



# SAFETY DATA SHEET

ProChemOnline.com



## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Barium Isopropoxide**

PRODUCT NUMBER: 1201

CAS NUMBER: 24363-37-9

### MANUFACTURER:

Prochem, Inc.  
826 Roosevelt Road  
Rockford, IL 61109

PHONE: 815-398-1788  
FAX: 815-398-1810  
TOLL FREE: 800-795-8788

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Warning**

### Hazard Statements

H252	Self-heating in large quantities, may catch fire.
H302+H332	Harmful if swallowed or if inhaled.
H319	Causes serious eye irritation.

### Precautionary Phrases

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P235+P410	Keep cool. Protect from sunlight.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P407	Maintain air gap between stacks/pallets.
P410	Protect from sunlight.

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

### HMIS CLASSIFICATION:

Health: 2                      Chronic: \*                      Fire: 0                      Reactivity Hazard: 1

### NFPA RATING:

Health: 2                      Flammability: 0                      Reactivity Hazard: 1

**EYE CONTACT:** Causes severe burns to the eyes. Can cause permanent eye damage.

**SKIN CONTACT:** Can cause severe irritation, burns to skin, depending on exposure.

**INHALATION:** Hazard associated with inhalation of dust or fume. Corrosive to mucous membranes.

**INGESTION:** Acutely destructive to digestive tract.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Ba(OC<sub>3</sub>H<sub>7</sub>)<sub>2</sub>

Molecular Weight: 255.50

CHEMICAL NAME	CAS#	%
Barium Isopropoxide	24363-27-9	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 soap and 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:** Carbon dioxide, sand, extinguishing powder. Do not use water.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Carbon oxides and barium oxide

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid the formation of dust. Avoid breathing vapors, mist, gas, or dust.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains or allowing to be released into the environment.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Pick up and arrange disposal without creating dust. Sweep up and keep in suitable, closed containers for disposal.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid formation of dust.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Store under dry inert gas. Store away from oxidizing agents, strong bases, water, and moisture. Protect from humidity and water. Protect from exposure to light.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Barium Isopropoxide	0.5 mg/m <sup>3</sup>	TWA	OSHA
	0.5 mg/m <sup>3</sup>	TWA	ACGIH

TWA: Time Weighted Average over 8 hours of work.

**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:** White powder

**ODOR:** None

**MOLECULAR WEIGHT:** 255.50

**BOILING POINT:** No data available

**MELTING POINT:** 200°C

**SPECIFIC GRAVITY:** 0.89

**VAPOR DENSITY:** No data available

**SOLUBILITY IN WATER:** Reacts and decomposes with water

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Spontaneously flammable in air. Air and moisture reactive material.

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Exposure to air, moisture, and all sources of ignition.

**INCOMPATIBILITY:** Air, moisture and oxidizing agents.

**DECOMPOSITION PRODUCTS:** Carbon oxides and barium oxides

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 Oral – 3600 mg/kg (mouse). LD50 Oral – 5000 mg/kg (rat). LD50 Dermal – 12800 mg/kg (rabbit). LC50/8h Inhalation -16000 ppm/8H (rat).

**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

**TETRAOGENIC EFFECTS:** Not available

**RTECS:** Not available

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

## SECTION 12 ECOLOGICAL DATA

No data available

## SECTION 13 DISPOSAL CONSIDERATIONS

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

## SECTION 14 TRANSPORTATION DATA

UN3205

Alkaline earth metal alcoholates, n.o.s.

(Barium Isopropoxide)

Class 4.2

PG III

Marine Pollutant: No

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Not listed in the TCSA

**SARA 302/304:** Not listed

**SARA 311/312:** Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard

**SARA (TITLE 313):** Barium Isopropoxide

**PENNSYLVANIA RIGHT TO KNOW:** Barium Isopropoxide

**NEW JERSEY RIGHT TO KNOW:** Barium Isopropoxide

**CALIFORNIA PROP. 65:** Not Listed

**WHMIS CANADA:** Class D-1A: Very toxic material causing immediate and serious toxic effects. Class D-2A: Very toxic material causing other toxic effects.

## SECTION 16 OTHER INFORMATION

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