BERRY PLASTICS CORPORATION AND SUBSIDIARIES
CORROSION PROTECTION GROUP

MATERIAL SAFETY DATA SHEET
Powercrete R65/F1 Part-A

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

Product Name	POWERCRETE R65/F1 (PART- A)
Product Description	Pipe Coating
Manufacturer/Supplier	Berry Plastics Corporation, Corrosion Protection Group
Address	13835, Beaumont Highway, Houston, Texas – 77049 (U.S.A.)
Phone Number	(713) 676-0085 (Monday - Friday 8:00 am to 5:00 pm)
Chemtrec Number	(800) 424-9300
Revision Date:	April 11, 2011
MSDS Date:	March 1, 2007

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#/Codes	Concentration
Bisphenol A, diglycidyl ether polymer	25068-38-6	30 - 45%
Quartz	14808-60-7	0.1- 1%
Titanium Dioxide	13463-67-7	0.1 - <1%
Inorganic compounds	Proprietary	50 - 70%

4. FIRST AID MEASURES

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.

5. FIRE - FIGHTING MEASURES

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.

6. ACCIDENTAL RELEASE MEASURES

Contain and absorb using earth, sand or other insert 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.

7. HANDLING AND STORAGE

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 form sources of ignition

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards
Exposure limits are listed below, if they exist.
Titanium Dioxide
ACGIH TLV: 10 mg/m^3 TWA
OSHA PEL: 15 mg/m^3 TWA (Total dust)
Bisphenol A, epichlorohydrin polymer
None established.
Quartz
ACGIH TLV for Quartz (silica-crystalline) is 0.025 mg/m^3 measured as respirable fraction of the aerosol

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Viscous Liquid
Color	Off white
Odor	Slight
pH	Not applicable
Specific Gravity	1.92 +/- 0.03
Boiling Range/Point (°C/F)	>260°C/500°F
Melting Point (°C/F)	Not determined
Flash Point (PMCC) (°C/F)	Approx. 251°C/484°F (Pensky-Martens)
Vapor Pressure	Approx. 0.03 mbar at 77°C/171°F
Evaporation Rate	Not determined
Solubility in Water	Negligible
Vapor Density (Air = 1)	Not Applicable
Viscosity (cSt)	Not determined
VOC (g/l)	Not determined

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

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

Titanium Dioxide: Oral LD50(rat) >10,000 mg/kg
Dermal LD50(rabbit)>10,000 mg/kg
Inhalation LC50 (rat)>6.8 mg/l

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).

Titanium Dioxide: IARC Overall Evaluation is 2B (Possibly carcinogenic to humans) IARC conclusions are based on evidence showing that high concentrations of pigment-grade (powdered) and ultrafine titanium dioxide dust caused respiratory tract cancer in rats exposed by inhalation and intratracheal instillation. Human studies conducted so far do not suggest an association between occupational exposure to titanium dioxide and an increased risk for cancer.

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.

12. ECOLOGICAL INFORMATION

Mobility

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

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

13. DISPOSAL

For disposal of residual product, mix by weight 100 parts Powercrete R65/F1 - Part A with 36 parts Powercrete R65/F1 - Part B or mix by volume 2 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.

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

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.

EINECS Listing
All ingredients in this product have been verified for inclusion on the European Inventory of Existing Commercial Chemical Substances (EINECS) or specifically exempted.

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)

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.

16. OTHER INFORMATION

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

16. OTHER INFORMATION

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
R: Risk
S: Safety

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