

Safety Data Sheet



RCC Corrosion Control / SDS #: RCC-20615 / Revision Date: 05/23/2022

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: COROGARD 615 EP RESIN Various Colors

Chemical Family: Epoxy Resin

Product Use: Coating material

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. HAZARD IDENTIFICATION

GHS Classifications

Health Hazards

Skin Irritation, Category 2

Eye Irritation, Category 2A

Respiratory Sensitization, Category 1B

Skin Sensitization, Category 1A

Germ Cell Mutagenicity, Category 2

Carcinogenicity, Category 1B

Reproductive Toxicity, Category 2

Specific Target Organ Systemic Toxicity, Repeated Exposure, Category 2, Central Nervous System, Liver, Respiratory Tract, Kidneys [Inhalation, Skin absorption, Ingestion]

Physical Hazards

Flammable Liquid, Category 2

Environmental Hazards

Chronic Aquatic Toxicity, Category 2

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GHS-Labeling Pictograms:



Signal Word: Danger!

Hazard Statements

H225: Highly flammable liquid and vapor
H303: Can be harmful if swallowed
H315: Causes skin irritation
H319: Causes serious eye irritation
H332: Harmful if inhaled
H335: May cause respiratory irritation
H351: Suspected of causing cancer
H361: Suspected of damaging fertility or the unborn child
H373: May cause damage to organs through prolonged or repeated exposure
H411: Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention:

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233: Keep container tightly closed.
P235: Keep cool.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe vapors.
P264: Wash skin and exposed areas thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P281: Use personal protective equipment as required.
P285: In case of inadequate ventilation, wear respiratory protection.

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P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340: 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.
P308 + P313: IF exposed or concerned: Get medical/advice attention.
P314: Get medical advice/attention if you feel unwell.
P321: Specific treatment found in supplemental First Aid section of this SDS (Section 4).
P332 + P313: If skin irritation occurs: Get medical advice/attention.
P337 + P313: If eye irritation persists: Get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.
P391: Collect spillage.

Storage:

P403 + P233 + P235: Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P405: Store locked up

Disposal:

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

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical characterization

Component*	CAS #	% By Wt.
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-polymers	25085-99-8	70 - 80
Titanium Dioxide	13463-67-7	10 – 15
Methyl Isobutyl Ketone (MIBK)	108-10-1	1 - 5
Crystalline Silica, quartz	14808-60-7	0.1 - 1

4. FIRST AID MEASURES

Inhalation

Symptoms & Effects: Nose, throat and respiratory tract irritation. Long term exposure can cause Silicosis, which may lead to fatal lung injuries.

Measures: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing has stopped, begin artificial respiration. If breathing is difficult, administer oxygen. If symptoms persist, seek medical attention.

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Skin Contact

Symptoms & Effects: Skin irritation, local redness, allergic skin reactions

Measures: Wash skin with 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, tearing, eye redness

Measures: Rinse eyes with water for at least 15 minutes. Remove contact lenses after the initial few minutes and if easy to do so and resume rinsing. Rinse beneath eyelids by holding eyelids apart with clean fingers while rinsing. If eye irritation persists, seek medical attention.

Ingestion

Symptoms & Effects: Mouth, throat and digestive tract irritation

Measures: Seek immediate medical attention. Do not induce vomiting unless instructed to do so by trained medical personnel. If the victim is drowsy or unconscious, do not give anything by mouth. Place individual on their left side and place their head down. Do not leave victim unattended.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Alcohol-resistant foam, Carbon dioxide, Dry chemical, Water spray

Unsuitable Extinguishing Media: Water stream/jet

Hazardous Combustion Products: Hydrogen chloride, Formaldehyde, 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: This product and the vapors it produces are highly flammable. Vapors are heavier than air and spread along the ground. The vapor/air mixture is explosive, even in empty, un-cleaned containers. Water stream may be ineffective for extinguishment unless used under favorable conditions. This product is volatile and readily gives off flammable vapors which may travel along the ground or be moved by ventilation. Do not allow run-off from firefighting to enter drains or water courses. Use water spray to cool fully closed containers. Avoid spreading burning liquid with water used for cooling purposes.

