

# Safety Data Sheet

RCC Corrosion Control / SDS #: RCC-20077 / Revision Date: 09/02/2022

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** COROGARD 77 EN RESIN Various Colors

**Chemical Family:** Novolac Epoxy Resin

**Product Use:** Polymer Coating

**Restrictions on Use:** Use as directed by manufacturer

**Manufacturer:** RCC Corrosion Control  
1450 Hoff Industrial Drive  
O'Fallon, MO 63366  
Phone: 636-697-4659

**24-Hour Emergency Phone Number:** North America: 800-424-9300 (CHEMTREC)  
International: 703-527-3887 (CHEMTREC) Collect Calls Accepted

## 2. HAZARDS IDENTIFICATION

### GHS Classifications

#### **Health Hazards**

Skin Irritation, Category 2

Eye Irritation, Category 2A

Respiratory Sensitization, Category 1B

Skin Sensitization, Category 1B

Carcinogenicity, Category 2

Reproductive Toxicity, Category 2

Specific Target Organ Systematic Toxicity, Single Exposure, Category 3, Respiratory Tract Irritation  
[Inhalation, Ingestion, Skin absorption]

#### **Environmental Hazards**

Acute Aquatic Toxicity, Category 2

Chronic Aquatic Toxicity, Category 2

#### **GHS Labeling**

##### **Pictograms:**



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**Signal Word: Warning!**

## **Hazard Statements**

H315: Causes skin irritation  
H319: Causes serious eye irritation  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H335: May cause respiratory irritation  
H351: Suspected of causing cancer  
H373: May cause damage to organs prolonged or repeated exposure  
H401: Toxic to aquatic life  
H411: Toxic to aquatic life with long lasting effects

## **Precautionary Statements**

### **Prevention:**

P202: Do not handle until all safety precautions have been read and understood.  
P233: Keep container tightly closed.  
P260: Do not breathe vapors.  
P264: Wash hands and exposed areas thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only outdoors or in a well-ventilated area.  
P272: Contaminated work clothing should not be allowed out of the workplace  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P285: In case of inadequate ventilation wear respiratory protection.

### **Response:**

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P341: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P314: Get medical advice/attention if you feel unwell.  
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.  
P337 + P313: If eye irritation persists: Get medical advice/attention.  
P342 + P311: If respiratory symptoms persist: Call a POISON CENTER or doctor/physician.  
P362: Take off contaminated clothing and wash before reuse.  
P391: Collect spillage.

### **Storage:**

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.  
P405: Store locked up.

### **Disposal:**

P501: Dispose of contents/container in accordance with local, regional, and federal regulations

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### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

#### Chemical characterization

Novolac Epoxy Resin

Component*	CAS #	Weight %
Phenol-formaldehyde polymer, glycidyl ether	28064-14-4	35 - 50
Alkyl C12-C14 Glycidyl Ether	68609-97-2	3 - 8
Titanium Dioxide	13463-67-7	5 - 10
4,4-Isopropylidenediphenol-Epichlorohydrin Copolymer	25068-38-6	1 - 5
Microcrystalline Silica in the form of Quartz	14808-60-7	35 - 50

### 4. FIRST AID MEASURES

#### Inhalation

**Symptoms & Effects:** Nose, throat and lung irritation, respiratory tract burns and irritation

**Measures:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen. Mouth-to-mouth resuscitation is not recommended as it may be dangerous to the person providing aid. If victim feels unwell, seek medical attention.

#### Skin Contact

**Symptoms & Effects:** Skin irritation, redness, burning sensation, drying of the skin, allergic skin reactions

**Measures:** Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing and shoes while washing. If skin irritation or rash occurs, seek medical advice/attention. Wash contaminated clothing before reuse.

#### Eye Contact

**Symptoms & Effects:** Eye irritation, stinging, tearing, redness, and swelling of the eyes

**Measures:** Immediately rinse eyes with water for at least 15 minutes. Remove contact lenses after the initial few minutes and if easy to do so and continue rinsing. Rinse beneath eyelids by holding eyelids apart with clean fingers while rinsing. Seek immediate medical attention.

