



Hummel Croton Inc.  
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MSDS



**In case of Emergency Call Chemtrec ®**  
(U.S.) (800)-424-9300  
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## Barium Peroxide

### Section I. Chemical Product and Company Identification

**Supplier:**

Hummel Croton Inc.  
10 Harmich Road  
South Plainfield, NJ 07080  
(908)-754-1800

**Chemical Name:** Barium Peroxide

**Synonym:** Barium Dioxide

**CAS Number:** 1304-29-6

**Chemical Formula:** BaO<sub>2</sub>

HMIS Rating

Health	3
Flammability	0
Reactivity	3
Personal Protection	E

### Section II. Composition and Information on Ingredients

Material	CAS#	%	OSHA	ACGIH
Barium Peroxide	1304-29-6	92-96%	0.5mg (Ba)/m <sup>3</sup>	0.5mg (Ba)/m <sup>3</sup>
Barium Oxide	1304-28-5	4-8%	0.5mg (Ba)/m <sup>3</sup>	0.5mg (Ba)/m <sup>3</sup>

### Section III Hazards Identification:

**Accute Health Effects:** Harmful if swallowed, inhaled, or absorbed through skin. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. Inhalation may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

**Chronic Health Effects:** This product has no known chronic effects. Repeated or prolong exposure to this compound is not known to aggravate medical conditions.

**Accute Health Effects:** This product is not listed by NTP, IARC or regulated as a Carcinogen by OSHA.

### Section IV. First Aid Measures

**First Aid For Eye:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**First Aid For Skin:** In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

**First Aid For Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**First Aid For Ingestion:** If swallowed, call a physician immediately.

## Section V. Fire and Explosion Data

**Flammability:** Non-Flamable

**Flash Points:** Not Applicable

**Auto-Ignition:** Not Applicable

**Flammable Limits:** Not Applicable

**Extinguishing Media:** Dry Chemical Powder

**Fire Fighting Procedure:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Strong Oxidizer.

**Fire/Explosion Hazards:** Emits toxic fumes under fire conditions. Contact with other material may cause fire.

## Section VI. Accidental Release Measures

**Spill Or Leak Procedures:** Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water

## Section VII. Handling and Storage

**Storage Temperatures:** Store at ambient temperature

**Shelf Life:** Unlimited in tightly closed container.

**Special Sensitivity:** None

**Handling/Storage Precautions:** Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials (see Section X). Reseal containers immediately after use. Store away from food and beverages.

## Section VIII. Exposure Controls/Personal Protection

**Eye Protection:** Safety glasses or goggles.

**Skin Protection:** PVC gloves with impervious boots, apron or coveralls. Employees should wash their hands and face before eating, drinking or using tobacco products.

**Respirator:** Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.

**Ventilation:** Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.

**Additional Protective Measures:** Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous chemicals.

## Section IX. Physical and Chemical Properties

**Physical Form:** Powder

**Color:** Tan to Brown

**Odor:** Odorless

**Molecular Weight:** 169.36

**Boiling Point:** Not Applicable

**Melting/Freezing Point:** - O at ~800°C

**Solubility In Water:** Insoluble

**Specific Gravity:** 4.958

## Section X. Stability And Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will Not occur

**Incompatibilities:** Strong bases, Acids & Finely powdered metals

**Instable Conditions:** Excessive temperatures (see Incompatibilities).

**Decomposition Temperature:** - O at ~800°C

**Decomposition products:** Oxides of Barium

## Section XI. Toxicological Infomation

**RTECS Number:** CR0175000

**Routes of Exposure:** Eye contact. Ingestion. Inhalation. Skin contact.

**Toxicity Data:** scu-mus LD50:50 mg/kg

**Chronic Toxic Effects:** This material has not been fully tested.

**Acute Toxic Effects:** Harmful if swallowed, inhaled, or absorbed through skin. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. Inhalation may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

## Section XII. Ecological Information

**Ecotoxicity:** Not available at this time.

## Section XIII. Disposal Considerations

**Waste Disposal Method:** Waste disposal should be in accordance with existing federal, state and local environmental regulations.

## Section XIV. Transportation Information

**Proper Shipping Name:** Barium Peroxide

**UN Number:** 1449

**Class:** 5.1

**P.G.:** II

**Label Code:** 5.1(6.1)

## Section XV. Regulatory Information

**OSHA Status:** This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

**TSCA Chemical Inventory:** This compound is on the EPA Toxic Substance Control Act (TSCA) inventory List

**California Proposition 65:** To the best of our knowledge, this product contains no levels of listed substances, which the state of California has found to cause cancer, birth defects or other reproductive effects.

**SARA 313 Title III:**

Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: This product may be subject to SARA Section 313 reporting (Barium Content 81.1%)

## Section XVI. Other Information

**Prepared By:** Mark Dugan

**Date:** January, 2009

**Reason For Issue:** Updated Format

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