MATERIAL SAFETY DATA SHEET
OSHA HAZARD COMMUNICATION RULE

CHEMICAL IDENTITY

LABEL IDENTITY: BARIUM
FORMULA: Ba
CHEMICAL FAMILY: METAL
CAS REGISTRY NUMBER: 7440-39-3
POISON: OSHA/TWA: 0.5mg(Ba)/m3

PHYSICAL AND CHEMICAL PROPERTIES

COLOR, FORM: Yellowish-white or silver-white metal
ODOR: ND
BOILING POINT: 1600°C
DENSITY (gm/cc): ND
VAPOR PRESSURE @ 20°: ND
% VOLATILE BY VOLUME (%): ND
REACTION WITH WATER: Decomposes in water
EVAPORATION RATE (H2O=1): ND
SOLUBILITY IN ALCOHOL: Soluble
MELTING POINT: 710°C
SPECIFIC GRAVITY: 3.6

FIRE AND EXPLOSION HAZARD DATA

Dangerous and explosive in form of dust when exposed to heat or flame or by chemical reaction.

INCOMPATIBLE WITH: acids, Cl4, C2Cl3F, C2H2FCI3, C2Cl4, C2HCl3, water, 1,1,2-trichloro trifluoro ethane, fluorotrichloroethane, fluorotrichloromethane can detonate in contact with barium.

HEALTH HAZARD INFORMATION

TOXICITY DATA: No data

HMIS RATING:
HEALTH: ND  FLAMMABILITY: ND  REACTIVITY: ND  PERSONAL PROTECTION: ND
HEALTH HAZARD INFORMATION CONTINUED

Routes of Entry

INHALATION: Yes
SKIN: Yes
INGESTION: Yes
EYE: Yes

Medical Conditions Aggravated by Overexposure: Respiratory Disorders

Poisoning due to metallic barium or insoluble barium compounds is virtually unknown in industry. Soluble barium salts are poisonous when taken by mouth. They are somewhat caustic and irritating to eyes, skin, mucous membranes. Accidental poisoning from ingestion of soluble Barium salts may result in severe abdominal pain, vomiting, dyspnea, muscular paralysis, cyanosis, death.

Emergency and First Aid Procedures:

INGESTION: call a physician or poison control center
INHALATION: remove to fresh air
SKIN CONTACT: wash with soap and water.
EYE CONTACT: flush with water for at least 15 minutes, call a physician.

Safe Handling Procedures

Wear rubber gloves, safety glasses or goggles, protective clothing. Use dust mask or respirator if exposed to dust or fumes. Store in tightly closed containers, protect from heat and flame.

Spill/Leak Information

Sweep or scoop up, dispose of in approved landfill site in accordance with federal, state and local regulations.

References:


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NA= NOT APPLICABLE
ND= NO DATA FOUND