Westco Chemicals, Inc.

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Data Sheet

Material Safety Data Sheet
Barium Carbonate

Suppliers Name: Westco Chemicals, Inc.
Address: 12551-61 Saticoy Street South
North Hollywood, CA 9160
Telephone: 818-255-3655 or 323-877-0077

EMERGENCY TELEPHONE NUMBER: 800-424-9300 CHEMTREC

1. Identification

Product Name: Barium Carbonate
Chemical Name: Barium Carbonate
Formula: $BaCO_3$
Molecular Weight: 197.35
CAS No.: 513-77-9

2. Composition / Information on Ingredients

Chemical Name: Barium Carbonate
CAS #: 513-77-9
ACGIH TLV: 0.5 mg/m³ for soluble Barium compounds as Barium (0.74 mg/m³ as $BaCO_3$).
(1992-1993)

3. Hazard Identification

Route of Exposure: Ingestion, Inhalation, Skin or Eye

Skin: Barium is not likely to penetrate intact skin; penetration through cuts may cause symptoms of over-exposure. A slight irritation may result from the alkaline nature of the product.

Eye: Particles in the eye may cause pain, tearing and irritation.

4. First Aid Measures

Inhalation: Flush mouth and nasal passages with water. Have victim drink solution of 1 Tablespoon of Epson Salt (Magnesium Sulfate) or Glauber's Sulfate (Sodium Sulfate) dissolved in water. Call for medical attention.

Eyes: Flush eyes with water until irritation subsides. Get medical attention if necessary.

Skin: Wash with water and soap is available. Remove contaminated clothing and wash before re-use.

Ingestion: Have victim drink solution of 1 Tablespoon of Epson Salt (Magnesium Sulfate) or Gluaber's Sulfate (Sodium Sulfate) dissolved in water. Induce vomiting if victim is completely conscious. Call for medical attention.

Regulatory / Carcinogenicity: Barium carbonate is not considered carcinogenic (1993 study of Barium Chloride showed no evidence).

Medical Conditions Aggravated by Exposure: Acute over-exposure will cause severe abdominal pain, violent purging with watery bloody stools, vomiting, muscle twitching and confusion, followed by muscle paralysis of the respiratory muscles, which may be fatal.

5. Fire Fighting Measures

Common Extinguishing Methods: Foam or Water

Inappropriate Extinguishing Methods: NA

Specific Hazards: Will decompose releasing Carbon Dioxide gas at extremely high temperatures.

Protective Measures in case of Intervention: NA

Other Precautions: Limit water runoff if it is likely to contain suspended product.

6. Accidental Release Measures

Try to keep material dry. Prevent runoff from entering sewers or ditches connected with natural waterways. Dispose of appropriately in compliance with local, state and federal laws and regulations.

7. Handling and Storage

General storage conditions are not critical. Keep material dry. Store separate from acids. Emptied containers may present a toxic hazard. Treat or dispose of empty containers in compliance with local, state and federal laws and regulations.

8. Exposure Controls / Personal Protection

Engineering Controls: Control airborne concentrations below the exposure limit. Use only with adequate ventilation.

Respiratory Protection: Use NIOSH approved dust mask.

Hand Protection: Wear impervious gloves.

Eye Protection: Wear safety glasses. Use chemical goggles if excessive dust is present.

Skin Protection: Cover exposed skin areas.

9. Physical and Chemical Properties

Appearance: Solid, white powder or granules

Odor: Usually odorless

pH: 9 (measures in a 1% suspension in water)

Boiling Point / Range : NA

Melting Point / Range: 1400 ºC (2552ºF) - near decomposition temperature.

Flash Point: NA

Flammability: NA
Lower Limit: NA
Upper Limit: NA

Autoignition Temperature: NA

Danger of Explosion: NA

Combustible Characteristics: NA

Vapor Pressure: NA

Vapor Density (air=1): 4.3

Specific Gravity (H_2O=1): NA

Solubility:
Water Solubility: 0.02g/l
(Barium Chloride $BaCl_2$ 375 g/l)
(Barium Sulfate $BaSO_4$ 0.002 g/l)

Viscosity: NA

Decomposition Temperature: See Melting Point / Range

Partition Coefficient p (n-octanol/water): NA

Other Data: NA

10. Stability and Reactivity

Stability: Stable under normal conditions

Conditions to Avoid: Heat

Materials to Avoid: Acids

Hazardous Decomposition Products: Carbon dioxide, soluble Barium salts

11. Toxicological Information

Acute Toxicity:
LD50-oral (rat): 630 mg/kg

Chronic Toxicity: Chronic over-exposure may lead to varying degrees of paralysis of the extremities. A conditions known as "Bartosis" will be observed (x-ray of lungs will be influenced). Symptoms of over-exposure will disappear with time as the body eliminates Barium.

12. Disposal Considerations

Waste and Packaging Treatment: Dispose of in compliance with local, state and federal laws and regulations.

13. Transport

UN No.: 1564

DOT Classification
DOT Proper Shipping Name: Barium compounds, n.o.s.
Labels Required: 6.1 (toxic)
Packing Group: PGIII
Hazard Class: NA

14. Regulatory Information

Authorized Limit Values:
TLV (ACGIH) - TWA: 0.5 mg/m³ for soluble Barium compounds; Barium carbonate is not listed.

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