

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.
1630 Norvell Street
El Cerrito, CA 94530, USA

Date of Creation: April 8, 2002
Date of Revision: April 18, 2006

Product Identification:

Product Name: **Calcium Citrate**

CAS # 5785-44-4

Chemical Name: Calciumcitrate, tri-calcium dicitrate tetrahydrate, 2-hydroxy-1,2,3-propanetricarboxylic acid calcium salt, lime citrate

Chemical Formula: $C_{12}H_{10}O_{14}Ca_3 \cdot 4H_2O$

Chemical Family: Organic metal salt

Emergency Information:

Information Phone: 425 450 8822

Chemtrack Phone: 800 424 9300

SECTION II - HAZARDOUS IDENTIFICATION

OSHA PEL: Not established

ACGIH TVL: Not established

Other Recommended Limit: None recommended

SECTION III - PHYSICAL DATA

Boiling Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Solubility In Water: N/A

Appearance & Odor: Odorless; White powder

Specific Gravity: N/A

Freezing Point: 120°C

Evaporation Rate: N/A

pH: N/A

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Classification: Nonflammable, ignition is possible at elevated temperatures.

OSHA: N/A

Flash Point: Not available

DOT: N/A

LEL: N/A

UEL: N/A

Extinguishing Media: Use an extinguisher appropriate to the surrounding material that is burning.

Unusual Fire and Explosion Hazards: N/A

Special Fire Fighting Procedures: N/A

Hazardous Combustion Products: COx

SECTION V - HEALTH HAZARD DATA

Primary Route(s) of Entry:

[X] Ingestion [X] Dermal [X] Inhalation

Threshold Limit Value: None Established

[X] Eye

Health Hazards (Acute and Chronic):

May cause irritation, no known harmful effects.

Carcinogenicity: NTP? No**IARC Monographs?** No**OSHA Regulated?** No**Signs and Symptoms of Exposure:** May cause irritation, no known harmful effects.**Medical Conditions Generally Aggravated by Exposure:** None specified by manufacture.**Emergency and First Aid Procedures:**

- Eye Contact - Flush the contaminated eye(s) for at least 15 minutes with lukewarm running water, holding the eyelids open. Take care not to rinse contaminated water into the non-affected eye. Always seek medical attention for accidents involving the eyes.
- Inhalation - Take proper precautions to ensure your own safety before attempting rescue. Remove source of contamination or move victim to fresh air. If breathing has stopped, trained personnel should begin artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Seek medical attention.
- Skin Contact - Flush the contact area with lukewarm running water for at least 15 minutes. Remove contaminated clothing, taking care not to spread the chemical. If contamination is extensive, remove clothing under running water. Discard or decontaminate clothing under running water. Discard or decontaminate clothing before use. Unless contact has been slight, seek medical attention. Seek medical attention if irritation persists.
- Ingestion - Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. Do not induce vomiting. Have victim drink 200-400 ml of water to dilute. If breathing has stopped, trained personnel should begin artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Seek medical attention.

SECTION VI - REACTIVITY DATA

Stability: [] Unstable [X] Stable**Conditions to Avoid:** No information available.**Incompatibility** (Materials to Avoid): Extreme heat**Hazardous Decomposition Products:** CO_x, CaO**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:

Before dealing with spillages take necessary protective measures, inform others to keep at a safe distance and, for flammable materials, shut off all possible sources of ignition. If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise transfer to container and arrange removal by disposal company. Wash site of spillage thoroughly with water and detergent.

Waste Disposal Methods:

Follow all federal, provincial and local regulations for disposal. Use only licensed disposal and waste hauling companies. Disposal of small amounts of spilled material may be handled as described under "Steps to be Taken In Case Material is Released or Spilled". Large spills must be dealt with separately and must be handled by qualified disposal companies.

Neutralizing Agent: N/A

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

Respiratory Protection: Dust mask or self-contained breathing apparatus as appropriate.**Ventilation:** Exhaust ventilation sufficient to keep airborne concentrations below respective TLV's.**Protective Gloves:** Rubber, plastic**Eye Protection:** Chemical safety goggles**Hygienic Practices:** Wash hands thoroughly with soap and water before eating, drinking, smoking or using toilet facilities.**Other Protective Equipment:** Plastic apron clothing, sleeves and boots as necessary to prevent skin contact. An emergency eyewash and shower should be available.**Supplementary Safety & Health Data:** Remove and wash contaminated clothing before reuse.

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing:

Storage Requirements: Store in suitable labeled containers. Keep containers tightly closed when not in use and when empty. Protect from damage. Store in a cool, dry, well-ventilated area, out of direct sunlight.