

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT IDENTIFIER:**..... Entropy Resins® Elemental Colors EC-E-K1  
**APPLICABLE PRODUCT CODES:** ..... EC-E-K1 (EC-E-K1 kit includes: Berry Red, Bumblebee, Clover Patch, Celestial and Eclipse Translucents; and White Caps Opaque).  
**CHEMICAL FAMILY:**..... Plant-based oil, dye, and pigment mixtures.  
**INTENDED PRODUCT USES:**..... Epoxy resin colorant.  
**PRODUCT USE RESTRICTIONS:**..... None identified.  
**SDS VERSION:** ..... EC-E-K1-2023a

**MANUFACTURER:**  
Gougeon Brothers, Inc.  
100 Patterson Ave.  
Bay City, MI 48706, U.S.A.  
Phone: 310-882-2120 or 989-684-7286  
www.entropyresins.com

**EMERGENCY TELEPHONE NUMBERS (24 HRS):**  
Transportation  
CHEMTREC: ..... 800-424-9300 (U.S.)  
703-527-3887 (International)  
Non-transportation  
Poison Hotline: ..... 800-222-1222

## 2. HAZARDS IDENTIFICATION

### Classification of Substance or Mixture

Not a hazardous substance or mixture.

### Label Elements

Not a hazardous substance or mixture.

### Other Hazards Not Resulting In Classification

Not a hazardous substance or mixture.

## 3. COMPOSITION/INFORMATION ON HAZARDOUS/NON-HAZARDOUS INGREDIENTS

|  | INGREDIENT NAME                               | CAS #          | CONCENTRATION (%) |
|--|---|----------------|-------------------|
| Berry Red, Bumblebee, Clover Patch, Celestial, Eclipse Black | Plant-based oil (non-hazardous)               | Not applicable | 99-100            |
|  | Dyes (non-hazardous)                          | Not applicable | 0.1-1             |
|  |   |                |                   |
| White Caps Opaque  | INGREDIENT NAME                               | CAS #          | CONCENTRATION (%) |
|  | Titanium dioxide (in solution, non-hazardous) | 13463-67-7     | 65-85             |
|  | Plant-based oil (non-hazardous)               | Not applicable | 15-30             |

The exact chemical identity and/or exact percentage (concentration) of each ingredient may be held as confidential business information (CBI). Any ingredient not disclosed in this section may have been determined not to be hazardous to health or the environment, or it may be present at a level below its disclosure threshold.

## 4. FIRST AID MEASURES

**FIRST AID FOR EYES**..... SYMPTOMS: May cause slight irritation. RESPONSE: Flush immediately with water for at least 15 minutes. Remove contact lenses if present and easy to do. Consult a physician or ophthalmologist if irritation develops and persists.

**FIRST AID FOR SKIN**..... SYMPTOMS: Prolonged or excessive skin contact may result in mild skin irritation. May cause temporary stain to the skin. RESPONSE: Remove contaminated clothing. Wash with soap and water.

**FIRST AID FOR INHALATION**..... SYMPTOMS: Excessive inhalation of airborne mist may result in mild respiratory irritation. RESPONSE: Remove to fresh air if respiratory irritation occurs and keep comfortable for breathing. Call a POISON CENTER or doctor if symptoms develop and you feel unwell.

**FIRST AID FOR INGESTION**..... SYMPTOMS: If a significant amount is ingested it may cause gastrointestinal disturbance. If this occurs, seek medical advice and provide this Safety Data Sheet. RESPONSE: Consult with a doctor you feel unwell.

## 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** ..... SUITABLE: Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water spray-mist.  
**NON-SUITABLE:** Direct high-pressure water stream.

**FIRE AND EXPLOSION HAZARDS:** ..... Product is not considered a fire hazard, but may burn if ignited. During a fire, smoke may contain the original materials in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include, but are not limited to: carbon monoxide and carbon dioxide.

**SPECIAL FIRE FIGHTING PROCEDURES:** ..... Wear a self-contained breathing apparatus and complete full-body personal protective equipment. Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat.

