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: 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
Main Formula: $ZnS:BaSO_4$
TSCA Status: XU - Exempt From Reporting
Meets FDA Regulations: GRAS Material

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

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

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

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

Canadian WHMIS: Not Controlled
Canadian Domestic Substance List: All Ingredients listed
CONEG: Full Compliance

Grade:	230S	260S
ZnS Content:	≥ 20%	≥40%

HIMS Rating: [**1**] Health [1] Flammability [**0**] Reactivity [**E**] Protection

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

SECTION III - PHYSICAL DATA

Boiling Point: 616°F
Specific Gravity: 0.89
Vapor Pressure: < 0.01 mmHg @ 100°F
Melting Point: $ZnS:BaSO_4$ Sublimes @ 1,185°C
Vapor Density: 4
Evaporation Rate: < 1
Solubility In Water: NIL, Insoluble [eg: @ 20°C - ZnS ≤ 6.9×10^{-3} g/l and $BaSO_4$ ≤ 5.3×10^{-3} g/l]
Appearance & Odor: Yellow slurry, slight odor (for water based); Straw colored liquid, Petroleum odor (for solvent based)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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

Extinguishing Media: [X] Foam [ ] "Alcohol" Foam [X] CO_2 [X] Dry Chemical [X] Water Fog

Unusual Fire and Explosion Hazards: None. If involved in fire from other sources, SO_2 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

Primary Route(s) of Entry:
[X] Ingestion [X] Dermal [**X**] Inhalation [**X**] Eye

Threshold Limit Value: None Established

Carcinogenicity:	**NTP**?	**IARC Monographs**?	**OSHA Regulated**?	**SARA Title III**?
None Reported	Not Listed	Not Listed	Not Regulated	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 t 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

Stability: [ ] Unstable [**X**] Stable **Conditions to Avoid**: None in normal use.
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 u 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 crate 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.