



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Boron Ethoxide**
PRODUCT NUMBER: 1292
CAS NUMBER: 150-46-9
SYNONYM: Triethyl borate, Boric acid triethyl ester, Triethoxyborane

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

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.
P261	Avoid breathing mist or vapors.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
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.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

EYE CONTACT: Causes serious eye irritation.

SKIN CONTACT: May cause skin irritation.

INHALATION: May cause respiratory irritation.

INGESTION: May cause irritation.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $B(C_2H_5O)_3$

Molecular Weight: 145.99

CHEMICAL NAME	CAS#	%
Boron Ethoxide	150-46-9	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: 11° C

AUTO IGNITION TEMPERATURE: No data available

EXPLOSION LIMITS: Not data available

EXTINGUISHING MEDIUM: Carbon dioxide, foam, or 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 breath 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.

SECTION 7 HANDLING AND STORAGE (Cont.)

CONDITIONS FOR SAFE STORAGE: Keep container tightly closed in a dry or well-ventilated area. Store and handle under argon.

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 be in compliance with 29 CFR 19-10.134.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Clear colorless liquid

MOLECULAR WEIGHT: 145.99

BOILING POINT: 117-118° C

MELTING POINT: -84.75° C

SPECIFIC GRAVITY: No data available

VAPOR PRESSURE: 1,013 hPa

SOLUBILITY IN WATER: No data available

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Heating

INCOMPATIBILITY: No data available

DECOMPOSITION PRODUCTS: Carbon oxides and boron oxides.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Oral – Rat – female - > 2,000 mg/kg.

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

RTECS: ED5075000

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

SECTION 12 ECOLOGICAL DATA

TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES: LC50 (*Ceriodaphnia dubia* (water flea)): 5,012 mg/l -48 h.

TOXICITY TO ALGAE/AQUATIC PLANTS: ERC50 (*Pseudokirchneriella subcapitata* (green algae)): 52.4 mg/l – 72 h.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN1176

Ethyl borate

3

PG II

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 know CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

MASSACHUSETTS RIGHT TO KNOW: No components are subject to the Massachusetts Right to Know Act.

PENNSYLVANIA RIGHT TO KNOW: Boron ethoxide

NEW JERSEY RIGHT TO KNOW: Boron ethoxide

SECTION 16 OTHER INFORMATION

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.

SDS DEPT.