**6. ACCIDENTAL RELEASE MEASURES**

**EMERGENCY PROCEDURES:** ..... Keep unnecessary and unprotected personnel from entering area. Use appropriate safety and personal protective equipment as indicated in Section 8. Material can create slippery conditions.

**MITIGATION AND CLEAN UP PROCEDURES:** ..... Stop leak without additional risk. Isolate area. Dike and absorb with inert material (e.g., sand) and collect in a suitable, closed container. Warm, soapy water may be used to clean residual. Material can create slippery conditions.

**ENVIRONMENTAL PRECAUTIONS:** ..... Prevent from entering into soil, ditches, sewers, waterways and groundwater. See Section 12 for environmental impact information.

**7. HANDLING AND STORAGE**

**STORAGE TEMPERATURE (min./max.):** ..... 41°F (5°C) / 95°F (35°C)

**STORAGE:** ..... Store in ambient, dry place. Store in tightly sealed containers. Store away from incompatible substances listed in Section 10. Avoid freezing. Keep away from open flames, hot surfaces and sources of ignition. To maintain quality, do not store near heat or direct sunlight.

**HANDLING PRECAUTIONS:** ..... Avoid excessive skin and eye contact. Wash thoroughly after handling.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** ..... Use with adequate general ventilation and/or local ventilation to keep exposures below established limits.

**EYE PROTECTION GUIDELINES:** ..... Safety glasses with side shields or chemical splash goggles.

**SKIN PROTECTION GUIDELINES:** ..... Wear liquid-proof, chemical resistant gloves (nitrile-butyl rubber or neoprene for full contact; nitrile-butyl rubber or neoprene for minor or splash contact).

**RESPIRATORY PROTECTION GUIDELINES:** ..... Respiratory protection typically not required under normal conditions of use. If exposed to product in the form of an airborne mist/aerosol, and ventilation cannot be made adequate enough to keep exposures below established limits, use a NIOSH approved respirator for vegetable oil mist/aerosol, such as an R or P mask with 95-100% efficiency rating. Consult with your respirator and cartridge supplier to ensure proper selection of respirator and cartridge based on ingredients listed in Section 3 and specific workplace conditions. Use and select a respirator according the guidelines established in OSHA 1910.134 or other applicable respiratory protection standard.

A component of this kit product (Opaque White Caps White) contains titanium dioxide (TiO<sub>2</sub>), which is listed by IARC as a Group 2B – possibly carcinogenic to humans by IARC via inhalation. No significant inhalation exposure is expected to occur during use of products in which TiO<sub>2</sub> is present in a liquid dispersion or when bound to other materials. Risk of overexposure depends on actual concentration in the formula and duration and level of exposure to dust from sanding or similar machining operations of solidified product. When sanding or machining solidified product and creating an airborne dust that may contain TiO<sub>2</sub>, consider the use of appropriate respiratory protection, such as a N95 particulate filter or greater.

**ADDITIONAL PROTECTIVE MEASURES:** ..... Practice good caution and personal cleanliness to avoid skin and eye contact. Wash thoroughly after handling. Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the potential for harmful exposure to this product under normal use conditions.

**OCCUPATIONAL EXPOSURE LIMITS:** ..... Exposure limits may not be established for this product as a whole. For established exposure limits of specific ingredients in this product, or other available exposure limit information, refer to the table below.

| Ingredient Name                               | CAS#           | Exposure Limit Information   |
|---|----------------|--|
| Plant-based oil (non-hazardous)               | Not applicable | When in the form of an airborne mist/aerosol, observe the OSHA and ACGIH limits for "vegetable oil mist" shown below.<br>OSHA PEL: [15mg/m <sup>3</sup> (mist) 8-hr TWA], [5 mg/m <sup>3</sup> mist (respirable) 8-hr TWA].<br>ACGIH: TLV: [10mg/m <sup>3</sup> (mist) 8-hr TWA] |
| Dye (non-hazardous)                           | Not applicable | No data available  |
| Titanium dioxide (in solution, non-hazardous) | 13463-67-7     | Note: Only applicable to airborne dust/particulate.<br><br>NIOSH REL 2.4mg/ m3 for fine TiO <sub>2</sub> and 0.3 mg/ m3 for ultra fine.<br>ACGIH 10mg/ m3; Lower respiratory tract irritation. Not classifiable as   |

|  |  |   |
|--|--|---|
|  |  | a human carcinogen.<br>OSHA 15 mg/ m3 – Table Z-1 Limits for Air Contaminants<br>California PEL 5 mg/ m3 – Title 8, Article 107 |
|--|--|---|

