Section 1 - Identification

1.1 Product Identifier
   Trade Name: BR ECC Blended Mix

1.2 Relevant identified uses of the substance or mixture and uses advised against
   General Use: Concrete-based construction material
   Restrictions on Use: None known

1.3 Details of the supplier of the safety data sheet:
   Company: Buddy Rhodes Concrete Products
             5600 Lower Macungie Rd., Macungie, PA 18062
   Telephone: Domestic: 1 (877) 706-5303
             International: (610) 252-5800 (collect calls accepted)
   E-mail address: Visit our website at www.buddyrhodes.com

1.4 Emergency Contact: Chem-Tel Domestic: 800-255-3924 International: 813-248-0585

Section 2 – Hazard(s) Identification

2.1 Classification of the substance or mixture
   GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)
   H314 Skin Corrosion/Irritation – Category 1
   H317 Skin Sensitization – Category 1
   H318 Serious Eye Damage/Eye Irritation – Category 1
   H335 Specific Target Organ Toxicity, single exposure (respiratory) – Category 3
   H350 Carcinogenicity – Category 1
   H372 Specific Target Organ Toxicity, repeated exposure (respiratory) – Category 1

2.2 GHS Label elements, including precautionary statements

   Pictogram(s):
   Signal word: Danger

   Health Hazards
   H314 Causes severe skin burns and eye damage.
   H317 May cause an allergic skin reaction.
   H318 Causes serious eye damage.
   H335 May cause respiratory irritation
   H350 May cause cancer
   H372 Causes damage to organs through prolonged or repeated exposure

   General Precautions
   P101 If medical advice is needed, have product container or label at hand.
   P102 Keep out of reach of children.
P103  Read label before use.

**Prevention Precautions**

P201  Obtain special instructions before use.
P202  Do not handle until all safety precautions have been read and understood.
P260  Do not breathe dust/fume/gas/mist/vapours/spray.
P264  Wash with soap and water thoroughly after handling.
P270  Do not eat, drink or smoke when using this product.
P271  Use only outdoors or in a well-ventilated area.
P272  Contaminated work clothing should not be allowed out of the workplace.
P280  Wear protective gloves/protective clothing/eye protection/face protection.

**Response Precautions**

P301 + P330 + P331  IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353  IF ON SKIN (or hair): Take off immediately all contaminated clothing.
P304 + P340  IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313  IF exposed or concerned: Get medical advice/attention.
P312  Call a POISON CENTER or doctor/physician if you feel unwell.
P363  Wash contaminated clothing before reuse.

**Storage Precautions**

P403 + P233  Store in a well-ventilated place. Keep container tightly closed.

**Disposal Precautions**

P501  Dispose of contents/container to an approved waste disposal plant.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS** – none known

This product contains a chemical known to be hazardous according to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). (See also Section 3 and 15)

### Section 3 - Composition / Information on Ingredients

#### 3.1 Substances/Mixtures

The following ingredients are hazardous according to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR 1910.1200:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement, Portland, chemicals</td>
<td>65997-15-1</td>
<td>&lt;50</td>
</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>&lt;50</td>
</tr>
<tr>
<td>Calcium Oxide</td>
<td>1305-78-8</td>
<td>0 – 4</td>
</tr>
<tr>
<td>Hexavalent Chromium</td>
<td>18450-29-9</td>
<td>0 – 13 ppm</td>
</tr>
</tbody>
</table>

### Section 4 - First Aid Measures

#### 4.1 Description of first aid measures

**Inhalation**

Remove source(s) of contamination and move victim to fresh air. Seek medical help if coughing or other symptoms persist. Inhalation of large amounts of portland cement requires immediate medical attention. Call a poison center or physician. Remove victim to fresh air and
keep at rest in a position comfortable for breathing. If the individual is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

Eye Contact
Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.

Skin Contact
Get medical attention immediately. Heavy exposure to portland cement dust, wet concrete or associated water requires prompt attention. Quickly remove contaminated clothing, shoes, and leather goods such as watchbands and belts. Quickly and gently blot or brush away excess portland cement. Immediately wash thoroughly with lukewarm, gently flowing water and non-abrasive pH neutral soap. Seek medical attention for rashes, burns, irritation, dermatitis and prolonged unprotected exposures to wet cement, cement mixtures or liquids from wet cement. Burns should be treated as caustic burns. Portland cement causes skin burns with little warning. Discomfort or pain cannot be relied upon to alert a person to a serious injury. You may not feel pain or the severity of the burn until hours after the exposure. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure.

