

**MATERIAL SAFETY DATA SHEET  
 POWERCRETE R-65/F1 PART B**

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Name** POWERCRETE R-65/F1 PART B  
**Product Description:** Pipe Coating  
**Manufacturer/Supplier** Berry Plastics Corporation, Tapes, Bags 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

*This MSDS has been compiled in accordance with - EC Directive 91/155/EC - OSHA's Hazcom Standard (29 CFR 1910.1200)*

**2. COMPOSITION/INFORMATION ON THE COMPONENTS**

| Component Name      | CAS#/Codes           | Concentration | R Phrases                | Classification |
|---------------------|----------------------|---------------|--------------------------|----------------|
| Alkyl Amine         | Proprietary          | 20-65%        | R20/21/22<br>R34,R43,R68 | C              |
| Inorganic compounds | Proprietary          | 20-55%        | None                     | None           |
| Nitrate Compound    | Proprietary          | <3%           | None                     | None           |
| Ethanol             | 64-17-5<br>200-578-6 | <3%           | R11                      | F              |
| Dye Compound        | Proprietary          | <3%           | None                     | None           |

**3. HAZARD IDENTIFICATION**

**EU Main Hazards**

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed  
 R34 Causes burns.  
 R43 May cause sensitization by skin contact.  
 R68 – Possible risk of irreversible effects.

**Routes of Entry**

- Eye contact - Ingestion - Skin contact – Inhalation - Absorption

**Carcinogenic Status**

Not considered carcinogenic by NTP, IARC, and OSHA.

**Target Organs**

Skin — Eye — Respiratory System – Nervous System - Liver

**Health Effects - Eyes**

Contact may cause burning, redness and severe damage including blindness. Vapors may be irritating.

**Health Effects - Skin**

Contact may cause severe irritation, dermatitis and chemical burns. May cause allergic skin reaction. Allergies, eczema and skin conditions may be aggravated by exposure to this product.

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### 3. HAZARD IDENTIFICATION

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**Health Effects - Ingestion**

Swallowing may cause severe burns and permanent damage to the mouth, throat and stomach. May be moderately toxic if swallowed. May cause central nervous system effects such as headache, nausea dizziness, and confusion and breathing difficulties. Chronic exposure can result in liver damage.

**Health Effects - Inhalation**

Inhalation of vapors may be severely irritating and may cause chemical burns to the respiratory tract. Repeated exposure may cause lung damage. May be toxic if inhaled. May cause central nervous system effects such as headache, nausea, dizziness, and confusion and breathing difficulties.

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### 4. FIRST AID MEASURES

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**Eyes**

Immediately flood the eye with plenty of water for at least 20 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 20 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 unless directed to do so by medical personnel. 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.

## 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 as volatile organic chemicals may be released. 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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Standards

Exposure limits are listed below, if they exist

#### Alkyl Amine

None established.

#### Ethanol

ACGIH: TLV 1000 ppm (1880 mg/m<sup>3</sup>) 8 hr TWA

OSHA :PEL 1000 ppm (1900 mg/m<sup>3</sup>) 8 hr TWA

### 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. A NIOSH approved full face respirator may be worn. 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. Consider the use of a face shield if splashing is possible.

### Body Protection

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                       |                    |
|---------------------------------------|--------------------|
| <b>Physical State</b>                 | Viscous liquid     |
| <b>Color</b>                          | Green              |
| <b>Odor</b>                           | Amine odor         |
| <b>pH</b>                             | Alkaline           |
| <b>Specific Gravity</b>               | 1.38 +/-0.03       |
| <b>Boiling Range/Point (°C/F)</b>     | Not determined     |
| <b>Melting Point (°C/F)</b>           | Not determined     |
| <b>Flash Point (PMCC) (°C/F)</b>      | > 200/392          |
| <b>Vapor Pressure(mm HG)at (°C/F)</b> | < 1 mm Hg at 20/68 |

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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|                                |                   |
|--------------------------------|-------------------|
| <b>Evaporation Rate</b>        | Not determined    |
| <b>Solubility in Water</b>     | Slightly miscible |
| <b>Vapor Density (Air = 1)</b> | Heavier than air  |
| <b>VOC (g/l)</b>               | 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 incompatible chemicals

**Materials to Avoid**

- strong oxidizing agents - acids

**Hazardous Polymerization**

Will not occur.

**Hazardous Decomposition Products**

- oxides of carbon - aldehydes – nitrogen oxides – organic compounds

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## 11. TOXICOLOGICAL INFORMATION

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**Acute Toxicity**

**Alkyl amine:** Oral LD50(rat): 400 < LD50 ≤ 2000 mg/kg

Dermal LD50: >2000 mg/kg

Inhalation LC50: 1 < LC50 ≤ 5 mg/l

**Chronic Toxicity/Carcinogenicity**

Not expected to cause long term adverse health effects.

**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**

Alkyl amine: Expected to be not readily biodegradable.

**Bio-accumulation**

Alkyl amine: Not expected to bioaccumulate significantly.

**Ecotoxicity**

Alkyl amine: Toxicity to fish: 10 < LC/EC/IC 50 ≤ 100 mg/l

Toxicity to algae: 10 < LC/EC/IC 50 ≤ 100 mg/l

Acute toxicity- in vertebrates: 10 < LC/EC/IC 50 ≤ 100 mg/l

**13. DISPOSAL**

For disposal of residual product, mix (by volume) 2 parts Powercrete R-65/F1 Part A with 1 part Powercrete R-65/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.

**14. TRANSPORT INFORMATION**

|   |   |
|---|---|
| <b>DOT CFR 172.101 Data</b>                         | Polyamines, liquid, corrosive, n.o.s. (polyalkyl amine) (8) UN2735, PGIII |
| <b>UN Proper Shipping Name</b>                      | Polyamines, liquid, corrosive, n.o.s. (polyalkyl amine)                   |
| <b>UN Class</b>                                     | 8 (corrosive)   |
| <b>UN Number</b>                                    | UN2735  |
| <b>UN Packaging Group</b>                           | III   |
| <b>Classification for AIR Transportation (IATA)</b> | Consult current IATA Regulations prior to shipping by air.                |

**15. REGULATORY INFORMATION**

**EU Label Information**

Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments.

**EU Hazard Symbol and Indication of Danger**

C - Corrosive

**R phrases**

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed

R34 Causes burns.

R43 May cause sensitization by skin contact.

R68 – Possible risk of irreversible effects.

**S phrases**

S23 Do not breathe vapour.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/38 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice.

**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 not been verified for inclusion on the European Inventory of Existing Commercial Chemical Substances (EINECS).

**DSL (Canadian) Listing**

All ingredients in this product have not been verified for inclusion on the Domestic Substance List (DSL).

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## 15. REGULATORY INFORMATION

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**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) 0.003%

**SARA Title III Sect. 302 (EHS)**

The following chemicals have reportable quantities : None

**SARA Title III Sect. 304**

This product does not contain any chemicals subject to SARA Title III Section 304.

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

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

**SARA Title III Sect. 313**

This product contains a chemical that is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: None

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## 16. OTHER INFORMATION

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**NFPA Ratings**

NFPA Code for Flammability - 1  
NFPA Code for Health - 3  
NFPA Code for Reactivity - 0  
NFPA Code for Special Hazards – None

**HMIS Ratings**

HMIS Code for Flammability - 1  
HMIS Code for Health - 3  
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  
R11: Highly Flammable  
F: Highly Flammable  
S: Safety

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**16. OTHER INFORMATION**

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**For further Information email:** [msdstechnical@berryplastics.com](mailto:msdstechnical@berryplastics.com)

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