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL FORM:**..... Oily liquid.  
**COLOR:**..... Multiple Colors.  
**ODOR:**..... Slight.  
**ODOR THRESHOLD:**..... No data available  
**pH:**..... 6-8 (estimated based on ingredient data)  
**MELTING POINT / FREEZING POINT**..... No data available  
**BOILING POINT (760mm/Hg):**..... No data available.  
**FLASH POINT:**..... No data available. Not expected to be flammable.  
**FLAMMABILITY (solids or gasses)**..... No data available  
**AUTO IGNITION TEMPERATURE**..... No data available °F (°C)  
**LOWER EXPLOSIVE LIMIT (LEL)**..... No data available  
**UPPER EXPLOSIVE LIMIT (UEL)**..... No data available  
**VAPOR PRESSURE**..... No data available (mm Hg @ 20 °C)  
**SPECIFIC GRAVITY/DENSITY (water = 1)**..... 0.95 to 1.2  
**BULK DENSITY**..... (7.98 lbs./gal. to 16.6 lbs./gal) (0.95 kg/L to 1.20 kg/L)  
**VAPOR DENSITY (air = 1)**..... No data available  
**EVAPORATION RATE (Butyl Acetate = 1)**..... No data available  
**WATER SOLUBILITY (% BY WT.)**..... Insoluble to difficult to mix  
**PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)**..... No data available  
**KINEMATIC VISCOSITY:**..... No data available  
**DECOMPOSITION TEMPERATURE:**..... No data available  
**% VOLATILE BY WEIGHT:**..... 0.0% VOC

**10. STABILITY AND REACTIVITY**

**STABILITY:**..... Product is stable at normal temperatures and pressures.  
**REACTIVITY/HAZARDOUS REACTIONS:**..... Product will not undergo hazardous polymerization. Can react violently in contact with strong oxidizing agents, acids and bases.  
**INCOMPATIBILITIES:**..... Can react violently in contact with strong oxidizing agents, acids and bases.  
**CONDITIONS TO AVOID:**..... Avoid freezing. Avoid excessive direct sunlight. Avoid direct, prolonged exposure elevated temperatures.  
**DECOMPOSITION PRODUCTS:**..... Carbon monoxide, carbon dioxide and other unidentifiable smoke fumes.

**11. TOXICOLOGICAL AND HAZARD ENDPOINT INFORMATION**

| Component Name                                | CAS#           | LD <sub>50</sub> Oral | LD <sub>50</sub> Dermal | LC <sub>50</sub> Inhalation |
|---|----------------|-----------------------|-------------------------|-----------------------------|
| Plant-based oil (non-hazardous)               | Not applicable | >5000 mg/kg           | No data                 | No data                     |
| Dye (non-hazardous)                           | Not applicable | No data               | No data                 | No data                     |
| Titanium dioxide (in solution, non-hazardous) | 13463-67-7     | >5000 mg/kg           | No data                 | >6.82 gm/l 4h; rat          |

**ACUTE TOXICITY:**..... No specific toxicity data exists for this mixture. Classification is based on acute toxicity estimation methods using ingredient data.  
 Oral:..... Not classified. Based on available data does not meet classification criteria.  
 Dermal:..... Not classified. Based on available data does not meet classification criteria.  
 Inhalation:..... Not classified. Based on available data does not meet classification criteria.  
**SKIN CORROSION / IRRITATION:**..... Not classified. Based on available data does not meet classification criteria.  
**SERIOUS EYE DAMAGE / IRRITATION:**..... Not classified. Based on available data does not meet classification criteria.  
**RESPIRATORY SENSITIZATION:**..... Not classified. Based on available data does not meet classification criteria.  
**SKIN SENSITIZATION:**..... Not classified. Based on available data does not meet classification criteria.  
**REPRODUCTIVE TOXICITY:**..... Not classified. Based on available data does not meet classification criteria.  
**MUTAGENICITY:**..... Not classified. Based on available data does not meet classification criteria.

