 16 OTHER INFORMATION

CAS #: Chemical Abstracts Service Number
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety and Health Administration
UN: United Nations

SECTION 16 OTHER INFORMATION (Cont.)

n.o.s: Not Otherwise Specified
PG: Packing Group
TSCA: Toxic Substances Control Act
SARA: Superfund Amendments and Reauthorization Act

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE PREVIOUSLY PREPARED: 07/25
DATE REVISED: 07/2026
REVISION SUMMARY: Removed Fax number. All other details in this document and about the product remained unchanged. Reviewed/Approved 7/26 - Updated by EHS 7/10/26.
EHS/SDS Dept