# 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**

| | |
|---|---|
| Flammable liquid | Category – 2 |
| Serious eye damage / irritation | Category – 2 / 2A |
| Skin Corrosion / irritation | Category – 2 |
| Specific target organ toxicity, Respiratory tract irritation | Category – 3 |

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 status 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. |

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

| | |
|---|---|
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| 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. |

## 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 OSHA compliance 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 - The following applies to boron compounds in general: resorption is followed by nausea and vomiting, agitation, spasms, CNS disorders (CNS = conditions that affect the structure or function of the brain or spinal cord).

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
Class 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 known 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

**CAS #:** Chemical Abstracts Service Number
**NIOSH:** National Institute for Occupational Safety and Health
**OSHA:** Occupational Safety and Health Administration
**C:** Celsius
**hPa:** Hectopascal
**RTECS:** Registry of Toxic Effects of Chemical Substances
**LD50:** Lethal Dose, 50%
**LC50:** Lethal Concentration, 50%.
**ERC50:** Effective Rate Concentration, 50%
**mg/l:** milligrams per liter
**h:** Hour
**UN:** United Nations
**n.o.s:** Not Otherwise Specified
**PG:** Packing Group
**TSCA:** Toxic Substances Control Act
**SARA:** Superfund Amendments and Reauthorization Act

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DATE PREVIOUSLY PREPARED: 07/25
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**REVISION SUMMARY:** Removed Fax number. Updated section # 2 categories. Section # 11 RTECS and section # 16 abbreviations. 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