#### Ingestion

**Symptoms & Effects:** Stomach or intestinal irritation, nausea, irritation of the throat, dizziness, drowsiness

**Measures:** Seek immediate medical attention. If individual is drowsy or unconscious, have the individual lie down on their left side with their head down. Do not give individual anything by mouth. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. Do not leave individual unattended.

### 5. FIRE FIGHTING MEASURES

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**Suitable Extinguishing Media:** Dry chemical, Carbon dioxide, Water spray or mist, Alcohol Foam

**Unsuitable Extinguishing Media:** Water jet

**Hazardous Combustion Products:** Carbon monoxide, Carbon dioxide

**Protective Equipment for Fire-Fighters:** Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

**Precautions for Fire-Fighters:** Fine dust clouds may form explosive mixtures with air. Organic powders when finely divided over a range of concentrations regardless of particle size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion. When processed with flammable liquids/vapors/mists, ignitable mixtures may be formed with dusts.

## **6. ACCIDENTAL RELEASE MEASURES**

**Protective Equipment:** Recommended to wear chemical splash goggles & resistant gloves and discard of gloves that show tears, pinholes, or signs of wear. Wear proper garments to prevent skin exposure, such as long-sleeves and pants.

**Personal Precautions:** Persons not wearing proper PPE should be excluded from the area of contamination until clean-up has been completed. Ensure adequate ventilation. Pay close attention to the spreading of gases, especially at ground level.

**Environmental Precautions:** Do not allow discharge into drains, surface waters, or sanitary sewer system. Prevent spreading over a wide area by containment or oil barriers. Local authorities should be advised if significant spillages cannot be contained or if material discharges into drains or ground water.

**Methods & Materials for Clean-Up:** Collect spillage with spark-proof tools and explosion-proof equipment. Contain and collect spillage with non-combustible absorbent material such as vermiculite, sodium bicarbonate, sodium carbonate, calcium carbonate, clean sand or non-acidic clay and then dampen the mixture with water. Sweep or scoop up using non-sparking tools and place into suitable containers for prompt disposal according to proper federal, state, and local regulations. Remove residual material with water.

## **7. HANDLING AND STORAGE**

**Handling:** Personal protective equipment should be worn at all times when handling this material. Do not ingest, inhale, or expose eyes and skin to this product. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Do not cut, puncture, or weld on or near the container. Avoid breathing vapors and/or aerosols. Use only in well-ventilated areas. When using, do not eat, drink or smoke. Persons with a history of skin sensitization or respiratory sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Prevent dust accumulation. Wear appropriate respiratory equipment if ventilation is inadequate.

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**Storage:** Do not store near intense heat, open flames, or other sources of ignition. Store in a well-ventilated place, and keep container tightly closed. Store container away from direct sunlight. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

**Incompatible Materials:** Acids, Oxidizing agents

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### **Exposure Limits :**

Exposure limits have not been established for this product.

### **Titanium Dioxide CAS # 13463-67-7**

OSHA	Permissible Exposure Limit (PEL)	15 mg/m <sup>3</sup>
ACGIH	Time weighted average (TWA)	10 mg/m <sup>3</sup>

**Engineering Controls:** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below permissible exposure limits. Provide readily accessible eye wash stations and safety showers.

**Occupational Exposure Controls:** Ensure adequate ventilation, especially in confined areas. Consider all potential hazards of this material, applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting PPE. Ensure that eyewash stations and safety showers are proximal to the work location. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

**Protective and Hygiene measures:** Wash hands before breaks and immediately after handling product. When using, do not eat, drink, or smoke. In case of clothes contamination, remove and wash contaminated clothing before re-use. Discard of contaminated leather articles.

**Eye Protection:** Recommended to wear chemical splash goggles at all times when using this product. Have a suitable eye wash station or bottle nearby in case of splashing into the eyes.

**Hand Protection:** Recommended to wear suitable resistant gloves and discard of gloves that show tears, pinholes, or signs of wear. Suitable gloves will be based on product use and the period of use, and may include neoprene, butyl-rubber, nitrile rubber, etc.