Ingestion
Get medical attention immediately. Call a poison center or physician. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING unless directed to do so by medical personnel. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Have victim drink 60 to 240 mL (2 to 8 oz.) of water. Stop giving water if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

4.2 Most important symptoms and effects, both acute and delayed:
   Eye contact: Causes serious eye damage.
   Inhalation: May cause respiratory irritation.
   Skin contact: Causes severe burns. May cause an allergic skin reaction.
   Ingestion: May cause burns to mouth, throat and stomach.

4.3 Indication of any immediate medical attention and specific treatment needed.
None known.

Section 5 - Fire-Fighting Measures

5.1 Extinguishing Media
Water Fog, Dry Chemical, and Carbon Dioxide Foam

5.2 Special hazards arising from the substance or mixture
None known.
5.3 **Advice for firefighters**
Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off “fuel” to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure demand or positive-pressure mode.

### Section 6 - Accidental Release Measures

6.1 **Personal precautions, protective equipment and emergency procedures**
Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely.

6.2 **Environmental precautions**
Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains or unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. No special environmental precautions required.

6.3 **Methods and material for containment and cleaning up**
Put on appropriate protective gear including NIOSH/MSHA approved self-contained breathing apparatus, rubber boots and heavy rubber gloves. Dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely. Follow applicable OSHA regulations (29 CFR 1910.120) for disposal.

6.4 **Reference to other sections**
See Section 3 for list of Hazardous Ingredients; Sections 8 for Exposure Controls; and Section 13 for Disposal.

### Section 7 - Handling and Storage

7.1 **Precautions for safe handling**
Use good general housekeeping procedures. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices.

7.2 **Conditions for safe storage, including any incompatibilities**
Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet local standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.

7.3 **Specific end use(s)**
These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

### Section 8 - Exposure Controls / Personal Protection

8.1 **Control parameters**

<table>
<thead>
<tr>
<th>Cement, portland, chemicals</th>
<th>USA ACGIH</th>
<th>ACGIH TWA (mg/m³)</th>
<th>1 mg/m³ (respirable fraction)</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (STEL) (mg/m³)</td>
<td>5 mg/m³ 8 hours (respirable fraction)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 mg/m³ 8 hours (respirable dust)</td>
<td></td>
</tr>
</tbody>
</table>
Calcium oxide (1305-78-8)

<table>
<thead>
<tr>
<th>Source</th>
<th>Standard</th>
<th>Limit (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA NIOSH</td>
<td>NIOSH REL (TWA)</td>
<td>5 mg/m³ 10 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³ 10 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(respirable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(respirable dust)</td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>ACGIH TWA (mg/m³)</td>
<td>2 mg/m³ 8 hours</td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>5 mg/m³ 8 hours</td>
</tr>
<tr>
<td>USA NIOSH</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>2 mg/m³ 10 hours</td>
</tr>
</tbody>
</table>

Magnesium oxide (MgO) (1309-48-4)

<table>
<thead>
<tr>
<th>Source</th>
<th>Standard</th>
<th>Limit (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH</td>
<td>ACGIH TWA (mg/m³)</td>
<td>10 mg/m³ 8 hours</td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>15 mg/m³ 8 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(respirable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(inhalable fraction)</td>
</tr>
<tr>
<td>USA NIOSH</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>0.05 mg/m³ 8 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(respirable dust)</td>
</tr>
</tbody>
</table>

Quartz (14808-60-7)

<table>
<thead>
<tr>
<th>Source</th>
<th>Standard</th>
<th>Limit (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH</td>
<td>ACGIH TWA (mg/m³)</td>
<td>0.025 mg/m³ 8 hours</td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (STEL) (mg/m³)</td>
<td>10mg/m³/%SiO2+2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(respirable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30mg/m³/%SiO2+2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(total fraction)</td>
</tr>
<tr>
<td>USA NIOSH</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>0.05 mg/m³ 8 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(respirable dust)</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Respiratory Protection
Respiratory protection is not normally required when using this product with adequate local exhaust ventilation. Where risk assessment shows air-purifying respirators are appropriate, follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators equipped with appropriate filter cartridges as a backup to engineering controls.

Hand Protection
Wear any liquid-tight gloves such as butyl rubber, neoprene or PVC.

Eye Protection
Safety glasses with side shields per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Other Protective Clothing/Equipment
Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

Comments
Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash thoroughly after handling.

