

**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, 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:** October 09, 2009  
**MSDS Date:** June 16, 2008

*Safety Data Sheet according to EC directive 2001/58/EC and OSHA's Hazcom Standard (29 CFR 1910.1200)*

**2. HAZARDS IDENTIFICATION**

**EU Main Hazards**

R36/38 Irritating to eyes and skin.  
 R43 May cause sensitization by skin contact.  
 R51/53 Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.

**Routes of Entry**

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

**Carcinogenic Status**

Considered carcinogenic by IARC (Titanium Dioxide)

**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	R Phrases	Classification
Bisphenol A, epichlorohydrin polymer	28068-38-6 500-033-5	<45%	R36/38, R43, R51/53	Xi; N
Titanium Dioxide	13463-67-7 236-675-5	<2%	None	None
Inorganic compounds	proprietary	>50%	None	None

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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.

##### **Titanium Dioxide**

ACGIH TLV: 10 mg/m<sup>3</sup> TWA

OSHA PEL: 15 mg/m<sup>3</sup> TWA (Total dust)

##### **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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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

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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 – strong Lewis or mineral acids – strong mineral and organic bases – avoid contact with water

### 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

Low order of acute toxicity.

### Chronic Toxicity/Carcinogenicity

Titanium Dioxide: IARC Overall Evaluation is 2B (Possibly carcinogenic to humans)

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**11. TOXICOLOGICAL INFORMATION**

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**Genotoxicity**

This product is not expected to cause any mutagenic effects.

**Reproductive/Developmental Toxicity**

This product is not expected to cause adverse reproductive effects.

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**12. ECOLOGICAL INFORMATION**

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**Mobility**

No relevant studies identified.

**Persistence/Degradability**

No relevant studies identified.

**Bio-accumulation**

No relevant studies identified.

**Ecotoxicity**

No data available.

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**13. DISPOSAL**

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For disposal of residual product, mix (by volume) 2 parts Powercrete R65/F1 Part A with 1 part Powercrete R65/F1 Part B and allow to solidify in well ventilated area. 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.

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**14. TRANSPORT INFORMATION**

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<b>DOT CFR 172.101 Data</b>	Not Regulated
<b>UN Proper Shipping Name</b>	Not Regulated
<b>UN Class</b>	None.
<b>UN Number</b>	None.
<b>UN Packaging Group</b>	None.
<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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**EU Label Information**

Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments(2001/60/EC and 2006/8/EC)

**EU Hazard Symbol and Indication of Danger**

Xi, N: Irritant and Dangerous to the Environment

**R phrases**

R36/38 – Irritating to eyes and skin

R43 – May cause sensitization by skin contact

R51/53 – Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**S phrases**

S(02) - Keep out of reach of children.

S24 – Avoid contact with skin.

S28 – After contact with skin, wash immediately with plenty of water and soap.

S37/39 – Wear suitable gloves and eye/face protection

S(46) – (If swallowed, seek medical advice immediately and show this container or label)

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S61 – Avoid release to the environment.

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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.

**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: Crystalline silica (14808-60-7) 0.004% - Phenyl glycidyl ether (122-60-1)<6 ppm

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

**HMIS Ratings**

HMIS Code for Flammability - 0  
HMIS Code for Health - 1  
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  
R: Risk  
S: Safety

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**16. OTHER INFORMATION**

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The information and recommendations presented in this MSDS are based on sources believed to be accurate. Berry Plastics Corporation, Tapes and Coatings Division assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the **material** for their particular purposes. In particular, we make NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, with respect to such information, and we assume no liability resulting from its use. Users should ensure that any use **or disposal** of the material is in accordance with applicable Federal, State, and local laws and regulations.

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