**CARCINOGENICITY:**..... Not classified. Based on available data does not meet classification criteria.

This product contains Titanium Dioxide, which is listed by IARC as a Group 2B – possibly carcinogenic to humans. No significant inhalation exposure is expected to occur during use of products in which Titanium Dioxide is present in a liquid dispersion or bound to other materials. Risk of overexposure depends on actual concentration in the formula and duration and level of exposure to dust from sanding or similar machining operations. Studies that have shown tumor developments in rats have shown little or no relevance to tumor development in humans. OSHA or NTP do not classify titanium dioxide as a potential carcinogen.

In lifetime inhalation studies of rats, airborne respirable-size titanium dioxide particles have been shown to cause an increase in lung tumors at concentrations associated with substantial particle lung burdens and consequential pulmonary overload and inflammation. The potential for these adverse health effects appears to be closely related to the particle size and the amount of the exposed surface area that comes in contact with the lung. However, tests with other laboratory animals, such as mice and hamsters, indicate that rats are significantly more susceptible to the pulmonary overload and inflammation that causes lung cancer. Epidemiology studies do not suggest an increased risk of cancer in humans from occupational inhalation exposure to pigmentary titanium dioxide.

**SPECIFIC TARGET ORGAN TOXICITY (Single Exposure):**..... Not classified. Does not meet STOT SE criteria.

**SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure):** ..... Not classified. Does not meet STOT RE criteria.

**ASPIRATION HAZARD:** ..... Not classified. Based on available data does not meet classification criteria.

**OTHER HEALTH HAZARD INFORMATION:**..... None known.

**12. ECOLOGICAL INFORMATION**

**ACUTE AQUATIC TOXICITY:**..... No specific test data available for the mixture. Calculated Estimate: Not classified. Based on available data does not meet classification criteria.

**CHRONIC AQUATIC TOXICITY:** ..... No specific test data available for the mixture. Calculated Estimate: Not classified. Based on available data does not meet classification criteria.

**PERSISTENCE AND BIODEGRADABILITY:** ..... No specific test data available for the mixture.

**MOBILITY IN SOIL:** ..... No specific test data available for the mixture.

**ADDITIONAL ECOTOXICITY INFORMATION:**..... This product may be harmful to aquatic life. Prevent release to the environment, sewers and natural waters.

| Ingredient                                    | CAS#           | Ecotoxicity Classification Information |
|---|----------------|--|
| Plant-based oil (non-hazardous)               | Not applicable | Not Classified.                        |
| Dye (non-hazardous)                           | Not applicable | Not Classified.                        |
| Titanium dioxide (in solution, non-hazardous) | 13463-67-7     | Not Classified.                        |

**13. DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHOD:**..... Evaluation of this product using RCRA criteria shows that it is not a hazardous waste, either by listing or characteristics, in its purchased form. It is the responsibility of the user to determine proper disposal methods.

Incinerate, recycle (fuel blending) or reclaim may be preferred methods when conducted in accordance with federal, state and local regulations.

**14. TRANSPORTATION INFORMATION**

**US DOT**

U.N./N.A. NUMBER:..... Not regulated.  
 SHIPPING NAME:..... Not applicable.  
 TECHNICAL SHIPPING NAME:..... Not applicable.  
 HAZARD CLASS:..... Not applicable.  
 PACKING GROUP:..... Not applicable.

**CANADA TDG**

U.N./N.A. NUMBER:..... Not regulated.  
 SHIPPING NAME:..... Not applicable.  
 TECHNICAL SHIPPING NAME:..... Not applicable.  
 HAZARD CLASS:..... Not applicable.  
 PACKING GROUP:..... Not applicable.

