

16805

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Material Safety Data Sheet

may be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072



IDENTITY (Name, Trade Name, etc.) [REDACTED] Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name BARIUM [REDACTED]	Emergency Telephone Number 614-282-9776
Address (Number, Street, City, State, and ZIP Code) [REDACTED]	Telephone Number for Information 614-282-9776
Date Prepared [REDACTED]	Signature of Preparer (optional) <i>Robert J. [REDACTED]</i>

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Strontium				99%
Barium Carbonate				1%

Section III — Physical/Chemical Characteristics

Boiling Point Loses CO ₂ @	1.35°C	Specific Gravity (H ₂ O = 1)	3.70
Vapor Pressure (mm Hg.)	Negligible	Melting Point Decomposes to SrO @	ca 1100°C
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water
Insoluble

Appearance and Odor

White to light tan odorless powder or granules

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits Non-Flammable	LEL N/A	UEL N/A
Extinguishing Media N/A Non-Flammable			
Special Fire Fighting Procedures None			

Unusual Fire and Explosion Hazards
None

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid Very high temperature (ca 1100°C) causes decomposition to
	Stable	X	Strontium Oxide and Carbon Dioxide.

Incompatibility (Materials to Avoid)
Acids will decompose Strontium Carbonate to other Strontium salts with liberation of Carbon Dioxide. The reaction may be violent.

None

Hazardous Polymerization	May Occur		Conditions to Avoid None
	Will Not Occur	X	

Section VI — Health Hazard Data

Route(s) of Entry: Inhalation? **Yes** Skin? **No** Ingestion? **Slightly toxic**

Health Hazards (Acute and Chronic)
Acute: Excessive salivation, vomiting, abdominal pain, diarrhea, muscle twitchings, confusion, dilated pupils, possible convulsions and/or paralysis.

Chronic Overexposure: Possibly some degree of paralysis of the extremities.

Carcinogenicity: **None** NTP? **None** IARC Monographs? **None** OSHA Regulated? **None**

Product is ca 1% Barium Carbonate. Oral-Human LD₅₀ 5700 mg/kg (100 times Barium Carbonate)

Signs and Symptoms of Exposure

Slight irritation to eyes, skin and mucous membranes.

Medical Conditions

Generally Aggravated by Exposure **Not listed**

Emergency and First Aid Procedures

Flush with running water for 15 minutes, always seek medical attention.

Inhalation: Remove to fresh air.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Waste containing more than 0.2% soluble Barium is hazardous. This material may contain more than 0.2% soluble Barium if the pH is low. It can be rendered non-hazardous by mixing with any Sulfate to form insoluble Barium Sulfate. Observe all federal, state and local laws.

Waste Disposal Method

Try to keep material dry and away from acid. Sweep or scoop up spilled material. Remove to licensed landfill. Empty bags can be incinerated.

Precautions to Be Taken in Handling and Storing

Recover wet or dry. Relatively non-toxic. No acids in storage area.

Other Precautions

Reaction with acid can release large quantities of Carbon Dioxide which could lead to suffocation in a confined area. Use adequate ventilation.

Section VIII — Control Measures

Respiratory Protection (Specify Type)

Use O.S.H.A. approved toxic dust respirator

Ventilation	Local Exhaust	Special
	Provide sufficient ventilation to remove dust	Other
	Mechanical (General)	

Protective Gloves

General purpose

Eye Protection

Chemical safety goggles

Other Protective Clothing or Equipment

General full cover work clothes

Work/Hygiene Practices

No smoking or eating in work areas. Wash hands well before eating or smoking.