MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: POWERCRETE R120 Part A
CHEMICAL/FAMILY NAME: Epoxy resin
PRODUCT TYPE: Polyfunctional Novolac Resin
PRODUCT/MSDS DISTRIBUTION: United States

MANUFACTURER: Berry Plastics
DIVISION: Corrosion Protection Group
ADDRESS: 11010 Wallisville Road, Houston, TX, 77013

EMERGENCY TELEPHONE NUMBER: CHEMTREC 1-800-424-9300
OTHER TECHNICAL/HEALTH/SAFETY INFORMATION: (713) 676-0085

SECTION II - HAZARDOUS INGREDIENTS

Specific Chemical Name:
1. Phenol, polymer with formaldehyde, glycidyl ether
   Common Name: Epoxy Phenol Novolac (CAS#28064-14-4)
   Exposure Limits:
      OSHA PEL: Not established
      ACGIH TLV: Not established
      Carcinogenicity: This chemical has not been reviewed for carcinogenicity by NTP, IARC, or OSHA.

SECTION III - PHYSICAL DATA

Appearance and Odor: Light Gray viscous liquid
Boiling Point: Greater than 200°C (392°F).
Vapor Pressure: Negligible.
Percent Volatile: Less than 0.5%
Solubility in Water: Negligible.
Specific Gravity: ~1.75-1.80 at 25°C (77°F)
Decomposition Temperature: >200°C (>392°F)
SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: 290°F (143°C) closed cup.
Extinguishing Media: Carbon dioxide, foam, dry chemical, water spray.
Unusual Fire and Explosion Hazards: Decomposition and combustion products may be toxic.

SECTION V - REACTIVITY DATA

Stability: Stable.
Conditions to Avoid: Open flames and elevated temperature.
Incompatibility: Strong oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, aldehydes, acids.
Hazardous Polymerization: Will not occur.
Materials to Avoid: Strong acids or bases in bulk.

SECTION VI - HEALTH HAZARD DATA

Primary Routes of Exposure:
Oral LD50: (Rat) Greater than 2 g/kg.
Dermal LD50: (Rat) Greater than 2 g/kg; (Mouse) Greater than 20g/kg.
Skin Irritation: (Rabbit) Irritant.
Eye Irritation: (Rabbit) Slight irritation.
Inhalation Toxicity (Leso): (Rat) Grater than 1.7mg/L air for 4 hours of aerosol exposure.
(Skin) (Maximum concentration attained).
Sensitization: Moderate sensitizer.
Overexposure Effects: Irritation, sensitization, dermatitis.
Medical conditions aggravated by Exposure: Eye disorders, allergy, eczema, or skin conditions.

SECTION VII – FIRST AID MEASUREMENTS

Emergency and First Aid Procedures:

Eyes: Immediately flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical attention.

Skin: Wash with large amounts of running water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Discard or decontaminate clothing before reuse and destroy contaminated shoes.

Ingestion: Immediately give at least 3-4 glasses of water, but do not induce vomiting. If vomiting occurs, give water again. Do not give anything by mouth to an unconscious or convulsing person. Get immediate medical attention. Have physician determine whether vomiting or stomach evacuation is necessary.

Inhalation: Remove from area to fresh air and provide oxygen. Get immediate medical attention.

Other: Promptly remove wet contaminated non-impervious clothing, wash before reuse.

SECTION VIII - SPILL OR LEAK PROCEDURES

Spill Procedures: Absorb with sand or other absorbent material. Shovel into closable containers for disposal. Wear protective equipment specified below. Flush contaminated area with water. Dispose in accordance with Federal, State, and local regulations.

Waste Disposal Methods: Polymerize in bucket. Add 16 parts of Powercrete R120 Part B to 100 parts of Powercrete R120 Part A by weight or 4 part A to 1 part B by volume.
and thoroughly mix. Set outdoors until the mixture is set up and cooled down, dispose in accordance with Federal, State, and local regulations.

SECTION IX – TRANSPORT INFORMATION

Department of Transportation: Not regulated

SECTION X - SPECIAL PROTECTION INFORMATION

Ventilation: Good general mechanical ventilation and local exhaust.
Protective Gloves: Wear impervious gloves.
Eye Protection: Wear splash-proof chemical goggles.
Respiratory Protection: Organic chemical cartridge respirator, if needed.
Other Protective Equipment: Wear appropriate equipment to prevent eye or skin contact. Use of barrier cream recommended.

SECTION XI - SPECIAL PRECAUTIONS

Emergency Overview : WARNING!

