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MATERIAL SAFETY DATA SHEET

Barium Selenate

MSDS Number : 007

Effective Date : 01/20/09

I. Product Identification

Trade Name : Barium Selenate
 Chemical Formula : BaSeO₄
 Molecular Weight : 280.32
 Manufacturer : Pacific Rare Specialty Metals And Chemicals, Inc. (PRSMCI)
 Lot 6 Blk 1, Phase II, West Avenue, Cavite Economic Zone,
 Rosario, Cavite, Philippines, 4106
 Emergency Phone : (+63-02) 784 - 4000
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II. Composition / Information on Components

Barium Selenate (CAS# 7787-41-9)
 EINECS Number : 232-113-8

III. Hazard Identification

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)
 Protective Equipment : Goggles, Gloves

Potential Health Effects :

Acute Exposure : Material is irritating to mucous membranes and upper respiratory tract. Possible risk of irreversible effects.

Inhalation : Toxic by inhalation. Maybe fatal if inhaled.

Ingestion : Very toxic if swallowed. Maybe fatal if swallowed.

Skin Contact : Harmful in contact with skin. Can be absorbed through skin. Maybe fatal if absorbed through skin.

Eye Contact : May cause conjunctivitis.

Chronic Exposure: Possible mutagen. Target organ (s): Liver, kidneys.

IV. First - Aid Measures

- Inhalation** : Remove victim into fresh air. Allow the affected person to rest. If not breathing, give artificial respiratory. If breathing is difficult, give oxygen.
- Ingestion** : Induce vomiting with saline solution for conscious and alert victims only. Rush victim to the nearest hospital.
- Skin Contact** : Immediately flush with copious amount of water for at least 15 minutes while removing contaminated clothing and shoes. Neutralize with 10% sodium thiosulfate solution then wash with soap and water. Wash contaminated clothing before reuse.
- Serious Skin Contact** : Wash with a disinfectant soap and cover the contaminated skin with an antibacterial cream. Seek immediate medical attention.
- Eye Contact** : Rinse thoroughly under running water for 20 minutes with eyelids held open. Seek medical attention.

V. Fire Fighting Measures

- Fire** : Not considered to be a fire hazard.
- Explosion** : Not considered to be an explosion hazard.
- Fire Extinguishing Media:** Use carbon dioxide gas, dry chemical or foam. DO NOT use water.
- Special Information** : Fire-fighters should wear full protective clothing including self-contained breathing apparatus.
Apply water spray or fog to cool nearby equipment. Avoid fire-fighting water to enter environment.

VI. Accidental Release Measures

- Personal Precautions** : Evacuate all personnel immediately and ventilate area. Avoid breathing vapour.
- Environmental Precautions:** Prevent entry of product in public water, sewers or oil. Notify authorities if product enters sewers or public waters.
- Methods of Cleaning Up** : Sweep up spilled material and collect recoverable product into labeled containers for recycling. Ventilate and wash spill site with plenty of water preventing runoff from entering drains. For larger spills, vacuum up spilled material. Personnel must wear full protective clothing including breathing apparatus. Avoid raising dust.

VII. Handling and Storage

Barium Selenate can be reduced to red elemental Selenium in the presence of reducing agents and should not be allowed in contact with organic materials or even dust particles.
Reseal bags and replace lids when not in use. Do not store with acids. Do not expose to extreme heat.
Sprinkle with water to keep cool in the event of fire

VIII. Exposure Controls / Personal Protection

- Airborne Exposure Limits** : OSHA PEL : 0.2 mg/m³, as Se
ACGIH TLV : 0.2 mg/m³, as Se
- Respiratory Protection** : Wear appropriate NIOSH / MSHA approved respirator.
WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
- Skin Protection** : Wear impervious protective clothing, including boots, gloves, as appropriate, to prevent skin contact.

Eye Protection : Wear chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

IX. Physical and Chemical Properties

Form : White Rhombohedral crystals Specific Gravity : 3.57 (water = 1)
 Color : White Melting Point : Decomposes
 Odor : odorless Boiling Point : Decomposes
 Solubility : Slightly soluble in dilute mineral acids

X. Stability and Reactivity

Stability : Stable at ordinary temperature.
Hazardous Decomposition Products: Selenium Dioxide
Hazardous Polymerization : Will not occur.
Incompatibilities : Strong oxidizing agents
Conditions to Avoid : Avoid open flame and sources of ignition.

XI. Toxicological Information

Toxicological Data : Oral Rat LD50 : 7 mg/kg

XII. Ecological Information

Environmental Fate : No information found.
Environmental Toxicity : For selenium salts : The LC50/96-hour values for fish are less than 10 mg/L. This material is expected to be toxic to very toxic to aquatic life.

XIII. Disposal Considerations

Discard any waste product, residue, disposable container, liner or spilled material in an environmentally acceptable manner that is in full compliance with all applicable national and local laws and regulations. Burn in a chemical incinerator equipped with an afterburner and scrubber. When this material is liquid, it is better to neutralize its chemical nature by using a dilute solution of sodium carbonate

XIV. Transport Information

	<u>Proper Shipping Name</u>	<u>Hazard Class</u>	<u>UN/NA</u>	<u>Packing Grp</u>
Domestic (Land, D.O.T.) :	Selenate	6.1	UN 2630	I
International (Water, I.M.O.) :	Selenate	6.1	UN 2630	I
International (Air, I.C.A.O.) :	Selenate	6.1	UN 2630	I

XV. Regulatory Information

International Regulatory status

UNEP Persistent Organic Pollutant (POP)	Not listed
UNEP Prior Informed Consent Chemical (PIC)	Not listed
WHO Obsolete Pesticide	Not listed
Toxic Substance Control Act (TSCA)	Listed

Canadian Non-Domestic Substances List (NDSL) Listed
Australian Inventory of Chemical Substances (AICS) Listed

XVI. Other Information

NFPA Ratings: (estimated) Health: **3** ; Flammability: **0**; Reactivity: **0**

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