Section 9 - Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White powder</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>10 – 11</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data</td>
<td></td>
</tr>
<tr>
<td>Melting / freezing point</td>
<td>No data</td>
<td></td>
</tr>
<tr>
<td>Low / high boiling point</td>
<td>No data</td>
<td></td>
</tr>
<tr>
<td>Upper flammability limits</td>
<td>No data</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limits</td>
<td>No data</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data</td>
<td></td>
</tr>
<tr>
<td>Vapor density (Air=1)</td>
<td>No data</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data</td>
<td></td>
</tr>
<tr>
<td>Solubility in water</td>
<td>No data</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity (H2O=1, at 4 °C)</td>
<td>No data</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>No data</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data</td>
<td></td>
</tr>
</tbody>
</table>
10.1 Reactivity
No hazardous reactions if stored and handled as prescribed/indicated. No corrosive effect on metal. Not fire propagating.

10.2 Chemical stability
These products are stable at room temperature in closed containers under normal storage and handling conditions.

10.3 Possibility of hazardous reactions
Hazardous polymerization cannot occur

10.4 Conditions to avoid
None known

10.5 Incompatible materials
Strong bases and acids

10.6 Hazardous decomposition products
Thermal oxidative decomposition can produce carbon oxides, gasses/vapors, and traces of incompletely burned carbon compounds.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity
No data

Skin Corrosion/Irritation
Causes skin irritation.

Serious Eye Damage/Irritation
Causes serious eye damage.

Respiratory/Skin Sensitization
May cause respiratory tract irritation. May cause sensitization due to the potential presence of trace amounts of hexavalent chromium.

Germ Cell Mutagenicity
No data available

Carcinogenicity
May cause cancer.

Reproductive Toxicity
No data

Specific Target Organ Toxicity – Single Exposure
May cause respiratory tract irritation.

Specific Target Organ Toxicity – Repeated Exposure
Respiratory tract and kidneys.
Aspiration Hazard
No data

**Chronic Exposure:** If dust is generated, repeated exposure through inhalation may cause cancer or lung disease.

**Potential Health Effects – Miscellaneous**
No data

### Section 12 - Ecological Information

#### 12.1 Toxicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium oxide</td>
<td>Chronic NOEC 100 mg/L</td>
<td>Fish—Oreochromis niloticus—Juvenile (Fledgling, Hatchling, Weanling)</td>
<td>46 days</td>
</tr>
<tr>
<td></td>
<td>Fresh water</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 12.2 Persistence and Degradability
No data available

#### 12.3 Bioaccumulative Potential
No data available

#### 12.4 Mobility in Soil
No data available

#### 12.5 Results of PBT and vPvB assessment
No data available

#### 12.6 Other Adverse Effects
No data available

### Section 13 - Disposal Considerations

#### 13.1 Waste treatment methods
Under Resource Conservation and Recovery Act (RCRA) it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste as defined in 40 CFR Part 261. Waste management should be in full compliance with federal, state and local laws. Empty containers retain product residue which may exhibit hazards of material, therefore not to pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

### Section 14 - Transport Information
Not regulated by DOT, IATA or IMDG

### Section 15 - Regulatory Information

#### 15.1 Safety health and environmental regulations/legislation specific for the substance or mixture
This product complies with REACH or is not subject to regulation under REACH. The product does not contain an ingredient listed on either the Candidate List or Authorization List for Substances of Very High Concern (SVHC).

In the United States (EPA Regulations)

TSCA Inventory Status (40 CFR710)
All components of this formulation are listed in the TSCA Inventory. No component of this formulation has been determined to be subject to manufacturing or use restrictions under the Significant New Use Rules (SNURs).

CERCLA Hazardous Substance List (40 CFR 302.4)
None known.

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313
None known.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and community Right-to-Know Act of 1986) Sections 311 and 312
Immediate (Acute), Delayed (Chronic).

State Right-to-Know

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS#</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement, Portland</td>
<td>65997-15-1</td>
<td>NJ, PA</td>
</tr>
</tbody>
</table>

KEEP OUT OF REACH OF CHILDREN

WARNING: Known to the State of CA to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

15.2 Chemical safety assessment
No chemical safety assessment has been carried out for this substance/mixture by the supplier.

16 - Other Information

<table>
<thead>
<tr>
<th>HMIS</th>
<th>NFPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>H 2</td>
<td>2</td>
</tr>
<tr>
<td>F 0</td>
<td>0</td>
</tr>
<tr>
<td>R 0</td>
<td>0</td>
</tr>
</tbody>
</table>

Revision Date: 8/8/2018   Version: 2.0

Abbreviations and acronyms
Disclaimer
The information contained in this Safety Data Sheet (SDS) is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Buddy Rhodes Concrete Products, it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.