Causes irritation, can cause sensitization and allergic skin reaction.
Avoid contact with eyes, skin, and clothing.
Avoid breathing vapor, mist, or spray.
Use only with good ventilation.
Individuals should wash thoroughly after handling.
Store in cool, dry area in closed containers.
Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed to prevent reuse.
FOR INDUSTRIAL USE ONLY.

SECTION XII - REGULATORY INFORMATION

OSHA Status: This Material Safety Data Sheet (MSDS) has been prepared in compliance with the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.
TSCA Inventory Status: Chemical components listed on TSCA Inventory.
SARA Title III : Section 313 - Toxic Chemicals: This product does not contain a toxic chemical for routine annual ‘Toxic Chemical Release Reporting’ under Sec. 313 (40 CFR 372).
RCRA: Not a hazardous waste under RCRA (40 CFR 261).
CERCLA: Not listed.
Canadian Inventory Status (CEPA): All components included on the Domestic Substances List (DSL).
New Jersey Right-to-Know: The following is required composition information:
   CAS Number: 28064-14-4
   Chemical Name: Formaldehyde, polymer with (Chloromethyl) Oxirane and phenol.
Pennsylvania Right-to-Know: The following is required composition information:
   CAS Number: 28064-14-4
   Chemical Name: Formaldehyde, polymer with (Chloromethyl) Oxirene and phenol.
   Comment: Not on Pennsylvania Hazardous Substance List.
DATE OF ISSUE: June 7, 2008
SUPERSEDES: July 3, 2006

DISCLAIMER
Berry Plastics makes no warranties as to the accuracy or completeness of this information and disclaims any liability in connection with its use. Berry Plastics obligation shall be only as set forth in Berry Plastics standard terms and conditions of sale for this product. In no case will Berry Plastics be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product.

The information presented herein was prepared at Berry Plastics by qualified technical personnel, and to our knowledge it is true and accurate. The information and recommendations are furnished for this product with the understanding that the purchaser will independently determine the suitability of the product for this purpose. The data do not constitute a warranty, expressed or implied, statutory or otherwise, nor are they a representation for which Berry Plastics assumes legal responsibility. The data are submitted for the user's information and consideration only. Any use of this product must be determined by the user to be in accordance with the applicable federal, state, and local laws and regulations.

END
MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:   POWERCRETE R120 Part B  
CHEMICAL/FAMILY NAME: Modified Polyamine  
PRODUCT TYPE: Epoxy Hardener/Treated fumed silica  
PRODUCT/MSDS DISTRIBUTION: United States  
MANUFACTURER: Berry Plastics  
DIVISION: Corrosion Protection Group  
ADDRESS: 11010 Wallisville Road, Houston, TX, 77013

EMERGENCY TELEPHONE NUMBER: CHEMTREC 1-800-424-9300  
OTHER TECHNICAL/HEALTH/SAFETY INFORMATION: (713) 676-0085

SECTION II - HAZARDOUS INGREDIENTS

Specific Chemical Name:

1. Specific chemical identity of this component is confidential.  
   CAS Number: Proprietary  
   Common Name: Modified amine  
   Exposure Limits:  
   OSHA PEL: Not established  
   ACGIH TLV: Not established  
   Carcinogenicity: This chemical has not been reviewed for carcinogenicity by NTP, IARC, or OSHA.

2. Trimethylhexamethylenediamine  
   CAS Number: 25620-58-0  
   Common Name: Not available  
   Exposure Limits:  
   OSHA PEL: Not established  
   ACGIH TLV: Not established  
   Carcinogenicity: This chemical has not been reviewed for carcinogenicity by NTP, IARC, or OSHA.

3. Phenol  
   CAS Number: 108-95-2  
   Common Name: Not available
Exposure Limits:

OSHA PEL: 5 ppm, skin
ACGIH TLV: 5 ppm, skin

Carcinogenicity: This chemical has not been reviewed for carcinogenicity by NTP, IARC, or OSHA.

4. Paratertiarybutylphenol
   CAS Number: 98-54-4
   Common Name: Not available
   Exposure Limits:
     OSHA PEL: Not established
     ACGIH TLV: Not established
   Carcinogenicity: This chemical has not been reviewed for carcinogenicity by NTP, IARC, or OSHA.

5. DIETHYLENETRIAMINE (DETA)
   CAS Number: 111-40-0
   Common Name: DETA
   Exposure Limits:
     OSHA PEL: 1.0000 ppm
     ACGIH TLV: 1.0000 ppm
   Carcinogenicity: This chemical has not been reviewed for carcinogenicity by NTP, IARC, or OSHA.

6. BENZYL ALCOHOL
   CAS Number: 100-51-6
   Common Name: Benzyl alcohol
   Exposure Limits:
     OSHA PEL: Not established
     ACGIH TLV: Not established
   Carcinogenicity: This chemical has not been reviewed for carcinogenicity by NTP, IARC, or OSHA.

