

Safety Data Sheet



RCC Corrosion Control / SDS #: RCC-20266-BC / Revision Date: 6/1/2022

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: COROFLAKE 266 BC RESIN

Chemical Family: Epoxy Resin / Xylene Solution

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

Acute Toxicity, Inhalation, Category 4*
Skin Irritation, Category 2
Eye Irritation, Category 2B
Respiratory Sensitization, Category 1B
Skin Sensitization, Category 1A
Carcinogenicity, Category 2
Reproductive Toxicity, Category 1A
Specific Target Organ Systemic Toxicity, Single Exposure, Category 3, Central Nervous System [Inhalation]
Specific Target Organ Systemic Toxicity, Repeated Exposure, Category 2, Central Nervous System, Kidneys, Liver [Inhalation, Skin absorption, Ingestion]
Aspiration Hazard, Category 1

Physical Hazards

Flammable Liquid, Category 3

Environmental Hazards

Acute Aquatic Toxicity, Category 2
Chronic Aquatic Toxicity, Category 2

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GHS-Labeling Pictograms:



Signal Word: Danger!

Hazard Statements

H226: Flammable liquid and vapor
H303: Can be harmful if swallowed
H304: May be fatal if swallowed and enters airways
H315: Causes skin irritation
H320: Causes eye irritation
H332: Harmful if inhaled
H336: May cause drowsiness or dizziness
H351: Suspected of causing cancer
H373: May cause damage to organs through prolonged or repeated exposure
H410: Very toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention:

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.
P263: Avoid contact during pregnancy/while nursing.
P264: Wash skin 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.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

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Response:

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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.
P370 + P378: In case of fire: Use alcohol-resistant foam, carbon dioxide, or dry chemical for extinction.
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 #	Weight %
Phenol-Formaldehyde polymer, glycidyl ether	28064-14-4	70 - 90
Xylene	1330-20-7	5 - 10
Ethylbenzene	100-41-4	1 - 5

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4. FIRST AID MEASURES

Inhalation

Symptoms & Effects: Nose, throat and lung irritation, respiratory tract irritation, nausea, headache, dizziness, drowsiness, central nervous system depression, shortness of breath and confusion

Measures: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Keep victim warm and quiet. If respiratory symptoms develop or if victim feels unwell, seek medical attention. If breathing is difficult, administer oxygen.

Note to Physicians: Inhalation of high concentrations of this material, as could occur in confined spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting.

Skin Contact

Symptoms & Effects: Skin irritation, redness, allergic skin reactions, burning sensation, and drying.

Measures: Immediately wash skin with soap and plenty of water. Remove contaminated clothing and shoes while washing. If skin irritation or rash occurs, seek medical advice/attention. Wash contaminated clothing before reuse. Discard of clothing which cannot be decontaminated, including leather articles, such as shoes, belts and watchbands.

Eye Contact

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

Measures: Immediately rinse eyes with water for at least 20 minutes. Remove contact lenses after the initial few minutes and if easy to do so and resume rinsing. Rinse beneath the eyelids by holding eyelids apart with clean fingers. If eye irritation persists, consult a physician, preferably an ophthalmologist.

Ingestion

Symptoms & Effects: Stomach or intestinal irritation, nausea, vomiting, throat irritation, dizziness, drowsiness, headache, and weakness.

Measures: If swallowed, seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth. Place individual on their left side with their head down. Do not induce vomiting unless directed to do so by medical personnel. Do not leave victim unattended.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical, Carbon dioxide, Water spray (fine)

Unsuitable Extinguishing Media: Water stream

Hazardous Combustion Products: Hydrocarbons, Aldehydes, Phenols, Carbon monoxide, Carbon dioxide

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

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Precautions for Fire-Fighters: Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point. Never use welding or cutting torch on or near drums (even empty) because product (even just residue) can ignite explosively. Water may be ineffective for extinguishment unless used under favorable conditions by experienced fire fighters. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

Do not use direct water stream as this may spread fire. Move containers away from fire area if possible to do so without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Water fog, applied gently may be used as a blanket for fire extinguishment. Contain fire water run-off if possible as it may cause environmental damage.

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. Eliminate all ignition sources (flares, flames including pilot lights, electric sparks, etc.) 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: Contained spilled material with inert, non-combustible absorbent materials (e.g. sand, earth, diatomaceous earth, vermiculite) or fibers made from propylene or polyethylene. Transfer to a suitable container for disposal according to proper federal, state, and local regulations. Remove residual material with soap and hot water.

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 data sheet must be observed. Static ignition hazards can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of this material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published Auto-ignition temperature value cannot be treated as safe operating temperatures in chemical processes without

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analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place, and away from incompatible materials.

Incompatible Materials: Alkalis, Amines, Strong acids, Strong oxidizing agents

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits :

Exposure limits have not been established for this product.

