# SAFETY DATA SHEET

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Entropy Resins® Black EC-O-ECLIPSE-4

APPLICABLE PRODUCT CODES: .....EC-O-ÉCLIPSE-4

CHEMICAL FAMILY: Plant-based oil and pigment mixture.

INTENDED PRODUCT USES: Opaque black pigment for epoxy resins.

SDS VERSION: ..... EC-O-ECLIPSE-4-2023b

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

Non-transportation

Poison Hotline: ...... 800-222-1222

#### 2. HAZARDS IDENTIFICATION

#### Classification of Substance or Mixture

Not classified as a hazardous substance or mixture

#### **Label Elements**

Not classified as a hazardous substance or mixture

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

| INGREDIENT NAME                           | CAS#               | CONCENTRATION (%) |
|---|--------------------|-------------------|
| Plant-based oil (non-hazardous)           | Not applicable     | 60-80             |
| Carbon black (in solution, non-hazardous) | 1333-86-4          | 10-30             |
| Alkyllammonium salt                       | 398475-96-2        | 1-2.5             |
| Polymer                                   | NJTRSN 800963-5256 | 1-2.5             |

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

#### 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** SUITABLE: Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water fog or haze. NON-SUITABLE: Direct water stream.

#### 6. ACCIDENTAL RELEASE MEASURES

Last Revised: 09MAY23

EMERGENCY PROCEDURES: Keep unnecessary and unprotected personnel from entering area. Use appropriate safety and personal protective equipment as indicated in Section 8. other inert binding materials (e.g., sand) and collect in a suitable, closed container. Warm, soapy water or non-flammable, safe solvent may be used to clean residual. ENVIRONMENTAL PRECAUTIONS: Prevent from entering into soil, ditches, sewers, waterways and groundwater. See Section 12 for environmental impact information. HANDLING AND STORAGE STORAGE: Store at ambient temperature in a dry place. Store in tightly sealed containers away from direct sunlight. Store away from oxidizing agents. contaminated clothing before reuse. Avoid inhalation of vapors from heated product. **EXPOSURE CONTROLS/PERSONAL PROTECTION** exposures below established limits. EYE PROTECTION GUIDELINES: Safety glasses with side shields or chemical splash goggles. butyl rubber or natural rubber). RESPIRATORY PROTECTION GUIDELINES: ...... Respiratory protection typically not required under normal conditions of use with minimal ventilation present. This product contains Carbon Black, which is listed by IARC as a Group 2B - possibly carcinogenic to humans by IARC. No significant inhalation exposure is expected to occur during use of products in which Carbon Black 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 Carbon Black, 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     | No data available.  |
| Carbon black (in solution, non-hazardous) | 1333-86-4          | ACGIH TLV 3 mg/m³ TWA, Inhalable; OSHA PEL 3.5 mg/m³, TWA |
| Alkylolammonium salt                      | 398475-96-2        | No data available.  |
| Polymer                                   | NJTRSN 800963-5256 | No data available.  |

#### PHYSICAL AND CHEMICAL PROPERTIES

| PHYSICAL FORM:                       | Oily viscous liquid.                                |
|--------------------------------------|---|
| COLOR:                               | Black.  |
| ODOR:                                | Mild.   |
| ODOR THRESHOLD:                      | No data available                                   |
| pH                                   | Neutral   |
| MELTING POINT / FREEZING POINT       | No data available                                   |
| BOILING POINT (760mm/Hg):            | No data available                                   |
| FLASH POINT:                         |   |
| AUTO IGNITION TEMPERATURE            | No data available                                   |
| LOWER EXPLOSIVE LIMIT (LEL)          | No data available                                   |
| UPPER EXPLOSIVE LIMIT (UEL)          | No data available                                   |
| VAPOR PRESSURE                       | No data available                                   |
| SPECIFIC GRAVITY/DENSITY (water = 1) | 1.064   |
| BULK DENSITY                         | 8.88 lbs./gal. (1.06 kg/L)                          |
| VAPOR DENSITY (air = 1)              | < 1 mmHg@ 20°C. Estimated based on ingredient data. |
| EVAPORATION RATE (Butyl Acetate = 1) | No data available                                   |
| WATER SOLUBILITY (% BY WT.)          | Not miscible or difficult to mix                    |

Page 2 of 6 Last Revised: 09MAY23 epoxy resin and hardener.