7. 4,4’METHYLENE BIS CYCLOHEXANAMINE
   CAS Number: 1761-71-3
   Common Name: Amine
   Exposure Limits:
     OSHA PEL: Not established
     ACGIH TLV: Not established
   Carcinogenicity: This chemical has not been reviewed for carcinogenicity by NTP, IARC, or OSHA

SECTION III - PHYSICAL DATA

Appearance and Odor: Opaque, light yellow/brown paste, amine odor.
Boiling Point: N/A
Decomposition Temperature: Greater than 392°F (200°C).
Solubility in Water: Slightly miscible.
Specific Gravity: 1.01 (water=1) or 8.3 lbs/gallon at 77°F (25°C).
Vapor Pressure: <20.68 mm Hg at 70°F (21°C).
pH: Alkaline
SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: Greater than 200°F (93°C) closed cup.
Extinguishing Media: Carbon dioxide, foam, dry chemical, water spray.
Fire Fighting Procedures - Special: Use self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Decomposition and combustion products may be toxic.

SECTION V - REACTIVITY DATA

Stability: Stable.
Incompatibility: Strong oxidizers and acids.
Hazardous Polymerization: Will not occur

SECTION VI - HEALTH HAZARD DATA

Primary Routes of Exposure: Dermal.
Oral LD50: (Rat) >500 mg/kg (estimate)
Dermal LD50: (Rat) 699 mg/kg (component) (Toxic by skin contact).
Inhalation LC50: (Rat) > 0.18 mg/l air 4 hours. No deaths at 14 days.
Sensitization: Potential sensitizer. (Guinea pig) No sensitization observed.
Skin Irritation: Corrosive. Causes burns.
Eye Irritation: Corrosive. Causes burns.
Medical Conditions Aggravated by Exposure: Allergy, eczema, or skin conditions.
Overexposure Effects: Overexposure can cause chemical burns to the skin and eyes and may result in blindness. Vapors may be severely irritating to the respiratory tract. Considered to be a dermal toxicant. May affect the central nervous system, liver, and kidneys.
Emergency and First Aid Procedures:
Eyes: Immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. If physician is not available, flush for an additional 15 minutes. Get immediate medical attention.
Skin: Under a safety shower, immediately remove contaminated clothing and shoes. Wash affected areas thoroughly with large amounts of water, and soap if available, for at least 15 minutes. Get immediate medical attention. Discard or decontaminate clothing before reuse and destroy contaminated shoes.
Ingestion: Immediately give at least 3-4 glasses of water, but do not induce vomiting. If vomiting occurs, give fluids again. Do not give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.
Inhalation: Remove from area to fresh air. If not breathing, give artificial respiration. Get immediate medical attention. If breathing is difficult, transport to medical care and, if available, give supplemental oxygen.
Other: Promptly remove wet contaminated non-impervious clothing, wash before reuse. Destroy contaminated leather and absorbent shoes.

SECTION VII - SPILL OR LEAK PROCEDURES

Spill Procedures: Avoid all personal contact. Take up with absorbent material. Shovel into closable containers. Flush contaminated area with water.
Ecotoxicity: Discharge to river may kill fish. Waste from this product may present long-term environmental hazards, thus landfill disposal must be considered less acceptable than incineration.
Waste Disposal Methods: Polymerize in bucket. Add 100 parts of Powercrete R120 Part A to 16 parts of Powercrete R120 Part B by weight, or 4 parts Part A to 1 part Part B by volume, and thoroughly mix. Set outdoors until the mixture is set up and cooled down, dispose in accordance with Federal, State, and local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Ventilation: Good general mechanical ventilation and local exhaust.
Protective Gloves: Wear impervious gloves.
Eye Protection: Wear splash-proof chemical goggles.
Respiratory Protection: Organic chemical cartridge respirator, if needed.
Other Protective Equipment: Wear appropriate equipment to prevent probability of skin or eye contact.

SECTION IX - SPECIAL PRECAUTIONS

Emergency Overview: WARNING!

Corrosive to eyes and skin.
Harmful if absorbed through skin.
May cause dermatitis and sensitization and have effects on the central nervous system, liver, and kidneys.
Avoid contact with eyes, skin, and clothing.
Do not breathe vapor, mist, or spray.
Store in tightly closed containers in dry area.
Use only with adequate ventilation.
Individuals should wash thoroughly after handling.
FOR INDUSTRIAL USE ONLY.