**Skin Protection:** Recommended to wear impervious clothing, such as a full rubber suit, rubber or plastic boots, a slicker suit, and/or long-sleeved clothing, pants and proper foot covering in order to prevent direct skin contact with the product. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

**Respiratory Protection:** A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-

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purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Varied Colored liquid

**Odor:** Mild

**Odor threshold:** No data available

**pH:** No data available

**Melting/freezing point:** No data available

**Boiling point:** > 390°F (200°C)

**Boiling range:** No data available

**Flash point (Tag closed cup):** > 212°F (100°C)

**Evaporation rate:** No data available

**Flammability: Lower Limit:** No data available **Upper Limit:** No data available

**Vapor pressure:** No data available

**Relative vapor density:** No data available

**Density:** 1.2 g/cm<sup>3</sup> (10 lb/gal)

**Solubility in water:** Insoluble

**Partition coefficient (n-octanol/water):** No data available

**Auto-ignition temperature:** 570°F (300°C)

**Decomposition temperature:** No data available

**Viscosity (dynamic):** No data available

## 10. STABILITY AND REACTIVITY

**Reactivity:** No decomposition if stored and applied as directed.

**Chemical Stability:** Stable under normal conditions.

**Possibility of Hazardous Reactions:** Hazardous reactions and polymerization should not occur if stored and used as directed.

**Conditions to Avoid:** Excessive heat, Sparks, Flames, Other ignition sources

**Incompatible Materials:** Acids, Oxidizing agents

**Hazardous decomposition products:** Carbon monoxide, Carbon dioxide

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## 11. TOXICOLOGICAL INFORMATION

**Primary Routes of Exposure:** Inhalation, Skin absorption, Eye contact, Ingestion

**Symptoms Related to Physical, Chemical and Toxicological Characteristics:** Nose, throat and lung irritation, respiratory tract burns and irritation, skin irritation, redness, burning sensation, drying of the skin, allergic skin reactions, eye irritation, stinging, tearing, redness, and swelling of the eyes, stomach or intestinal irritation, nausea, irritation of the throat, dizziness, drowsiness

**Delayed and Immediate Effects & Chronic Effects from Exposure:** This product may cause respiratory sensitization or may cause allergy or asthma symptoms as well as breathing difficulties if inhaled. This product may cause skin sensitization or allergic skin breakouts or reactions. This product is a potential carcinogen as outlined by OSHA and IARC (see below). Based on data from laboratory experiments, this product may harm fertility or the unborn child. This product may harm the respiratory tract with prolonged or repeated exposure.

### **Measures of Toxicity:**

Acute toxicities are calculated based on component toxicities

Mixture: Acute Oral Toxicity: No sufficient data available

Acute Dermal Toxicity: No sufficient data available

Acute Inhalation Toxicity: No sufficient data available

<b>Alkyl C12-C14 Glycidyl Ether</b>	<b>CAS # 68609-97-2</b>
Acute Oral Toxicity	LD <sub>50</sub> Rat: 19,210 mg/kg
Acute Dermal Toxicity	LD <sub>50</sub> Rabbit: > 4,500 mg/kg

<b>Titanium Dioxide</b>	<b>CAS # 13463-67-7</b>
Acute Oral Toxicity	LD <sub>50</sub> Rat: > 5,000 mg/kg
Acute Inhalation Toxicity	LC <sub>50</sub> Rat: > 6.8 mg/l

<b>4,4-Isopropylidenediphenol- Epichlorohydrin Copolymer</b>	<b>CAS # 25068-38-6</b>
Acute Oral Toxicity	LD <sub>50</sub> Rat: 11,400 mg/kg
Acute Dermal Toxicity	LD <sub>50</sub> Rat: > 2,000 mg/kg

<b>Silicon Dioxide</b>	<b>CAS # 7631-86-9</b>
Acute Oral Toxicity	LD <sub>50</sub> Rat: 3,160 mg/kg

### **Carcinogen Claims: (titanium dioxide)**

OSHA: **Yes; 2**, International Agency for Research on Cancer (IARC): **Yes; 2A [Probably Carcinogenic]**

ACGIH: **No; A4 [Not Classifiable]**, National Toxicology Program (NTP) Report on Carcinogens: **No**

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## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** This substance is toxic to aquatic organisms with long lasting effects. It is strongly advised that this substance does not enter the environment. Local authorities should be advised if significant spillages cannot be contained or if material discharges into drains or ground water.

