

**MATERIAL SAFETY DATA SHEET**  
**Powercrete J- Part A**

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATIONS AND OF THE COMPANY UNDERTAKING**

**Product Name** Powercrete J - Part A  
**Product Description** Pipe Coating  
**Manufacturer/Supplier** Berry Plastics Corporation, Tapes and Coatings Division  
**Address** 11010 Wallisville Rd.  
 Houston, TX 77013  
**Phone Number** (713) 676-0085 (Monday – Friday 8:00 am to 5:00 pm)  
**Chemtrec Number** (800) 424-9300  
**Revision Date:**  
**MSDS Date:** April 11, 2011

*Material Safety Data Sheet according to OSHA's Hazcom Standard (29 CFR 1910.1200)*

**2. HAZARDS IDENTIFICATION**

**Emergency Overview**

**Warning!**

Avoid breathing vapor, mist or spray.  
 Causes irritation to eyes and skin and respiratory tract.  
 May cause skin sensitization.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Routes of Entry**

Eye contact - Skin contact - Inhalation (if aerosolized) - Ingestion

**Carcinogenic Status**

Considered carcinogenic by IARC (see Section 11).

**Target Organs**

Skin - Eye - Respiratory System (if aerosolized)

**Health Effects - Eyes**

Liquid, mist or vapor may cause pain, transient irritation and superficial corneal effects.

**Health Effects - Skin**

Repeated exposure may cause skin irritation. May cause skin sensitization.

**Health Effects - Ingestion**

If swallowed, may cause mild irritation to the GI tract.

**Health Effects - Inhalation**

Prolonged repeated exposure may cause irritation.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component Name	CAS#	Concentration
Bisphenol A, diglycidyl ether polymer	25068-38-6	20 - 35%
Quartz	14808-60-7	0.1-10%
Polymers	Proprietary	1 - 10%
Inorganic compounds	Proprietary	55 - 70%

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#### 4. FIRST AID MEASURES

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##### **Eyes**

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

##### **Skin**

Immediately flood the skin with large quantities of water for at least 15 minutes, preferably under a shower. Remove contaminated clothing and continue washing. Contaminated clothing should be washed or dry-cleaned before re-use. Obtain medical attention if blistering occurs or redness persists.

##### **Ingestion**

Do not induce vomiting. Have victim drink 1-3 glasses of water to dilute stomach contents. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

##### **Inhalation**

Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

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#### 5. FIRE - FIGHTING MEASURES

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##### **Extinguishing Media**

Use foam, dry chemical or carbon dioxide.

##### **Unusual Fire and Explosion Hazards**

Decomposition and combustion products may be toxic.

##### **Protective Equipment for Fire-Fighting**

Wear full protective clothing and self-contained breathing apparatus.

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#### 6. ACCIDENTAL RELEASE MEASURES

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Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Wear appropriate protective clothing. Prevent the material from entering drains or watercourses. Notify authorities if spill has entered watercourse or sewer or has contaminated soil or vegetation. Dispose in accordance with federal, state and local regulations.

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#### 7. HANDLING AND STORAGE

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Use in well ventilated area. Use local exhaust ventilation. Use appropriate protective clothing. If this product is sprayed, aerosolized or applied to hot surfaces, wear appropriate protective clothing to prevent contact with skin, eyes and respiratory system. Consider the use of respiratory protection, especially during application to hot surfaces. Avoid contact with eyes, skin and clothing. Keep container tightly closed when not in use.

Storage area should be: - cool - dry - well ventilated - away from incompatible materials - out of direct sunlight - away from sources of ignition

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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##### **Occupational Exposure Standards**

Exposure limits are listed below, if they exist.

##### **Quartz**

ACGIH TLV for Quartz (silica-crystalline) is 0.025 mg/m<sup>3</sup> measured as respirable fraction of the aerosol

##### **Bisphenol A, epichlorohydrin polymer**

None established.

##### **Engineering Control Measures**

Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Respiratory Protection

Wear respiratory protection if there is a risk of exposure to high vapor concentrations, aerosols or if applied to hot surfaces. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

### Hand Protection

Butyl gloves are recommended.

### Eye Protection

Chemical goggles or safety glasses with side shields

### Body Protection

If there is danger of splashing, wear: - overall or apron

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Physical State</b>	Viscous Liquid
<b>Color</b>	Brown
<b>Odor</b>	Slight
<b>pH</b>	Not applicable
<b>Specific Gravity</b>	~1.78
<b>Boiling Range/Point (°C/F)</b>	Not determined
<b>Melting Point (°C/F)</b>	Not determined
<b>Flash Point (°C/F)</b>	>93/200
<b>Vapor Pressure</b>	Not determined
<b>Evaporation Rate</b>	Not determined
<b>Solubility in Water</b>	Insoluble
<b>Vapor Density (Air = 1)</b>	Not Applicable
<b>Viscosity (cSt)</b>	Not determined
<b>VOC (g/l)</b>	Nil

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## 10. STABILITY AND REACTIVITY

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### Stability

Stable under normal conditions.

