

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Barium carbonate
CAS #: 513-77-9
FORMULA: BaCO₃
SYNONYM: Barium monocarbonate, Carbonic acid, barium salt

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	513-77-9	100	0.5mg/m ³ (as Ba)	0.5mg/m ³ (as Ba)

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Harmful if swallowed.
PRIMARY ROUTES OF EXPOSURE: Ingestion
EYE CONTACT: May cause slight to mild irritation of the eyes.
SKIN CONTACT: May cause slight to mild irritation of the skin.
INHALATION: May cause difficulty in breathing, tightness of the muscles of the face and neck.
INGESTION: Ingestion may cause vomiting, irregular heartbeat, pain, tremors, convulsions, and cardiac arrest.
CHRONIC HEALTH EFFECTS: Long term exposure to dust may cause baritosis, a benign pneumoconiosis. Possible risk of impaired fertility.
ACUTE HEALTH EFFECTS: Harmful if swallowed. Barium forms a protein adduct in serum and is deposited in bone.

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 the 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 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: none

EXPLOSION LIMITS: none

EXTINGUISHING MEDIUM: none required

SPECIAL FIREFIGHTING PROCEDURES: If 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: None

UNUSUAL FIRE OR EXPLOSION HAZARDS: No unusual fire or explosion hazard

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: Small spills can be mixed with powdered sodium carbonate or ground limestone and swept up.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container away from moisture.

SECTION 8 Exposure Controls and Personal Protection

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

SKIN PROTECTION: Chemical-resistant.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: white powder

MOLECULAR WEIGHT: 197.35

MELTING POINT (DEG. C.): none

BOILING POINT: no data

VAPOR PRESSURE: not applicable

SPECIFIC GRAVITY: 4.43

SOLUBILITY IN WATER: .002g/100cc (20°C)

SECTION 10 Stability and Reactivity

STABILITY: air and moisture stable

HAZARDOUS POLYMERIZATION: no hazardous polymerization

CONDITIONS TO AVOID: strong acids

INCOMPATIBILITY: strong acids

DECOMPOSITION PRODUCTS: none

SECTION 11 Toxicological Information

RTECS DATA: Oral (Human-man); LDLo: 800 mg/kg. Oral (Human-woman), TDLo: 800 mg/kg. Oral (Human); TDLo: 11 mg/kg. Oral (Human); LDLo: 17 mg/kg. Oral (Human); TDLo: 29 mg/kg. Oral (rat); LD50: 418 mg/kg. Intravenous (rat); LDLo: 20 mg/kg. Oral (mouse); LD50: 200 mg/kg. Intraperitoneal (mouse); LD50: 50 mg/kg. Oral (dog); LDLo: 400 mg/kg. Oral (cat); LDLo: 4 mg/kg. Inhalation (rat); TCLo: 5200 ug/m³/17W-1. Intratracheal (rat); TDLo: 750 mg/kg/13W-1. Inhalation (rat); TCLo: 1150 ug/m³/24H. Inhalation (rat); 3130 ug/m³/24H.

MUTAGENIC EFFECTS: no data

TETRATOGENIC EFFECTS: no data

CARCINOGENIC EFFECTS: no data

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

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

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

SECTION 14 Transportation Information

Barium compounds, n.o.s., Class 6.1, UN 1564, PG III

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (TITLE 313): Title compound : See category N040 for reporting.

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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