

SAFETY DATA SHEET

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ProChem inc.

SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Boron Isopropoxide**

PRODUCT NUMBER: 1293

CAS NUMBER: 5419-55-6

SYNONYM: Triisopropyl borate, Boric acid triisopropyl ester, Triisopropoxyborance

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Flammable liquid	Category – 2
Skin Corrosion / irritation	Category – 2
Eye Irritation	Category – 2B
Respiratory tract irritation	Category – 3

Pictogram



Signal Word **Danger**

Hazard Statements

H225	Highly 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 status 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 + P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to an approved waste disposal plant.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $B[(CH_3)_2CHO]_3$

Molecular Weight: 188.07

CHEMICAL NAME	CAS#	%
Boron Isopropoxide	5419-55-6	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: 17° C
AUTO IGNITION TEMPERATURE: No data available
EXPLOSION LIMITS: Not data available
EXTINGUISHING MEDIUM: Carbon dioxide or dry powder foam.
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.
CONDITIONS FOR SAFE STORAGE: Keep container tightly closed in a dry or well-ventilated area. Moisture sensitive. Keep away from heat and sources of ignition.

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.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

RESPIRATOR: Wear an approved dust respirator. The use of respirators requires a Respirator Protection Program to follow all compliance with OSHA 29 CFR 1910.134.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Clear colorless liquid
MOLECULAR WEIGHT: 188.07
BOILING POINT: 139-141° C
MELTING POINT: No data available
SPECIFIC GRAVITY: 0.815
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 (warming)
INCOMPATIBILITY: No data available
DECOMPOSITION PRODUCTS: Carbon oxides and boron oxides.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Oral – Mouse – 2,500 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: ED5950000 - 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

No information available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN2616
Triisopropyl Borate
3
PG II

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory
SARA 311/312: Fire hazard. Chronic Health 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: Boron Isopropoxide
PENNSYLVANIA RIGHT TO KNOW: Boron Isopropoxide

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
RTECS: Registry of Toxic Effects of Chemical Substances
LD50: Lethal Dose, 50%
mg/kg: milligrams per kilogram
UN: United Nations
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