### Conditions to Avoid

Heat, sparks, flames – contact with incompatibles

### Materials to Avoid

Strong oxidizing agents

### Hazardous Polymerization

Will not occur.

### Hazardous Decomposition Products

Oxides of carbon – aldehydes

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## 11. TOXICOLOGICAL INFORMATION

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### Acute Toxicity

Bisphenol A, diglycidyl ether polymer: Oral LD50(rat) >5000 mg/kg  
Dermal LD50(rabbit)>6000 mg/kg

Inorganic compound: Oral LD50 (rat ) >6450 mg/kg

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## 11. TOXICOLOGICAL INFORMATION

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### Specific Target Organ Systemic Toxicity (single and repeat)

Bisphenol A, diglycidyl ether polymer: Subchronic studies (dermal, rat) showed no apparent system toxicity with the exception of decreased body weight and body weight gain.

### Serious Eye damage/Eye Irritation

Bisphenol A, diglycidyl ether polymer: Slight irritation (rabbit)

### Skin Corrosion/Irritation

Bisphenol A, diglycidyl ether polymer: Moderate irritation (rabbit)

### Respiratory or Skin Sensitization

Bisphenol A, diglycidyl ether polymer: Moderate sensitizer

### Carcinogenicity

Crystalline silica (quartz): IARC Overall Evaluation is 1 (carcinogenic to humans).

### Germ Cell Mutagenicity

Bisphenol A, diglycidyl ether polymer: In vitro tests showed mutagenic effects which were not observed with in vivo tests.

### Toxicity to Reproduction

Bisphenol A, diglycidyl ether polymer: There were no treatment related histologic changes noted nor effects on reproductive performance in rat at any oral dose tested. No adverse effects on embryonic or fetal development were observed in rabbits after dermal exposure.

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## 12. ECOLOGICAL INFORMATION

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### Mobility

No relevant studies identified.

### Persistence/Degradability

Biodegradability: Bisphenol A, epichlorohydrin polymer: 12% (modified Sturm method)

### Bio-accumulation

No relevant studies identified.

### Ecotoxicity

Bisphenol A, epichlorohydrin polymer: LC50 96hr 1.5 mg/l Rainbow Trout  
EC50 24hr 3.6 mg/l Daphnia

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## 13. DISPOSAL CONSIDERATIONS

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For disposal of residual product, mix by weight 100 parts Powercrete J - Part A with 11 parts Powercrete J - Part B or mix by volume 5 parts A to 1 part B. Allow mix to solidify in well ventilated area or outdoors. Dispose of in accordance with all applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Empty containers may contain hazardous residues. Dispose of containers with care. Dispose of in accordance with all applicable local, state and national regulations.

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## 14. TRANSPORT INFORMATION

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<b>DOT CFR 172.101 Data</b>	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A epoxy resin) , (9), UN 3082, III
<b>UN Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A epoxy resin)
<b>UN Class</b>	9
<b>UN Number</b>	UN3082
<b>UN Packaging Group</b>	III
<b>Classification for AIR Transportation (IATA)</b>	Consult current IATA Regulations prior to shipping by air.

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15. REGULATORY INFORMATION

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**US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS**

**TSCA Listing**

All ingredients have been verified for inclusion on the EPA Toxic Substance Control Act Chemical Substance Inventory.

**DSL (Canadian) Listing**

All ingredients in this product have been verified for inclusion on the Domestic Substance List (DSL).

**California Proposition 65**

This product contains materials which the State of California has found to cause cancer, birth defects or other reproductive harm: Quartz (14808-60-7) – Epichlorohydrin (106-89-8) <0.01%

**WHMIS Classification**

D.2 A, D.2.B

This product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains all the information required by these regulations.

**SARA Title III Sect. 311/312 Categorization**

Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

**SARA Title III Sect. 313**

This product does not contain any chemicals that are listed in Section 313 at or above de minimis concentrations.

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16. OTHER INFORMATION

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**NFPA Ratings**

NFPA Code for Flammability - 1  
NFPA Code for Health - 2  
NFPA Code for Reactivity - 0  
NFPA Code for Special Hazards – None

**HMIS Ratings**

HMIS Code for Flammability - 1  
HMIS Code for Health - 2\*  
HMIS Code for Reactivity - 0  
HMIS Code for Personal Protection - See Section 8

**Abbreviations**

N/A: Denotes no applicable information found or available  
CAS#: Chemical Abstracts Service Number  
ACGIH: American Conference of Governmental Industrial Hygienists  
OSHA: Occupational Safety and Health Administration  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
STEL: Short Term Exposure Limit  
NTP: National Toxicology Program  
IARC: International Agency for Research on Cancer

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**Prepared By:** EnviroNet LLC.

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