SECTION X - REGULATORY INFORMATION

DOT: Proper Shipping Name: Amines, liquid, corrosive, n.o.s. (cy cloaliphatic amine)
    Shipment per 49 CFR 171.11 NAERG guide no:153
Hazard Class: DOT/IATA/ICAO: 8
    IMDG/IMO: 8
ID Number: UN 2735
Packing Group: III
Label Required: Corrosive
OSHA Status: This Material Safety Data Sheet (MSDS) has been prepared in compliance with the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

TSCA Inventory Status: Chemical components listed on TSCA Inventory.
SARA/Title III: Section 313 – Toxic Chemicals: This product is (or contains) a toxic chemical for routine annual 'Toxic Chemical Release Reporting' under Sec. 313 (40 CFR 372).
    108-95-2 Phenol <7.5% concentration
    This information must be included on all MSDS's that are copied and distributed for this material.

RCRA: Not a hazardous waste under RCRA (40 CFR 261).
CERCLA: RQ 7000 lbs (U188).
EPA SARA Title III Section 312 (40CFR370) hazard class
    Immediate Health Hazard. Delayed Health Hazard.
EPA SARA Title III Section 313 (40CFR372) toxic chemicals above “de minimis” level are
    None
STATE REGULATIONS

PROPOSITION 65 SUBSTANCES (component(s) known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the “Safe Drinking Water and Toxic Enforcement Act of 1986”)

None

NEW JERSEY TRADE SECRET REGISTRY NUMBER (S)
05995500-(H2071U)

New Jersey Right-to-Know: The following is required composition information:
1. Generic Name: Modified amine
   NJ Number: 29943300001-5707P
2. Chemical Name: Phenol
   CAS Number: 108-95-2
3. Chemical Name: Trimethylhexamethylenediamine
   CAS Number: 25620-58-0
4. Generic name: cycloaliphatic amine
   NJ Number: 05995500-(C2264U)

Pennsylvania Right-to-Know: The following is required composition information:
1. Chemical Name: Phenol
   CAS Number: 108-95-2
   Comments: Environmental hazard
2. Chemical Name: Confidential
   Generic Name: Modified amine
   Comments: Not on Pennsylvania Hazardous Substance List.
3. Chemical Name: Trimethylhexamethylenediamine
   CAS Number: 25620-58-0
   Comments: Not on Pennsylvania Hazardous Substance List.

INTERNATIONAL REGULATIONS

CANADA

DSL
Included on inventory

WHMIS HAZARD CLASSIFICATION
Class D Division 2A, Class D Division 2B, Class E Corrosive

WHMIS INGREDIENT DISCLOSURE LIST
DIETHYLENETRIAMINE (DETA)
PARATERTIARYBUTYLPHENOL
BENZYL ALCOHOL

WHMIS TRADE SECRET REGISTRY NUMBER (S)

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

None

WHMIS SYMBOLS
Test tube/hand, Stylized T

EUROPEAN ECONOMIC COMMUNITY (EEC)

EINECS/ELINCS MASTER INVENTORY
Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.

EEC SYMBOL
CORROSIVE (C), DANGEROUS FOR THE ENVIRONMENT, (N)

EEC RISK (R) PHRASES
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic Environment (R51/53.) May cause sensitization by skin contact (R43.) Causes burns (R34.) Harmful if swallowed (R22.)

EEC SAFETY PHRASES
In case of contact with eyes, rinse immediately with plenty of water and seek
medical advice (S26.) After contact with skin, wash immediately with plenty of soap and water (S28.) Wear suitable protective clothing, gloves, and eye/face protection (S36/37/39.) Avoid release to the environment. Refer to special instructions/Safety Data Sheet (S61.) In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45.)

AUSTRALIA
AICS
Included on inventory.

JAPAN
MITI
Included on inventory.

PHILIPPINES
PICCS
Included on inventory.

KOREA
ECL
Included on inventory.

CHINA
SEPA
Included on inventory.

PREPARATION INFORMATION

DATE OF ISSUE:       June 7, 2008    SUPERSEDES:       July 3, 2006

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Berry Plastics makes no warranties as to the accuracy or completeness of this information and disclaims any liability in connection with its use. Berry Plastics obligation shall be only as set forth in Berry Plastics standard terms and conditions of sale for this product. In no case will Berry Plastics be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product.

The information presented herein was prepared at Berry Plastics by qualified technical personnel, and to our knowledge it is true and accurate. The information and recommendations are furnished for this product with the understanding that the purchaser will independently determine the suitability of the product for this purpose. The data do not constitute a warranty, expressed or implied, statutory or otherwise, nor are they a representation for which Berry Plastics assumes legal responsibility. The data are submitted for the user’s information and consideration only. Any use of this product must be determined by the user to be in accordance with the applicable federal, state, and local laws and regulations.

END