No data available.

#### 10. STABILITY AND REACTIVITY

STABILITY: Product is stable at normal temperatures and pressures.

REACTIVITY/HAZARDOUS REACTIONS: ...... Product will not react by itself.

temperature increase and pressure build up

burned or heated to decomposition.

#### 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 | No data available     | No data available       | No data available           |
| Carbon black (in solution, non-hazardous) | 1333-86-4      | > 8000 mg/kg          | No data available       | No data available           |
| Alkylolammonium salt                      | 398475-96-2    | No data available     | No data available       | No data available           |
| Polymer                                   | NJTRSN 800963- |                       |                         |                             |
|   | 5256           | No data available     | No data available       | No data available           |

heated, vapors generated can cause respiratory irritation if inhaled in high concentrations.

criteria.

This product contains Carbon Black, which is listed by IARC as a Group 2B – possibly carcinogenic to humans by IARC. No significant inhalation exposure is expected to occur during use of products in which Carbon Black 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. Refer to Section 8 respiratory protection information and Section 11 for toxicology information.

Study: Species: Rat, Route: Inhalation, Duration: 2 years, Target Organ: Lungs, Effect: Inflammation, fibrosis, tumors. Note: Tumors in the rat lung are considered to be related to "lung overload" rather than to a specific chemical effect of the carbon black itself in the lung. These effects in rats have been reported in many studies in other poorly soluble inorganic particles and appear to be rat specific (ILSI, 2000). Tumors have not been observed in other species (Ex. mouse, hamster) for carbon black or other poorly soluble particles under similar circumstances and study conditions.

In 2006, IARC re-affirmed its 1995 finding that there is "inadequate evidence" from human health studies to assess whether carbon black causes cancer in humans. IARC concluded that there is "sufficient evidence" in animal studies for the carcinogenicity of carbon black. IARC's overall assessment is that carbon black is "possibly carcinogenic to humans (Group 2B)". This conclusion was based on IARC's guideline's, which generally require such a classification if one species exhibits carcinogenicity in two or more animal studies (IARC, 2010).

ACHIG classifies Carbon Black as a confirmed animal carcinogen with unknown relevance to humans (Category A3).

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.

Page 3 of 6 Last Revised: 09MAY23

Carbon Black: Repeated dose toxicity (inhalation, rat), 90 days, NOAEC = 1.1 mg/m3 (respirable). Target organ effects at higher doses are lung inflammation, hyperplasia, and fibrosis.

#### 12. ECOLOGICAL INFORMATION

Estimate: Does not meet acute aquatic toxicity requirements.

Estimate: Does not meet acute aquatic toxicity requirements.

| Ingredient                                | CAS#               | Ecotoxicity Classification      |
|---|--------------------|---------------------------------|
|   |                    | Information                     |
| Plant-based oil (non-hazardous)           | Not applicable     | Not classified.                 |
| Carbon black (in solution, non-hazardous) | 1333-86-4          | Not classified.                 |
| Alkylolammonium salt                      | 398475-96-2        | Aquatic Chronic Toxicity Cat. 1 |
| Polymer                                   | NJTRSN 800963-5256 | No data available               |

#### 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**

| UN NUMBER:               | Not regulated.  |
|--------------------------|-----------------|
| SHIPPING NAME:           | Not applicable. |
| TECHNICAL SHIPPING NAME: | Not applicable. |
| HAZARD CLASS:            |                 |
| PACKING GROUP:           |                 |