**Alkyl C12-C14 Glycidyl Ether**      **CAS # 68609-97-2**  
Toxicity to Daphnia      EC<sub>50</sub> – 10 mg/l (Daphnia magna)

**Titanium Dioxide**      **CAS # 13463-67-7**  
Toxicity to Daphnia      EC<sub>50</sub> – 1,000 mg/l (Water flea; 48 h)

**Persistence & Degradability:** This product is not readily biodegradable.

**Bio-accumulative Potential:** No data available

**Mobility in Soil:** No data available

**Other Adverse Effects:** No data available

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State or Local regulations.  
Contaminated packaging should be emptied as far as possible before disposal.

## 14. TRANSPORT INFORMATION

### **DOT SHIPPING CLASSIFICATION:**

UN NUMBER: UN3082

PROPER SHIPPING NAME: Environmentally Hazardous Substance, liquid, n.o.s. (Epoxy Resin)

TRANSPORTATION HAZARD CLASS: 9

PACKING GROUP: III

HAZARD LABEL: 9

### **IMDG (Marine) SHIPPING CLASSIFICATION:**

IMDG CODE: 9

UN NUMBER: UN3082

MARINE POLLUTANT: Yes

EmS: F-A; S-F

IMDG PACKING GROUP: III

HAZARD LABEL: 9

### **Description of the goods**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)

### **IATA (Air) SHIPPING CLASSIFICATION:**

ICAO/IATA-DGR: 9

UN NUMBER: UN3082



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HAZARD LABEL: 9

**Description of the goods**

Environmentally Hazardous Substance, liquid, n.o.s. (Epoxy Resin)

## **15. REGULATORY INFORMATION**

All components of this product conform to the following national inventory requirements: US TSCA, EU EINECS and Canada DSL

### **SARA Title III**

#### **Section 302 – Extremely Hazardous Chemicals**

The following ingredients are subject to the supplier notification requirements of Section 302 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 37

*None Listed*

#### **Section 313 – Toxic Chemicals**

The following ingredients are subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 37 *None Listed*

### **OTHER FEDERAL REGULATIONS**

Components of this product are subject to RCRA Hazardous Waste requirements. Clean Air Act (CAA) Hazardous Air Pollutants requirements and OSHA Process Safety Management (PSM) high hazard requirements.

### **CANADIAN REGULATIONS**

Same as OSHA GHS Classification

### **STATE REGULATIONS**

#### **California Proposition 65**

This product does not contain chemicals known to the state of California to cause cancer, birth defects, and other reproductive harm.

#### **Other State Regulations**

The components of this product may be included on the various state hazardous materials lists noted below.

- California Hazardous Substances List/Permissible Exposure List

- California Toxic air contaminants

- Connecticut Permissible Exposure Limits

- Delaware List of Chemicals and RQs

- Hawaii Permissible Exposure Limits

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Idaho Toxic Air Pollutants  
Illinois Toxic Air Contaminants List  
Louisiana Toxic Air Pollutants  
Maine Hazardous Air Pollutants  
Maryland Toxic Air Pollutants for Existing Sources  
Massachusetts Hazardous Substances List  
Michigan Permissible Exposure Limits  
Minnesota Hazardous Substances  
Minnesota Permissible Exposure Limits  
Nebraska Hazardous Air Pollutants  
New Jersey RTK Hazardous Substances List/TCPA Extremely Hazardous Substances List  
New York List of Hazardous Substances  
Ohio Toxic Air Contaminants  
Oklahoma Toxic Air Contaminants  
North Carolina TAP Emissions Rates Requiring a Permit  
Pennsylvania Hazardous Substances List  
Rhode Island Toxic Air Contaminants  
Tennessee Permissible Exposure Limits  
Vermont Hazardous Air Contaminants/Permissible Exposure Limits  
Washington Permissible Exposure Limits for Airborne Contaminants.  
West Virginia Toxic Air Pollutant List  
Wisconsin hazardous Air Contaminants

**Note:** Entries under Section 15 are not intended to be all inclusive of Federal and State laws and regulations. Please consult the appropriate agencies for further clarification of any requirements.

## **16. OTHER INFORMATION**

**Disclaimer:** The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.