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## MATERIAL SAFETY DATA SHEET

# Barium Selenite

MSDS Number : 014

Effective Date : 01/20/09

### I. Product Identification

Trade Name : Barium Selenite  
 Chemical Formula : BaSeO<sub>3</sub>  
 Molecular Weight : 264.3  
 Manufacturer : Pacific Rare Specialty Metals And Chemicals, Inc. (PRSMCI)  
 Lot 6 Blk 1, Phase II, West Avenue, Cavite Economic Zone,  
 Rosario, Cavite, Philippines, 4106  
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### II. Composition / Information on Components

Name : Barium Selenite  
 CAS No. 13718-59-7  
 EINECS No. 2372800

### III. Hazard Identification

Designation VERY TOXIC  
 Risk Phrases R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.  
 R33 Danger of cumulative effects  
 Flammability Rating : 0 (Not combustible)  
 Reactivity Rating : 0 (Not reactive when mixed with water)  
 Health Rating : 3 (Poison, toxic by inhalation and if swallowed)  
 Contact Rating : 2 (Causes eye and skin irritation)

### IV. First - Aid Measures

**Inhalation** : Remove to fresh air. Seek medical attention. Show the physician the container details.  
**Ingestion** : Rinse out mouth and drink lots of water. Seek urgent medical attention and show physician the container details.

- Skin Contact** : Remove contaminated clothing. Wash affected area with soap and water. Rinse thoroughly. Seek medical advice. Show the physician the container details.
- Eye Contact** : Flush with copious amounts of water for at least 15 minutes. Seek medical advice. Show the physician the container details.

## V. Fire Fighting Measures

- Fire Extinguishing Media** : Use fire fighting measures which suit the environmental and take into account other materials which may be involved. In general, water-based extinguishers should not be used for fires involving organic materials. Use carbon dioxide or dry powder.
- Protective Equipment** : Wear self-contained breathing apparatus and protective clothing
- Hazardous Products of Combustion may include:** hydrogen selenide

## VI. Accidental Release Measures

- Personal Protection** : Avoid inhalation or contact of spilled material with skin or clothing. Wear protective equipment including rubber gloves, and eye protection. Keep unprotected persons away.
- Environmental Precautions:** Take precautions to ensure product does not contaminate the ground or enter the drainage system.
- Methods of Cleaning Up** : Mix with vermiculite or proprietary absorbent material and transfer to sealed containers for disposal.

## VII. Handling and Storage

- Handling** : Chemicals should be used only by those trained in handling potentially hazardous materials. Rubber gloves, eye protection and protective clothing should be worn. Operations should be carried out in an efficient fume hood or equivalent system.
- Storage** : Store in tightly sealed containers in a cool place. Protect from moisture.

## VIII. Exposure Controls / Personal Protection

- Respiratory Protection** : Avoid inhalation of product. Handle in an efficient fume hood or equivalent system.
- Eye Protection** : Avoid eye contact. Wear safety spectacles or goggles.
- Hands and Body Protection** : Avoid skin contact. Wear rubber gloves and protective clothing. Wash hands thoroughly after handling..

## IX. Physical and Chemical Properties

- Appearance : Pink powder
- Physical Constants : Not available
- Molecular Formula : BaO<sub>3</sub>Se
- Flash Point : Not available
- Formula Weight : 264.30
- Density : Not available

**X. Stability and Reactivity****Specific Hazard**

**Incompatibilities** : Strong acids. Strong oxidizing agents.  
**Decomposition** : Hazardous products of decomposition may include: hydrogen selenide.

**XI. Toxicological Information**

**RTECS No.** : Not listed  
**Acute Toxicity** : LD<sub>50</sub> : No data reported  
 Very toxic by inhalation, in contact with skin and if swallowed. Danger of cumulative effects.  
**Chronic Toxicity** : May cause damage to the heart, nerves, kidneys, gastrointestinal system, bone marrow, spleen and liver.

**XII. Ecological Effects**

**General** : Take care to prevent chemicals from entering the ground, water courses or drainage systems.

**XIII. Disposal Considerations**

**Disposal** : Disposal should be via an approved contractor and should take full account of local regulations.

**XIV. Transport Information**

UN Number	: 2630		
Land Transport	: ADR/RIC Code/Class	6.1	Packing Group I
Maritime Transport	: IMDG Code/Class	6.1	Packing Group I
Air Transport	: IATA Code/Class	6.1	Packing Group I

**XV. Regulatory Information**

**CAS No.** 13718-59-7    **EINECS No.** 2372800    **UN No.** 2630    **RTECS No.** Not listed  
**Hazard Indication** Very TOXIC  
**Risk and Safety Phrases** Very toxic by inhalation, in contact with skin and if swallowed.  
 Danger of cumulative effects. When using do not eat, drink or smoke.  
 If you feel unwell, seek medical advice (show the label where possible).  
**TSCA** Listed substance.

**XVI. Other Information**

It must be recognized that the physical and chemical properties of any product may not be fully understood and that new, possibly hazardous products may arise from reactions between chemicals.

**Disclaimer:**

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