

## 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 (As Used on Label and List)

Strontium Carbonate CAS #1633-05-2

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 Seaforth Products Corporation	Emergency Telephone Number (216) 292-5820
Address (Number, Street, City, State, and ZIP Code) 3690 Orange Place, Suite 495	Telephone Number for Information (216) 292-5820
Cleveland, OH 44122	Date Prepared January 1, 2002
	Signature of Preparer (optional) <i>Gary B. McElroy, CEO</i>

## Section II -- Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Barium Carbonate	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>		1.2%
	for barium	for respirable		
		nuisance dust		

## Section III -- Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H <sub>2</sub> O = 1)	3.5
Vapor Pressure (mm Hg.)	N/A	Melting Point	Decomposes to SrO at ca. 1100°C
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water  
By weight 0.001% (20°)

Appearance and Odor  
White Granular Powder, Odorless

## Section IV -- Fire and Explosion Hazard Data

Flash Point (Method Used) Non-Flammable	Flammable Limits None	LEL	UEL
Extinguishing Media No fire hazard			
Special Fire Fighting Procedures None			

Unusual Fire and Explosion Hazards  
None

**Section V — Reactivity Data**

Stability	Unstable	Conditions to Avoid
	Stable	Very high temperature (1100°C)

Incompatibility (Materials to Avoid)  
Acids

Hazardous Decomposition or Byproducts

None

Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur	

None

**Section VI — Health Hazard Data**

Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
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Health Hazards (Acute and Chronic)

Acute: Muscle twitchings, confusion, dilated pupils, possible convulsions and/or paralysis; Chronic: Possibly some degree of paralysis of the extremities. Not known to be a carcinogen.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated? No
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Signs and Symptoms of Exposure

Excessive salivation, vomiting, abdominal pain, and diarrhea

Medical Conditions

Generally Aggravated by Exposure None known

Emergency and First Aid Procedures  
EYES: Flush with water and seek medical attention.  
SKIN: Wash with soap and water.  
INHALATION: Flush mouth and nasal passages with water.  
INGESTION: Administer epsom salts in dissolved water and induce vomiting.

**Section VII — Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material Is Released or Spilled

Try to keep material dry and away from acid and sweep or scoop up material.

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

Precautions to Be Taken in Handling and Storing

Avoid acids

Other Precautions

Provide sufficient ventilation to remove dust.

**Section VIII — Control Measures**

Respiratory Protection (Specify Type)

Use NIOSH approved dust mask if excessive dust is present.

Ventilation	Local Exhaust	Special- Reaction with acid can release large quantities of carbon dioxide which can lead to suffocation in confined area. Use adequate ventilation.
	Mechanical (General)	
Protective Gloves	General Purpose	Eye Protection Safety Glasses

Other Protective Clothing or Equipment  
None

Work/Hygienic Practices

N/A