

MATERIAL SAFETY DATA SHEET

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SECTION 1 Product Identification

CHEMICAL NAME: Barium hydroxide octahydrate
CAS REGISTRY NUMBER: 12230-71-6
FORMULA: Ba(OH)₂·8H₂O

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	12230-71-6	100	0.5mg/m ³ (Ba-sol)	0.5mg/m ³ (Ba-sol)

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: In contact with the human body, chemical burns may result. Absorbable barium compounds are generally poisonous when taken by mouth.

PRIMARY ROUTES OF EXPOSURE: Ingestion, inhalation, skin and eyes

EYE CONTACT: May cause severe irritation of the eyes resulting in redness, chemical burns and watering

SKIN CONTACT: Prolonged contact with moist skin may cause irritation or chemical burns.

INHALATION: May cause difficulty in breathing and irritate the mucous membranes and respiratory tract.

INGESTION: Ingestion may cause stomach cramps, vomiting, ulceration, and acute barium poisoning.

CHRONIC HEALTH EFFECTS: Barium may form a protein adduct in serum and deposit in bone. Long term exposure to dust may cause baritosis, a benign pneumoconiosis

ACUTE HEALTH EFFECTS: May be irritating to skin, eyes and respiratory tract. Barium poisoning causes muscular tremors, convulsions, and death from respiratory and cardiac failure.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation or redness persists.

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 seek immediate medical assistance.

INGESTION: Seek medical attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.