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6. ACCIDENTAL RELEASE MEASURES

Protective Equipment: Recommended to wear chemical splash goggles & resistant gloves, such as polyvinyl alcohol-based 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. Eliminate all ignition sources and pay 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 constructing a dike. 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: Contained spilled material with inert, non-combustible absorbent materials (e.g. sand, earth, diatomaceous earth, polyethylene or polypropylene fibers, vermiculite, etc.). Remove residual material with soap and hot water. Use spark-proof tools and explosion-proof equipment for clean-up. Transfer to a suitable container for disposal according to proper federal, state, and local regulations.

7. HANDLING AND STORAGE

Handling: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, or solid), all hazard precautions given in this SDS must be observed. Application of a direct flame to a container of this product can cause an explosion and/or fire. Avoid use of electric band heaters as failures of electric band heaters can lead to fire. Take precautionary measures against static discharge.

Wear proper PPE when handling this product including protective gloves, chemical splash goggles, and impervious clothing. Avoid prolonged or repeated skin contact. Regular laundering of contaminated clothing is essential to reduce indirect skin contact with this material. Emergency showers and eye wash stations should be readily accessible. Do not eat, drink or smoke when handling this product.

Storage: Store in a cool (35-109°F [2-43°C]), well-ventilated area, away from heat and ignition sources as well as from incompatible materials (see below). Keep container tightly closed and store locked up.

Incompatible Materials: Amines, Hydrofluoric acid, Fluorine, Chlorine trifluoride, Manganese trioxide, Oxidizing agents, Acids, Bases

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits :

Methyl Isobutyl Ketone	CAS # 108-10-1		
OSHA	Permissible Exposure Limit (PEL)		100 ppm (410 mg/m ³)
ACGIH	Time Weighted Average (TWA)/(STEL)		20 ppm/75 ppm
NIOSH	Recommended Exposure Limit (REL)		50 ppm (205 mg/m ³)
Crystalline Silica, quartz	CAS # 14808-60-7		
OSHA	Permissible Exposure Limit (PEL)		0.1 mg/m ³ / % SiO ₂
ACGIH	Threshold Limiting Value (TLV)		0.025 mg/m ³
NIOSH	Recommended Exposure Limit (REL)		0.05 mg/m ³
Titanium Dioxide	CAS # 13463-67-7		
OSHA	Permissible Exposure Limit (PEL)		15 mg/m ³
ACGIH	Time weighted average (TWA)		10 mg/m ³

Engineering Controls: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposures 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: Do not inhale vapors. 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.

Eye Protection: Recommended to wear tight fitting, chemical splash goggles with side shields when there is potential for the exposure of the eyes to the liquid, vapor or mist. 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 fuller rubber suit and 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.

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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-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: Grey Liquid
Odor: Sweet, Ester
Odor Threshold: No data available
pH: No data available
Melting/freezing point: -No data available
Boiling point: > 212°F (>100°C)
Boiling range: No data available
Flash point (Tag closed cup): 73°F (22.7°C)
Evaporation rate: 1.64 n-Butyl Acetate
Flammability: Lower Limit: 8.0% (V) **Upper Limit:** 12.0% (V)
Vapor pressure: 2.0653 kPa @ 77°F (25°C)
Vapor density: 3.5 (Air = 1)
Relative density: 1.26 g/cm³ (10.50 lb/gal) @ 68°F (20°C)
Solubility in water: Insoluble
Partition coefficient (n-octanol/water): No data available
Auto-ignition temperature: No data available
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: Product will not undergo hazardous polymerization if product is not contacted with amines, namely aliphatic amines, and if storage and use guidelines are followed.

Conditions to Avoid: Heat, Flames, Sparks, Short term exposure to temperatures above 572°F (300°C), Prolonged exposure to temperatures above 482°F (250°C)

Incompatible Materials: Amines, Hydrofluoric acid, Fluorine, Chlorine trifluoride, Manganese trioxide, Oxidizing agents, Acids, Bases

Hazardous decomposition products: Phenols, Silicon tetrafluoride, Carbon monoxide, Carbon dioxide

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11. TOXICOLOGICAL INFORMATION

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

Symptoms Related to Physical, Chemical and Toxicological Characteristics: Nose, throat and respiratory tract irritation, skin irritation, local redness, allergic skin reactions, eye irritation, tearing, eye redness, mouth, throat and digestive tract irritation.

