

SAFETY DATA SHEET

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ProChem inc.

SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Barium Ethoxide 10% w/v in Ethanol**

PRODUCT NUMBER: 1187-1

SYNONYM: Barium(2+) diethanolate

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Flammable Liquids.	Category – 1
Skin corrosion / irritation.	Category – 1, 1A
Specific target organ toxicity: Respiratory irritation.	Category - 3

Pictogram 

Signal Word **Danger**

Hazard Statements

H225	Highly flammable liquid and vapor.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.

Precautionary Phrases

P210	Keep away from heat/sparks/open flames/hot surfaces.- No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash face, hands, and any exposed skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P370 + P378	In case of fire: Use Carbon dioxide, dry chemical, or foam for extinction.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	%
Barium Ethoxide	2914-19-4	10
Ethyl Alcohol	64-17-5	90

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 soap and 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: 14° C
AUTO IGNITION TEMPERATURE: No data available
EXPLOSION LIMITS: Not data available
EXTINGUISHING MEDIUM: Carbon dioxide, dry chemical, dry sand, or alcohol-resistant 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 barium oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid inhalation of dusts. 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: Soap up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. Keep away from open flames, hot surfaces, and sources of ignition. Use only non-sparking tools.
CONDITIONS FOR SAFE STORAGE: Keep away from heat and sources of ignition. Keep containers tightly closed in a dry, cool, and well-ventilated area.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Ethyl Alcohol	1900 mg/m^3	TWA	NIOSH
	1000 ppm	STEL	ACGIH
Barium Ethoxide	0.5 mg/m^3	TWA	ACGIH
	0.5 mg/m^3	TWA	NIOSH

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 accordance with OSHA 29 CFR 19-10.134.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Clear yellow to orange/brown solution
MOLECULAR WEIGHT: 227.42
BOILING POINT: No data available
MELTING POINT: No data available
SPECIFIC GRAVITY: No data available
VAPOR PRESSURE: No data available
SOLUBILITY IN WATER: No data available

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Moisture sensitive.
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Keep away from open flames, hot surfaces, and sources of ignition.
INCOMPATIBILITY: Strong oxidizing agents
DECOMPOSITION PRODUCTS: Carbon oxides and barium oxides.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: Ethyl Alcohol - LD50 Oral – Rat – 10470 mg/kg. LD50 Oral – Mouse – 3450 mg/kg. LC50 Inhalation – 117-125 mg/l – 4h.
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 available
TETRATOGENIC EFFECTS: No data available

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

SECTION 12 ECOLOGICAL DATA

ECOTOXICITY: Contains a substance which is toxic to aquatic organisms.

Component	Freshwater Algae	Freshwater Fish	Water Flea
Ethyl Alcohol	EC50 = (72 h) – 275 mg/l	LC50 = 14200 mg/l/96h	EC50 = 928 mg/L/48h

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN3274
Alcoholates solution, n.o.s.
(Barium ethoxide 10% w/v in ethanol)
3 (8)
PG II

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

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.

CALIFORNIA PROP. 65: Ethyl Alcohol

MASSACHUSETTS RIGHT TO KNOW: Ethyl Alcohol

NEW JERSEY RIGHT TO KNOW: Ethyl Alcohol, Barium Ethoxide

PENNSYLVANIA RIGHT TO KNOW: Ethyl Alcohol, Barium Ethoxide

ILLINOIS RIGHT TO KNOW: Ethyl Alcohol

RHODE ISLAND RIGHT TO KNOW: Ethyl Alcohol, Barium Ethoxide

SECTION 16 OTHER INFORMATION

CAS #: Chemical Abstracts Service Number
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety and Health Administration
ACGIH: American Conference of Governmental Industrial Hygienists
TWA: Time-Weighted Average
STEL: Short-Term Exposure Limit
mg/m3: milligrams per cubic meter
ppm: parts per million
mg/l: milligrams per liter
h: Hour
LD50: Lethal Dose, 50%
LC50: Lethal Concentration, 50%.
EC50: Lethal Concentration, 50%
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 PREPARED: 07/25
DATE REVISED: 07/26
REVISION SUMMARY: Removed Fax number. Updated section # 2 categories. Updated section # 16 abbreviations. All other details in the document about the product remained unchanged. Updated by EHS 7/13/26 –

Reviewed/Approved on.7/13/26.
EHS/SDS DEPT.