**IMDG**

U.N. NUMBER: ..... Not regulated.  
 SHIPPING NAME:..... Not applicable.  
 TECHNICAL SHIPPING NAME:..... Not applicable.

# Entropy Resins® Elemental Colors EC-E-K1

HAZARD CLASS:..... Not applicable.  
 PACKING GROUP:..... Not applicable.  
 EmS Number: ..... Not applicable.  
 MARINE POLLUTANT ..... Not applicable.

**ICAO/IATA**

U.N. NUMBER: ..... Not regulated.  
 SHIPPING NAME:..... Not applicable.  
 TECHNICAL SHIPPING NAME:..... Not applicable.  
 HAZARD CLASS:..... Not applicable.  
 PACKING GROUP:..... Not applicable.  
 MARINE POLLUTANT: ..... Not applicable.

**15. REGULATORY INFORMATION**

| COUNTRY       | INVENTORY LIST   | STATUS   |
|---------------|------------------|--|
| United States | TSCA             | All ingredients are listed or otherwise compliant. |
| Europe        | EINECS or ELINCS | All ingredients are listed or otherwise compliant. |
| Canada        | CEPA (DSL/NDSL)  | All ingredients are listed or otherwise compliant. |
| Australia     | AICS             | All ingredients are listed or otherwise compliant. |
| Japan         | ENCS             | All ingredients are listed or otherwise compliant. |
| South Korea   | KECI             | All ingredients are listed or otherwise compliant. |
| China         | IECSC            | All ingredients are listed or otherwise compliant. |
| Philippines   | PICCS            | All ingredients are listed or otherwise compliant. |
|               |                  |  |

**US EPA TSCA Requirements:** ..... No data available.

**Canada WHMIS Confidential Business Information (CBI):** ..... No data available.

**US EPA SARA TITLE III Reporting and Notification Requirements:**

- Subject to Section 302 (TPQ) ..... No data available.
- Subject to Section 304 (RQ)..... No data available.
- Subject to Section 311 or 312 ..... Refer to the health and physical classifications in Section 2.
- Subject to Section 313 ..... No data available.

**STATE REGULATORY INFORMATION:**

Chemicals listed below may be specifically regulated by individual states. For details on state regulatory requirements you should contact the appropriate state agency.

**COMPONENT NAME**

CAS NUMBER  
 Titanium dioxide  
 13463-67-7

STATE CODE

<sup>1,2</sup>CA, NJ, PA

1. These substances are known to the state of California to cause cancer or reproductive harm, or both.  
 2. Titanium dioxide, (airborne, unbound particles of respirable size) is a substance listed under California Proposition 65. As present in this product, titanium dioxide does not meet that listing criteria, as it is both bound in a liquid dispersion and therefore not respirable.

**16. OTHER INFORMATION**

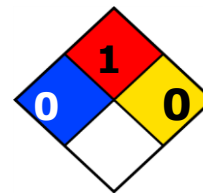
REASON FOR ISSUE:..... New product.  
 PREPARED BY:..... Gougeon Brothers, Inc.  
 SDS CONTACT:..... safety@gougeon.com  
 TITLE: ..... Health, Safety & Environmental Manager  
 APPROVAL DATE: ..... January 3, 2023  
 SUPERSEDES DATE: ..... Not applicable  
 SDS VERSION: ..... EC-E-K1-2023a

**OTHER HAZARD INFORMATION AND RATING SYSTEMS:**

HMIS® RATING

NFPA® 704 CODES

|                             |          |
|-----------------------------|----------|
| <b>HEALTH:</b>              | <b>0</b> |
| <b>FLAMMABILITY:</b>        | <b>1</b> |
| <b>PHYSICAL HAZARD:</b>     | <b>0</b> |
| <b>PERSONAL PROTECTION:</b> |          |



*Approximate HMIS and NFPA Risk Ratings Legend:*  
0 = Low or None; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe

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