

MATERIAL SAFETY DATA SHEET
For Coatings, Resins, and Related Materials

Complies with U.S. Department of Labor Occupational Safety and Health Administration
For OSHA Hazard Communication Standard Specific Requirements Consult: 29 CFR 1910.1200

SECTION I - PRODUCT IDENTIFICATION

Distributor: Sino-American Pigment Systems, Inc.
1620 Norvell Street
El Cerrito, CA 94530

Date of Creation: February 22, 1999
Date of Revision: March 29, 2006

Product Identification:

Product Name: **Barium Sulfate** [All Grades]
Chemical Family: Inorganic Pigment
CAS Number: 7727-43-7
Formula: BaSO₄
TSCA Status: XU - Exempt From Reporting
Meets FDA Regulations: GRAS Material

Emergency Information:

Information Phone: 510 848 8890
Chemtrack Phone: 800 424 9300

SARA Title III Section 313: Zinc Sulfide is present in amounts above the applicable de minimus concentrations for Zinc Compounds as listed in 40 CFR 372.65

Chemical Name: Barium Sulfate
OSHA Hazard Communication Status: This product is not hazardous as defined by OSHA HC Standard 29 CFR 1910.1200

Hazardous Materials Identification System Index Rating: Severe-4, Serious-3, Moderate-2, Slight-1, Minimal-0
[1] Health [0] Flammability [0] Reactivity [E] Personal Protection

SECTION II - HAZARDOUS IDENTIFICATION

Barium Sulfate has been *delisted* from the category of "barium compounds" on the list of toxic chemicals for which reporting is required under Section 313 of the emergency Planning and Community right-to-Know Act of 1986. [Reference: *Federal Register* notice of EPA final rule: Page 33208, Volume 59, Number 123, 28 June, 1994, Rules and Regulations].

SECTION III - PHYSICAL DATA

Boiling Point:	N/A	Specific Gravity:	4.20
Vapor Pressure:	N/A	Melting Point:	@ 1,185°C
Vapor Density:	N/A	Evaporation Rate:	N/A
Solubility In Water:	Insoluble [eg: BaSO ₄ ≤ 5.3 x 10 ⁻³ g/l]		
Appearance & Odor:	Very Fine Brilliant White and Odorless Powder		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Classification	OSHA: N/A	Flash Point: Non-Flammable
	DOT: 55	LEL: N/A UEL: N/A

Extinguishing Media: ☐ Foam ☐ "Alcohol" Foam ☐ CO₂ ☐ Dry Chemical ☐ Water Fog ☒ Any

Unusual Fire and Explosion Hazards: None, but if involved in fire from other sources, SO₂ vapor may be generated at high temperatures.

Special Fire Fighting Procedures: Fire Fighters should wear self-containing breathing apparatus, as protection against potential acid vapors.

SECTION V - HEALTH HAZARD DATA

Primary Route(s) of Entry:
☐ Ingestion ☐ Dermal ☒ Inhalation
Threshold Limit Value: None Established☒ Eye**Health Hazards** (Acute and Chronic):

Acute: No applicable information found concerning any adverse acute health effects from overexposure to product.

Chronic: Inhalation of airborne particles may cause transient irritation in mouth, nose and throat.

Carcinogenicity:

FDA GRAS - Inert

NTP?

Not Listed

IARC Monographs?

Not Listed

OSHA Regulated?

Not Regulated

SARA Title III?

Not Regulated

**Barium Sulfate delisted from
"Barium Compounds" on TSCA
inventory 28 June, 1994.**

Signs and Symptoms of Exposure: N/A**Medical Conditions Generally Aggravated by Exposure:** N/A**Emergency and First Aid Procedures:**

- Eye Contact - Flush thoroughly with water.
- Inhalation - Remove to fresh air.
- Skin Contact - Wash thoroughly with soap or mild detergent, and water.
- Ingestion - If conscious, give large quantities of water to induce vomiting, and call a physician.

SECTION VI - REACTIVITY DATA

Stability: ☐ Unstable ☒ Stable**Conditions to Avoid:** None in normal use.**Incompatibility** (Materials to Avoid): Contact with strong mineral acids.**Hazardous Decomposition Products:** None, but contact with strong mineral acids or high temperatures may generate SO₂ and/or H₂S.**Hazardous Polymerization:** ☐ May occur ☒ Will not occur

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Material will be blown away as dust. Prevent spread of material and keep dust level down. Scoop up material or use vacuum technique. Those involved in the clean-up should use respiratory protection.

Waste Disposal Methods:

As with other pigment powders, disposal must be made in accordance with Federal, State and local regulations.

RCRA Status:

Not Regulated.

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

Respiratory Protection: Wear NIOSH approved dust respirator.**Ventilation:** Provide local exhaust ventilation system to meet TLV requirements.**Protective Gloves:** No requirement**Eye Protection:** Goggles advisable against dust.**Hygienic Practices:** Wash thoroughly with soap and water before eating, drinking or using tobacco products.

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing:

- Avoid contact with water or strong acids;
- Keep storage area dry;
- Use ventilation to keep dust level down;
- Use a personal respirator if dust cannot be controlled;
- Store away from heat;
- Use good hygienic practice.