#### **CANADA TDG**

| UN NUMBER:               | Not regulated.  |
|--------------------------|-----------------|
| SHIPPING NAME:           |                 |
| TECHNICAL SHIPPING NAME: | Not applicable. |
| HAZARD CLASS:            | Not applicable. |
|                          | Not applicable  |

#### ICAO/IATA LIN NI IMBER

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|--------------------------|-----------------|
| SHIPPING NAME:           | Not applicable. |
| TECHNICAL SHIPPING NAME: |                 |
| HAZARD CLASS:            |                 |
| PACKING GROUP:           |                 |
| MARINE POLLUTANT:        |                 |

| IMDG                     |                 |
|--------------------------|-----------------|
| UN NUMBER:               | Not regulated.  |
| SHIPPING NAME:           | Not applicable. |
| TECHNICAL SHIPPING NAME: | Not applicable. |
| HAZARD CLASS:            | Not applicable. |
| PACKING GROUP:           | Not applicable. |
| EmS Number:              |                 |
| MARINE POLLUTANT         | Not applicable. |
|                          |                 |

#### 15. REGULATORY INFORMATION

| COUNTRY       | INVENTORY LIST | STATUS   |
|---------------|----------------|--|
| United States | TSCA           | All ingredients are listed or otherwise compliant. |

Not regulated

Page 4 of 6 Last Revised: 09MAY23

| 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             | No data on CAS# 398475-96-2                        |
| South Korea | KECI             | All ingredients are listed or otherwise compliant. |
| China       | IECSC            | All ingredients are listed or otherwise compliant. |
| Philippines | PICCS            | No data 398475-96-2                                |
| New Zealand | NZIoC            | No data 398475-96-2                                |

US EPA TSCA Requirements: 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        |  |

#### 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                            | STATE CODE                     |
|--|--------------------------------|
| Carbon black                           | ·                              |
| 1333-86-4                              | <sup>1, 2</sup> CA, NJ, MA, PA |
| Acetaldehyde (trace level impurity)    |                                |
| 75-07-0                                | <sup>1</sup> CA, NJ, MA, PA    |
| 1,4-Dioxane (trace level impurity)     |                                |
| 123-91-1                               | <sup>1</sup> CA, NJ, MA, PA    |
| Formaldehyde (trace level impurity)    |                                |
| 50-00-0                                | <sup>1</sup> CA, NJ, MA, PA    |
| Ethylene oxide (trace level impurity)  |                                |
| 75-21-8                                | <sup>1</sup> CA, NJ, MA, PA    |
| Propylene oxide (trace level impurity) |                                |
| 75-56-9                                | <sup>1</sup> CA, NJ, MA, PA    |

<sup>1.</sup> These substances are known to the state of California to cause cancer or reproductive harm, or both.

#### 16. OTHER INFORMATION

| REASON FOR ISSUE: | Changes to Section 2 and 14.           |
|-------------------|--|
| PREPARED BY:      | Gougeon Brothers, Inc.                 |
| SDS CONTACT:      | safety@gougeon.com                     |
| TITLE:            | Health, Safety & Environmental Manager |
| APPROVAL DATE:    | May 9, 2023                            |
| SUPERSEDES DATE:  |  |
| SDS VERSION:      |  |

### OTHER HAZARD INFORMATION AND RATING SYSTEMS:

#### **HMIS® RATING**

| HEALTH:              | 1 |
|----------------------|---|
| FLAMMABILITY:        | 1 |
| PHYSICAL HAZARD:     | 0 |
| PERSONAL PROTECTION: |   |

#### NFPA® 704 CODES



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

Page 5 of 6 Last Revised: 09MAY23

<sup>&</sup>lt;sup>2</sup> Carbon black, (airborne, unbound particles of respirable size) is a substance listed under California Proposition 65. As present in this product, carbon black does not meet that listing criteria, as it is both bound in a liquid dispersion and therefore not respirable.

# Entropy Resins® Black EC-O-ECLIPSE-4

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Page 6 of 6 Last Revised: 09MAY23