SAFETY DATA SHEET

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ProChem inc.

SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Barium Rod**

PRODUCT NUMBER: 1171

CAS NUMBER: 7440-39-3

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram

Signal Word **Danger**

Hazard Statements

H261	In contact with water released flammable gases.
H228	Flammable solid.

Precautionary Phrases

P210	Keep away from heat/sparks/open flams/hot surfaces-No smoking.
P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P231+P232	Handle under inert gas. Protect from moisture.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
H261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P370+P378	In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction.
P402+P404	Store in a dry place. Store in a closed container.

HMIS CLASSIFICATION:
Health: 2 Fire: 3 Reactivity Hazard: 1
NFPA RATING:
Health: 2 Flammability: 3 Reactivity Hazard: 1 Special Hazard: W

EYE CONTACT: May cause mild to moderate irritation of the eyes.
SKIN CONTACT: Causes mild irritation of the skin.
INHALATION: Inhalation of dust can lead to irritation of the nasal cavity, mucous membranes, and respiratory tract.
INGESTION: May be irritating if inhaled.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Ba

Molecular Weight: 137.34

CHEMICAL NAME	CAS#	%
Barium Rod	7440-39-3	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 to fresh air and keep at rest. 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: Not applicable
AUTO IGNITION TEMPERATURE: Not available
EXPLOSION LIMITS: Not available
EXTINGUISHING MEDIUM: Special powder for metal fires. Do not use water.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. Highly flammable. Contact with water liberates extremely flammable gases.
HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Barium oxide

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid dust formation. Avoid breathing dust. Keep away from ignition sources.
ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing to be released into the environment.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Material is a metal rod. Pick up and place in suitable container for proper disposal. Do not flush with water.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Use with adequate ventilation. Avoid contact with skin and eyes. Keep away from sources of ignition-No smoking. Protect against electrostatic charges. Reacts violently with water.
CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area. Store away from water, moisture, and air. Store under dry inert gas. Protect from humidity and water.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Barium	0.5 mg/m^3	TWA	ACGIH
	0.5 mg/m^3	PEL	OSHA

TWA: Time Weighted Average over 8 hours of work. PEL: Permissible Exposure Limit

EYE PROTECTION: Wear chemical safety glasses or goggles and face shield.
SKIN PROTECTION: Wear nitrile or rubber gloves, apron, or lab coat.
VENTILATION: Provide local exhaust, preferably mechanical.
RESPIRATOR: Use an approved respirator.
ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Grey Rod
ODOR: None
MOLECULAR WEIGHT: 137.34
BOILING POINT: 1640° C
MELTING POINT: 727°C
SPECIFIC GRAVITY: 3.6 gm/ml
VAPOR DENSITY: No data available
SOLUBILITY: Reacts violently with water

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Contact with water or of any oil free fine dust with air.
INCOMPATIBILITY: Air, water, moisture, oxidizing agents, chlorinated solvents, carbon dioxide, halogens, alcohols, sulfur compounds, and hydrogen sulfide gas.
DECOMPOSITION PRODUCTS: Barium oxide

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: Not available
CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.
MUTAGENIC EFFECTS: Not available
TETRATOGENIC EFFECTS: Not available
RTECS: CQ8370000

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

SECTION 12 ECOLOGICAL DATA

TOXICITY TO FISH: Mortality NOEC-Cyprinodon variegatus (sheepshead minnow) – 500 mg/l – 96 h. LC50-Cyprinodon variegatus (sheepshead minnow) - >500 mg/l – 96 h.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN1400
Barium
Class 4.3
PG II

Marine Pollutant: No

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory
SARA 302/304: Not listed
SARA 311/312: Reactivity Hazard, Acute Health Hazard

SECTION 15 REGULATORY INFORMATION (Cont.)

SARA (TITLE 313): Barium

MASSACHUSETTS RIGHT TO KNOW: Barium

PENNSYLVANIA RIGHT TO KNOW: Barium

NEW JERSEY RIGHT TO KNOW: Barium

CALIFORNIA PROP. 65: Not Listed

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.

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