Delayed and Immediate Effects & Chronic Effects from Exposure: Long term exposure can cause Silicosis, which may lead to fatal lung injuries. With repeated exposure, the substance may have effects on the central nervous system, respiratory system, kidneys, and liver. This product may cause respiratory sensitization or may cause allergy or asthma symptoms as well as breathing difficulties if inhaled. This product may result in skin sensitization or allergic skin reactions. This product is suspected of causing mutagenic effects based solely on laboratory animal testing. This substance is suspected of harming fertility and the unborn child based on laboratory animal testing alone. This substance is a potential carcinogen to humans as outlined by OSHA, IARC, ACGIH and the NTP (see below).

Measures of Toxicity:

Acute toxicities are calculated based on component toxicities

Mixture: Acute Oral Toxicity: LD₅₀ Rat: > 4,800 mg/kg

Acute Dermal Toxicity: LD₅₀ Rabbit: > 6,700 mg/kg

Acute Inhalation Toxicity: No sufficient data available

Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-polymers

CAS # 25085-99-8

Acute Oral Toxicity LD₅₀ Rat: > 15,000 mg/kg

Acute Dermal Toxicity LD₅₀ Rabbit: 23,000 mg/kg

Methyl Isobutyl Ketone (MIBK)

CAS # 108-10-1

Acute Oral Toxicity LD₅₀ Rat: 2,080 mg/kg

Acute Dermal Toxicity LD₅₀ Rabbit: > 3,000 mg/kg

Acute Inhalation Toxicity LC₅₀ Rat: > 2,000 ppmV

Titanium Dioxide

CAS # 13463-67-7

Acute Oral Toxicity LD₅₀ Rat: > 5,000 mg/kg

Acute Inhalation Toxicity LC₅₀ Rat: > 6.8 mg/l

Crystalline Silica, quartz

CAS # 14808-60-7

Acute Oral Toxicity LD₅₀ Rat: 22,500 mg/kg

Carcinogen Claims: (Quartz)

OSHA: **Yes; 1B**, International Agency for Research on Cancer (IARC): **Yes; 1 [Carcinogenic to Humans]**

ACGIH: **Yes; A2 [Suspected Human Carcinogen]**, National Toxicology Program (NTP) Report on

Carcinogens: **Yes; [Known Carcinogen]**

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12. ECOLOGICAL INFORMATION

Eco-toxicity: This substance is expected to be 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.

Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-polymers **CAS # 25085-99-8**
Toxicity to Fish LC₅₀ – 2 mg/l (Rainbow Trout; 96 h)
Toxicity to Daphnia EC₅₀ – 1.8 mg/l (Water Flea; 48 h)
Toxicity to Algae ErC₅₀ – 11 mg/l (Fresh Water Algae; 72 h)

Crystalline Silica, quartz **CAS # 14808-60-7**
Toxicity to Fish LC₅₀ > 10,000 mg/l (Carp; 72 h)

Persistence & Degradability: No data available

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: UN1866
PROPER SHIPPING NAME: Resin Solution, flammable
TRANSPORTATION HAZARD CLASS: 3
PACKING GROUP: II
HAZARD LABEL: 3

IMDG (Marine) SHIPPING CLASSIFICATION:

IMDG CODE: 3
UN NUMBER: UN1866
MARINE POLLUTANT: Yes
EmS: F-E; S-E
IMDG PACKING GROUP: II
HAZARD LABEL: 3

Description of the goods

RESIN SOLUTION, flammable

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IATA (Air) SHIPPING CLASSIFICATION:

ICAO/IATA-DGR: 3

UN NUMBER: UN1866

HAZARD LABEL: Flammable

Description of the goods

Resin solution, flammable

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

WARNING: This product contains quartz, a chemical known to the state of California to cause cancer

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

- Idaho Toxic Air Pollutants

- Illinois Toxic Air Contaminants List

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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.

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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.