MATERIAL SAFETY DATA SHEET

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, USA

Date of Creation: March 25, 2002
Date of Revision: April 17, 2006

Product Identification:
Product Name: **Ground Limestone**
Chemical Name: **Calcium Carbonate**
CAS Number: 1317-65-3
Formula: $CaCO_3$
TSCA Status: N/A
Meets FDA Regulations: Food & USP Grade

Emergency Information:
Information Phone: 425 450 8822
Chemtrack Phone: 800 424 9300

SARA Title III Section 313: N/A

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

SECTION II - HAZARDOUS IDENTIFICATION

Ingredients:	**% by Wt.:**	**CAS #:**	**Exposure Limits:**	
Limestone	> 99	1317-65-3	ACGIH TLV:	Total dust, 10mg/m³ TWA
			OSHA PEL:	Total dust, 15 mg/m³ TWA Respirable dust, 5 mg/m³ TWA
Silica, quartz (naturally-occurring component of limestone)	<0.2 (typical)	14808-80-7	ACGIH TLV: OHSA PEL:	Respirable dust, 0.1 mg/m³ TWA Respirable dust, 0.1 mg/m³ TWA

Hazardous Materials Identification System: (National Paint & Coatings Association)

Category	Rating
Health	0
Flammability	0
Reactivity	0

SECTION III - PHYSICAL DATA

Boiling Point: N/A
Vapor Pressure: N/A
Vapor Density: 2.7 g/ml
Solubility In Water: 1.3 mg/100g @ 18°C
Appearance & Odor: White powder: no odor.

Specific Gravity: N/A
Melting Point: N/A
Evaporation Rate: N/A

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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

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

Unusual Fire and Explosion Hazards: None.
Special Fire Fighting Procedures: None.

SECTION V – TOXICOLOGICAL PROPERTIES ANDHEALTH HAZARD DATA

Primary Route(s) of Entry: **Threshold Limit Value**: None Established
[X] Ingestion [X] Dermal [**X**] Inhalation [**X**] Eye
Health Hazards (Acute and Chronic):
Acute: Through ingestion, ingestion of vary large quantities may result in intestinal obstruction and/or constipation; Through skin contact, repeated or prolonged exposure may have a drying effect on the skin. May cause mild skin irritation. Symptoms include redness and irritation; Through inhalation, can be irritating to the respiratory tract. Symptoms include sneezing and slight nose irritation; Through eye contact, mild irritation. Symptoms include watering and irritation.
Chronic: There are no reported health effects associated with repeated or prolonged exposure to pure calcium carbonate. Chronic exposure to respirable limestone dust at concentrations exceeding occupational exposure limits may increase the risk of developing pneumoconiosis (lung disease).
These products contain crystalline silica (quartz) as an impurity. Prolonged exposure to respirable crystalline silica dust at concentrations exceeding occupational exposure limits may increase the risk of developing a disabling lung disease called silicosis. IARC has concluded that there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz from occupational sources.
Signs and Symptoms of Exposure: N/A
Medical Conditions Generally Aggravated by Exposure: N/A
Emergency and First Aid Procedures:
Eye Contact - Immediately flush the contaminate eye(s) with lukewarm, gently flowing water, for 10 minutes, holding the eyelid(s) open. If irritation persists, obtain medical advice immediately.
Inhalation - Remove to fresh air. Obtain medical advice if required.
Skin Contact - Wash with warm water and mild soap. If irritation occurs, obtain medical advice immediately.
Ingestion - Never give anything by mouth if vitamin is rapidly losing consciousness or is unconscious or convulsing. Rinse mouth thoroughly with water. Do not induce vomiting. Drink 8 to 10 ounces (240 to 300 ml) of water to dilute material in stomach. Obtain medical advice immediately.

SECTION VI - REACTIVITY DATA

Stability: [ ] Unstable [**X**] Stable **Conditions to Avoid**: None in normal use.
Incompatibility (Materials to Avoid): Reacts with acids to liberate carbon dioxide. Ignites on contact with fluorine. Also incompatible with alum and ammonium salts.
Hazardous Decomposition Products: Thermal oxidative decomposition can produce calcium oxide.
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: Measures may be necessary to reduce and protect against airborne dust during cleanup operations, including wetting spilled material and/or use of respiratory protective equipment.
Waste Disposal Methods: These products are not considered hazardous and may be disposed of as a solid waste in accordance with applicable federal, sate. Provincial, 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:
HANDLING: Engineering control methods such as (but not limited to) process enclosure and exhaust ventilation may be necessary to control exposures. Supply sufficient replacement air to make up for air removed by exhaust systems. If engineering controls and work practices are not effective in controlling exposures, appropriate personal protective equipment including a NIOSH/OSHA approved dust respirator should be worn. When prolonged or repeated contact with hands is likely, the use of appropriate gloves is recommended. Appropriate eye protection should be worn.
STORAGE CONDITIONS: Store n closed containers in a dry place separate from incompatible materials.