

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

Date of Creation: June 27, 2006

Product Identification:

Product Name and number: DR38CA Natural Polymer
Name: Modified rosin ester resin
CAS Number: 8051-10-7
Modified rosin ester resin: 99.5% weight
Rosin: 74.84%

Emergency Information:

Information Phone: 425 450 8822
Facsimile: 425-637-7200
Chemtrack Phone: 800 424 9300

SECTION II - HAZARDOUS IDENTIFICATION

Toxicity: Eye, skin, and respiratory irritant.

Primary routes of entry: Inhalation, ingestion, contact.

Signs and symptoms of exposure: Headache, nausea, dizziness, irritation of mucous membranes, vapor irritates eyes, nose and throat. Liquid may cause eye injury and is irritating to skin. May cause sensitization. Existing

Conditions aggravated by exposure: none known

SECTION III - PHYSICAL AND CHEMICAL DATA

physical state and appearance:	Solid	Specific Gravity	1.09 (Water=1)
Odor:	Slight	Color (Gardner Number, 50%Toluene):	3Max.
Molecular Weight:	Not applicable	R/B Softening Point:	100±2°C
Vapor Density:	Not available	Acid value:.	10mgKOH/g max.
Solubility (water):	Not applicable		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability of the Product: Nonflammable Flash point: Closed cup:>98°C (Seta flash)

Auto-ignition Temperature: Not available Flammable Limits: Not available

General Fire Hazards: High concentration of airborne dust may form explosive mixture with air. Static electric charges created by emptying product from ungrounded Containers in or near flammable vapors may cause flash fire. Product is Not considered combustible. If heated above its flash point in the presence Of air, product can support combustion.

Hazardous Decomposition: Smoke, carbon monoxide, carbon dioxide, and other products of
Products: Combustion

Extinguishing Media: Carbon dioxide, dry chemical or water.

Fire fighting equipment and instructions: Wear full protective clothing, including self-contained positive pressure/pressure demand breathing apparatus, helmet, and protective Clothing. Use water to cool fire-exposed containers and to protect personnel

SECTION V - HEALTH HAZARD DATA

Emergency Overview: Product is an amber resin with a rosin odor. This is a non-combustible, non-Reactive solid material. Flaked material may cause a dust problem. Static electric charges created by emptying product form ungrounded containers in or near flammable vapors may cause flash fire. may cause eye irritation. Vapors may also produce eye irritation. Inhalation of vapors/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or difficulty breathing. Potential Health Effects:

Eye Contact: Dust/powder may irritate eye tissue. Rubbing may cause abrasion of the cornea. Symptoms may include irritation, redness, scratching of the cornea, and tearing. Vapors may also cause eye irritation. If heated product contacts the eye, thermal burns may result.

Skin Contact: Prolonged or repeated skin contact may cause irritation .When it is heated, this product may cause thermal burns

Inhalation: Inhalation of dusts may cause respiratory irritation. Inhalation of vapor/fumes generated by heating this product may cause respiratory irritation with Throat discomfort, coughing and difficulty breathing.

Ingestion: Ingestion of product may produce mild gastrointestinal disturbances.

SECTION VI - REACTIVITY DATA

Chemical stability: The product is stable.
Conditions to avoid: Avoid strong oxidizing agents. Avoid dispersion of dust in air. Avoid Ignition sources where dust is produced.
Incompatibility: May react with strong oxidizing agents
Hazardous Decomposition: Smoke, carbon monoxide, carbon dioxide, and other products of Combustion.

SECTION VII - SPILL OR LEAK PROCEDURES

Environmental Hazards: No adverse effects known or suspected. Not an RCRA hazardous substance or OSHA hazardous chemical. Does not contain a listed toxic chemical under SARA Title 111 §302,§304 or§313. Sweep up and discard
Spillage: Sweep up and discard
Waste Disposal Method: Landfill according to local and national Regulations.
Other Precautions: Spillage may result in slippery conditions. When transporting material, care should be taken to avoid dust

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

Respiratory Protection: Use NIOSH approved dust mask or respirator where airborne dust is generated. Observe OSHA regulations for respirator use
Gloves: None required.
Eye Protection: NIOSH approved safety glasses or goggles
Other Protective Equipment: None required.
Personal Hygiene: Avoid breathing dust. Avoid contact with eyes. Wash eyes out.
Engineering Control: Local exhaust is recommended for operations that generate nuisance dust in excess of OSHA exposure limits

SECTION IX - SPECIAL PRECAUTIONS

OSHA Exposure Limit: Nuisance Dust: OSHA PEL 15 mg/m³, ACGIH TLV 10mg/m³.Respirable Fraction OSHA PEL 5mg/m³,ACGIH TLV 5 mg/m³
Exposure Analysis Method: NIOSH Manual of Analytical methods, 3rd., Method 7501(1984)
Keep out of Reach of Children

The information contained herein is based on the data available to us and is believed to be accurate. However, the Sino-American Pigment Systems, Inc. makes no warranty, express or implied, regarding the accuracy of this data or the results to be obtained