



MATERIAL SAFETY DATA SHEET

Information Telephone Number (973) 772-5252

ALL CHEMICAL EMERGENCIES

1-800-424-9300 - USA

1-703-527-3887 - International

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SECTION I - PRODUCT IDENTIFICATION

Product Code: Alexander, Alicon, Nury, Accent, Starlight, Solids, Sparkle, Custom Colors
Trade Name: **GRANICOAT - ULTRA**
Product Class: Unsaturated Polyester Resin
C.A.S. Number: Mixture
HMIS Rating: Health = 2 Fire = 3 Reactivity = 2

SECTION II - INGREDIENTS

<u>Ingredients</u>	<u>CAS#</u>	<u>Max. Content</u>	<u>Exposure Limits</u>
Styrene Monomer	100-42-5	24%	50.0 ppm
Methyl Methacrylate	80-62-6	4%	100.0 ppm
Polyester Resin	Proprietary	Proprietary	Non Assigned
Galaxy Granules	N/A	Proprietary	N/A
Inorganic Filler	N/A	Proprietary	N/A
Pigment (TiO ₂)	13463-67-7	Proprietary	N/A

SECTION III - PHYSICAL DATA

Boiling Point: 270-300°F Vapor Density: Heavier than air
Specific Gravity: 1.4 Volatile %: 28 by weight
Evaporation Rate: Slower than n-Butyl Acetate
Appearance: Colored liquid with high viscosity

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Class: 1C Flash Point: 92°F
LEL: 1.1

- EXTINGUISHING MEDIA: Water spray, foam, dry chemical, carbon dioxide or any Class B extinguishing agent.
- SPECIAL FIRE FIGHTING PROCEDURE: Fire fighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.
- UNUSUAL FIRE & EXPLOSION HAZARDS: At elevated temperatures, such as in a fire, polymerization may take place. If polymerization takes place in a closed container, there is the possibility of violent rupture of the container. Product vapor may form an explosive mixture in air.

SECTION V - HEALTH HAZARD DATA

- PERMISSIBLE EXPOSURE LEVEL: OSHA, PEL and ACGIH TLV for styrene are 50 ppm for an eight hour Time Weighted Average (TWA). The OSHA and ACGIH Short Term Exposure Level (STEL) are 100 ppm for a fifteen minute period (no ceiling for brief exposures), however the average for a single STEL period must not exceed 100 ppm.

- EFFECTS OF OVEREXPOSURE:

SKIN: Prolonged or frequent contact may cause defatting and dryness of the skin with resultant irritation and possible dermatitis. Styrene may be absorbed through the skin in toxic amounts.

EYES: May cause irritation. Liquid splashes may result in more serious injuries. May cause lachrymation (tears).

INHALATION: Vapors may cause mucous membrane irritation and upper respiratory tract discomfort. High concentrations may result in headache, nausea, insensibility and other central nervous system effects.

INGESTION: May cause gastrointestinal disturbances, pain and discomfort.

- FIRST AID:

SKIN: Wash with soap and water.

EYES: Flush with copious amounts of water for 15 minutes. Seek immediate medical aid.

INHALATION: Remove victim from exposure. If victim is unconscious, administer artificial respiration and/or oxygen as needed. Seek medical aid.

INGESTION: DO NOT INDUCE VOMITING (aspiration hazard). Seek immediate medical help.

- PRIMARY ROUTE(S) OF ENTRY: Inhalation and skin absorption.

SECTION VI - REACTIVITY DATA

- STABILITY: Unstable Stable
- HAZARDOUS POLYMERIZATION: May occur May NOT occur
- INCOMPATIBILITY: Strong acids and oxidizing agents.
- CONDITIONS TO AVOID: Heat and direct sunlight.
- HAZARDOUS DECOMPOSITION PRODUCTS:

Heating of this material to decomposition may cause the emission of irritating acrid fumes.

SECTION VII - SPILL OR LEAK PROCEDURES

- STEPS TO TAKE IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition. Ventilate area. Absorb spill with an absorbent material such as sawdust, vermiculite or sand and place in a closed container. If large spill, dike the area to prevent this material from entering water systems or sewers. This material contains the following ingredients which, if spilled or released in quantities equal to or greater than the Reportable Quantity (RQ), are subject to the reporting requirements of CERCLA and/or SARA (40 CFR parts 302 & 355):

Styrene Monomer	RQ Value = 1,000 lbs
Methyl Methacrylate	RQ Value = 1,000 lbs

- WASTE DISPOSAL METHOD:

This material has been tested and found to have a flash point below 140°F. If discarded, this material and containers should be treated as hazardous wastes based on the characteristic of ignitability as defined under the federal RCRA regulations (40 CFR 261). Disposal of this material and its container, requires compliance with applicable labeling, packaging, and record keeping standards. Solidified and/or scrap finished product is Non-hazardous under RCRA. Check local regulation for details on disposal. For further information, contact your state or local waste agency or the Federal EPA RCRA hotline (800-424-9346 or 202-382-3000).

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If a TLV or PEL listed in section V of this data sheet is exceeded, then suitable respiratory protection must be worn to prevent overexposure.

- VENTILATION: General ventilation is required during normal use. Local ventilation may be required during certain operations to keep exposure levels below the TLV listed in Section II of this data sheet.
- PROTECTIVE GLOVES: Wear appropriate impervious gloves to prevent skin contact.
- EYE PROTECTION: Wear face shield or protective goggles.
- OTHER PROTECTIVE EQUIPMENT: Wear protective clothing to prevent skin contact. Eye wash station and safety shower should be available.

SECTION IX - SPECIAL PRECAUTIONS

- PRECAUTIONS TO BE TAKEN FOR HANDLING AND STORING: Avoid storage above 72°F. Avoid prolonged or repeated skin contact. Avoid inhalation of heated vapors or spray mists.
- OTHER PRECAUTIONS: **Avoid improper addition of promoter and/or catalyst. A promoter and catalyst used with this product should be mixed separately with the product and must never be mixed together.**

SECTION X - SUPPLEMENTAL INFORMATION

- REGULATORY INFORMATION: SCAQMD Rule 1162 establishes specific process, control, housekeeping and record keeping requirements for fabrication operations using polyester resin materials. It is the responsibility of the fabricator to ensure compliance with these requirements. **Styrene is NOT currently listed as a carcinogen by California's Safe Drinking Water and Toxic Enforcement Act of 1986** (Proposition 65).

- SARA HAZARD CLASSIFICATION: This material has been categorized as having the following hazard(s) as defined by SARA Title III regulations (40 CFR 370): acute, fire.

- SARA SECTION 313 LISTED INGREDIENTS: The following ingredients in this material are subject to the reporting requirements of section 313 of SARA and 40 CFR 372 {see Section II for percentage of ingredient(s)}.

Styrene Monomer (100-42-5)

Methyl Methacrylate (80-62-6)

- DOT PROPER SHIPPING NAME: Resin Solution
- UN NUMBER: **UN1866**
- DOT HAZARD CLASS: Flammable liquid **3**
- PACKAGING GROUP: **III**
- HARMONIZED CODE (Schedule B): 3907.30.0000 (Epoxy Resin)

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