STRONTIUM CARBONA

16805 45

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 [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]

Address (Number, Street, City, State, and ZIP Code)
[redacted]

Emergency Telephone Number
614-282-9776

Telephone Number for Information
614-282-9776

Date Prepared [redacted]

Signature of Preparer (optional)

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_2O = 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)	Flammable Limits	LEL	UEL
N/A	Non-Flammable	N/A	N/A

Extinguishing Media
N/A Non-Flammable

Special Fire Fighting Procedures
None

Unusual Fire and Explosion Hazards
None

Section V — Reactivity Data

Stability			Conditions to Avoid
	Unstable		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 Carbo

Hazardous Decomposition or Byproducts
Dioxide. The reaction may be violent.
None

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

Section VI — Health Hazard Data

Route(s) of Entry: Inhalation? [redacted] Skin? No Ingestion? Slightly toxic

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

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

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
None			

Product is ca 1% Barium Carbonate. Oral-Human LDLo5700 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 mo 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: Provide sufficient ventilation to remove	Special: dust
	Mechanical *(General)*	Other

Protective Gloves	Eye Protection
General purpose	Chemical safety goggles

Other Protective Clothing or Equipment
General full cover work clothes

Work/Hygienic Practices
No smoking or eating in work areas. Wash hands well before eating or smoking.

• U.S.G.P.O. 1988-491-329/61