

MATERIAL SAFETY DATA SHEET

PRMI

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SECTION 1 Product Identification

CHEMICAL NAME: BARIUM ISOPROPOXIDE

FORMULA: Ba(OC₃H₇)₂

CAS REGISTRY NUMBER: 24363-37-9

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	24363-37-9	100	0.5 mg/m ³	0.5 mg/m ³

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Spontaneously Flammable in air. Corrosive Air & Moisture Reactive
Strong corrosive effect on skin, eyes and mucous membranes. Corrosive effect by ingestion.

PRIMARY ROUTES OF EXPOSURE: Ingestion, inhalation (dust or fume)

EYE CONTACT: Causes severe burns to eyes. Can cause permanent eye damage; blindness

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.

ACUTE AND CHRONIC TOXICITY: Acutely destructive to respiratory tract, eyes, skin and digestive tract. Eye contact may result in permanent damage and complete vision loss. Inhalation may result in respiratory effects such as inflammation, edema and chemical pneumonitis. May cause coughing, wheezing, shortness of breath, laryngitis, headache, nausea and vomiting. Ingestion may cause damage to the mouth, throat and esophagus. May cause skin burns or irritation depending on severity of exposure. It can cause corneal burns on contact with the eyes. Material has caused teratogenic, mutagenic and reproductive effects in laboratory animals.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water (lukewarm if possible) 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. Rinse thoroughly. Remove contaminated clothes if necessary. Seek immediate medical advice.

INHALATION: Remove 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 give oxygen and seek immediate medical attention.

INGESTION: Seek medical assistance immediately. Keep victim calm.

SECTION 5 Firefighting Measures

FLASH POINT: Pyrophoric; Spontaneously flammable in air.

EXPLOSION LIMITS: No Data

EXTINGUISHING MEDIUM: CO₂, Dry powder or foam. **DO NOT USE WATER!**

SPECIAL FIREFIGHTING PROCEDURES: If this product is involved in a 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: Barium oxide vapor, carbon monoxide and carbon dioxide.

UNUSUAL FIRE OR EXPLOSION HAZARDS: May spontaneously ignite on exposure to air, especially in the form of a fine dust. This product is water and moisture reactive.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: In the case of a spill, keep unprotected persons away. Wear protective equipment. Keep away from ignition sources. Cover with sand, carefully transfer into a well-marked container for disposal. Ventilate area.

DISPOSAL: Dispose of in accordance with all waste disposal regulations.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Keep in a tightly sealed container. Store in a cool dry area. Store under nitrogen or argon. Keep away from all sources of ignition. Keep away from moisture/water. Store away from oxidizers.

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles when handling a chemicals substance in the laboratory.

SKIN PROTECTION: Wear appropriate chemical resistant gloves. (rubber, neoprene)

VENTILATION: Glove bag or box under dry, inert atmosphere.

RESPIRATOR: If ventilation is not available, a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29CFR 1910.34.

ADDITIONAL PROTECTION: Use in a controlled environment. Eyewash station, emergency shower should be readily available in case of emergency. Do not eat, drink, smoke in area.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: Off white powder

MOLECULAR WEIGHT: 255.52

MELTING POINT (DEG. C.): 200 (decomposes)

SPECIFIC GRAVITY (WATER = 1): No Data

BOILING POINT: No Data

VAPOR PRESSURE: Not applicable

VAPOR DENSITY (AIR = 1): Not applicable

% VOLATILE BY VOLUME: No Data

SOLUBILITY IN WATER: Reacts

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, all sources of ignition.

INCOMPATIBILITY: Air, moisture, oxidizing agents.

DECOMPOSITION PRODUCTS: Barium oxide vapor, carbon monoxide, carbon dioxide, flammable gases

SECTION 11 Toxicological Information

CARCINOGENIC EFFECTS: Inadequate data to classify as a human carcinogen.

MUTAGENIC EFFECTS: Found in laboratory animals

TETRATOGENIC EFFECTS: Found in laboratory animals

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

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: Do not allow material to be released into the environment.

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Alkaline earth metal alcoholates, n.o.s. (Barium isopropoxide)

Class 4.2 UN 3205 PG III Spontaneously Combustible Label

SECTION 15 Regulatory Information

TSCA: Listed in TSCA Inventory Uses of this product is restricted to research and development only.

SARA (TITLE 313): This material contains barium and is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40CFR372.

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. For research and development only.

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