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

Complies with U.S. Department of Labor Occupational Safety and Health Administration

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**SECTION I - PRODUCT IDENTIFICATION**

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

**Date of Creation:** Nov 11, 2007
**Date of Revision:** January 28, 2008

**Product Identification:**
- **Product Name:** Safe Yellow® Pigment Enhancer Slurry
- **Chemical Family:** Inorganic Pigment
- **Synonym:** Colored Lithopone
- **CAS Registration Number:** 1345-05-7

**Emergency Information:**
- **Information Phone:** 800 536 9932
- **Chemtrack Phone:** 800 424 9300

**CAS #** **Chemical Name**
- Subpart: 175.105  Adhesives  CAS #  Chemical Name
  - 1314-98-3  Zinc Sulfide
  - 7727-43-7  Barium Sulfate
- Subpart: 175.300  Resinous and polymeric coatings  57-55-6  Distillate (Petroleum) Hydrotreated Light Naphthenic
- Subpart: 178.3297  Colorants for polymers  64742-53-6  Hynap N100HTS (for Solvent Based)
- Subpart: 178.3297  Proplene Glycol (for Water Based)  57-55-6

**OSHA Hazard Communication Status:** Defined by OSHA HC Standard 29 CFR 1910.1200

**Canadian WHMIS:** Not Controlled

**Canadian Domestic Substance List:** All Ingredients listed

**CONEG:** Full Compliance

**Concentrations:**
- Subpart: 175.105  Adhesives  CAS #  Chemical Name
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**SECTION II - HAZARDOUS INGREDIENTS**

Zinc Sulfide is approved for use in "Lubricants with incidental food contact" Subpart 178.3570 and Part CFR, Title 21, Volume 178.
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].

**CAL-OSHA PEL-TWA (8 hour):** 5 mg/m³ (as oil mist)
**ACGIH TLV-TWA (8 hour):** 5 mg/m³ (as oil mist)
Other limits recommended: None
% by Weight: > 99

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**SECTION III - PHYSICAL DATA**

- **Boiling Point:** 616°F
- **Vapor Pressure:** < 0.01 mmHg @ 100°F
- **Vapor Density:** 4
- **Solubility In Water:** NIL, Insoluble
- **Appearance & Odor:** Yellow slurry, slight odor (for water based); Straw colored liquid, Petroleum odor (for solvent based)

**Specific Gravity:** 0.89
**Melting Point:** ZnS:BaSO₄ Sublimes @ 1,185°C
**Evaporation Rate:** < 1

**ZnS Content:** ≥ 20% ≥ 40%

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**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

**Flammability Classification:** OSHA: N/A
**Flash Point:** 211°F
**DOT:** 55
**LEL:** N/A
**UEL:** N/A


**Unusual Fire and Explosion Hazards:** None. If involved in fire from other sources, SO₂ vapor may be generated at high temperatures.
Special Fire Fighting Procedures: Do not enter confined fire space without proper protective equipment including self-contained breathing apparatus. See Hazardous Decomposition Products.

Hazardous Decomposition Products: Normal combustion forms carbon dioxide and water vapor, and may produce oxides of sulfur and nitrogen. Incomplete combustion can produce carbon monoxide.

SECTION V - HEALTH HAZARD DATA

<table>
<thead>
<tr>
<th>Primary Route(s) of Entry</th>
<th>Threshold Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>[X] Ingestion</td>
<td>None Established</td>
</tr>
<tr>
<td>[X] Dermal</td>
<td></td>
</tr>
<tr>
<td>[X] Inhalation</td>
<td></td>
</tr>
<tr>
<td>[X] Eye</td>
<td></td>
</tr>
</tbody>
</table>

Carcinogenicity: NTP?
None Reported

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.

ACGIH: This product is not listed as carcinogenic.

IARC: The international agency for research on cancer has concluded that highly or severely refined light and middle distillates are Group 3 substances, “not classifiable as to their carcinogenicity to humans”, based on inadequate human or animal evidence.

NTP: This product is not listed as carcinogenic.

OSHA: This product is not listed as carcinogenic.

Signs and Symptoms of Exposure:

Eye Contact - Eye contact may result in irritation and redness. Thermal burns may result from contact with hot material. Exposure to high concentrations of vapors may be irritating to the eyes.

Inhalation - Fumes from hot products may be unpleasant and may produce nausea. Remove the person to fresh air if respiratory discomfort occurs.

Skin Contact - Prolonged and repeated contact can defat the skin, which may result in dryness, dermatitis and cracking of the skin. Thermal burns may result from contact with hot materials.

Ingestion - Do not ingest. Ingestion may result in nausea or stomach discomfort. If swallowed do not induce vomiting, call a physician.

Medical Conditions Generally Aggravated by Exposure:
Persons with preexisting skin or respiratory disorders may have their conditions aggravated by overexposure to this material.

Emergency and First Aid Procedures:

Eyes – Avoid contact with eyes. If contact occurs, immediately flush eyes with water for a minimum of 15 minutes. Seek medical attention immediately.

Skin – Avoid contact with skin. If contact occurs, wash contact areas with soap and water. Remove and clean oil soaked clothing daily and wash affected area.

Ingestion – Do not induce vomiting. If ingested, seek medical attention.

Inhalation – Not expected to be a problem. However, if respiratory irritation, dizziness, nausea or unconsciousness occurs due to excessive vapor or mist exposure, seek medical attention. If operating conditions create airborne concentrations that exceed the exposure standard, the use of an approved NIOSH/OSHA respirator for organic vapors or air-supplied breathing equipment is recommended.

SECTION VI - REACTIVITY DATA

<table>
<thead>
<tr>
<th>Stability</th>
<th>[ ] Unstable</th>
<th>[X] Stable</th>
</tr>
</thead>
</table>

Incompatibility (Materials to Avoid): May react with strong oxidizers.

Hazardous Decomposition Products: Normal combustion forms carbon dioxide and water vapor, and may produce oxides of sulfur and nitrogen. Incomplete combustion can produce carbon monoxide.

Hazardous Polymerization: [ ] May occur [X] Will not occur

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:
In case of spill, clean up using absorbent material such as earth or sand.

Waste Disposal Methods:
Observe Federal, State and Local regulations covering chemical waste spills.

RCRA Status:
This product is not a characteristic hazardous waste under RCRA. No EPA waste numbers are applicable for this product’s components.
SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

Respiratory Protection: If operating conditions create airborne concentrations that exceed the exposure standard for this product, the use of an approved NIOSH/OSHA respirator for organic vapors or air supplied breathing equipment is recommended.

Ventilation: Use adequate ventilation to keep the airborne concentrations of this material below the established exposure standard.

Protective Gloves: Long sleeve cotton shirt and cotton pants are recommended. Wear appropriate gloves.

Eye Protection: Wear appropriate safety glasses, goggles, or full-face shield.

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.