Xylene	CAS # 1330-20-7	
OSHA	Permissible Exposure Limit (PEL)	100 ppm (435 mg/m ³)
ACGIH	Threshold Limiting Value (TLV)	100 ppm (435 mg/m ³)
NIOSH	Recommended Exposure Limit (REL)	100 ppm (435 mg/m ³)
Ethylbenzene	CAS # 100-41-4	
OSHA	Permissible Exposure Limit (PEL)	100 ppm (435 mg/m ³)
ACGIH	Threshold Limiting Value (TLV)	20 ppm (87 mg/m ³)
NIOSH	Recommended Exposure Limit (REL)	100 ppm (435 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. Discard of contaminated leather articles.

Eye Protection: Recommended to wear chemical splash goggles if material could be misted or splashed into the eyes. 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: Minimally recommended to wear long-sleeved clothing, pants and proper foot covering in order to prevent direct skin contact with the product. Recommended to wear impervious clothing, full rubber suits, rubber or plastic boots and slicker suits. If skin irritation develops, contact your facility health and

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REDEFINING CORROSION CONTROL

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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-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: Yellow liquid

Odor: Mild

Odor Threshold: No data available

pH: No data available

Melting/freezing point: No data available

Boiling range: No data available

Flash point (Tag closed cup): 77°F (25°C)

Evaporation rate: No data available

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

Vapor pressure: No data available

Vapor density: No data available

Relative density: 1.11 g/cm³ (9.25 lb/gal) @ 68°F (20°C)

Solubility in water: No data available

Partition coefficient (n-octanol/water): log P_{ow} 3.2

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity (dynamic): 9,400 cP (9,400 mPa*s)

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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 in isolation. When in contact with aliphatic amines and extensive heat however, product will cause an irreversible polymerization.

Conditions to Avoid: Heat, Flames, Sparks, Ignition sources

Incompatible Materials: Alkalis, Amines, Strong acids, Strong oxidizing agents

Hazardous decomposition products: Hydrocarbons, Aldehydes, Phenols, Carbon monoxide, Carbon dioxide

11. TOXICOLOGICAL INFORMATION

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

Symptoms Related to Physical, Chemical and Toxicological Characteristics: Skin irritation, redness, eye irritation, tearing of the eyes, stomach or intestinal irritation, respiratory tract irritation, digestive tract irritation, allergy or asthma symptoms, nose, throat and lung irritation, headache, nausea, dizziness, and vomiting.

Delayed and Immediate Effects & Chronic Effects from Exposure: The substance may have effects on the central nervous system. This substance is suspected of harming fertility and the unborn child. This substance is a potential carcinogen to humans (see below).

Measures of Toxicity:

Acute toxicities are calculated based on component toxicities

Mixture: Acute Oral Toxicity: Insufficient Data

Acute Dermal Toxicity: Insufficient Data

Acute Inhalation Toxicity: Insufficient Data

Xylene

Acute Oral Toxicity

Acute Dermal Toxicity

Acute Inhalation Toxicity

CAS # 1330-20-7

LD₅₀ Rat: 4,300 mg/kg

LD₅₀ Rabbit: > 1,700 mg/kg

LC₅₀ Rat: 5,000 ppmV

Ethylbenzene

Acute Dermal Toxicity

CAS # 100-41-4

LD₅₀ Rabbit: 15,400 mg/kg

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Carcinogen Claims: (ethyl benzene)

OSHA: **Yes; 2**, International Agency for Research on Cancer (IARC): **Yes; 2B**

ACGIH: **Yes, A3**, National Toxicology Program (NTP) Report on Carcinogens: **No**

12. ECOLOGICAL INFORMATION

Ecotoxicity: This substance is toxic to aquatic organisms. It is strongly advised that this substance does not enter the environment.

Xylene	CAS # 1330-20-7
Toxicity to Fish	LC ₅₀ – 25.5 mg/l (Fathead Minnow; 96 h)
Toxicity to Daphnia	LC ₅₀ – > 100 mg/l (Water flea; 24h)

Ethylbenzene	CAS # 100-41-4
Toxicity to Fish	LC ₅₀ – 9.1 mg/l (Fathead Minnow; 96 h)
Toxicity to Daphnia	EC ₅₀ – 1.37 mg/l (Water flea; 48h)
Toxicity to Algae	EC ₅₀ – 3.6 mg/l (Green Algae; 96 h)

Persistence & Degradability: Based on component OECD biodegradation tests, this material cannot be considered as readily biodegradable.

Bio-accumulative Potential: No data available

Mobility in Soil: 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: III

HAZARD LABEL: 3

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IMDG (Marine) SHIPPING CLASSIFICATION:

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

Description of the goods

RESIN SOLUTION flammable

IATA (Air) SHIPPING CLASSIFICATION:

ICAO/IATA-DGR: 3
UN NUMBER: UN1866
HAZARD LABEL: Flamm. liquid
IATA-packing instructions – Passenger: 355
IATA -max. quantity – Passenger: 60 L
IATA – packing instructions – Cargo: 366
IATA –max. quantity – Cargo: 220 L
IAO packing group: III
Limited quantity Passenger: Y344 / 10 L

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

Component	CAS #	Weight %	CERCLA RQ
Xylene	1330-20-7	5 - 10%	100
Ethylbenzene	100-41-4	1 - 5%	1,000

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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 (ethylbenzene)

WARNING! This product contains chemicals known to the state of California to cause cancer, birth defects, and other reproductive harm.

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
- 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

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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.