SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product name: Hardened Ready-Mix Concrete
Product code: Not available

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Construction use

1.3. Details of the supplier of the safety data sheet
Fordyce Concrete / Century Concrete
11011 Cody
Overland Park, KS 66210 - USA
T 913-451-8900

1.4. Emergency telephone number
Emergency number: CHEMTREC (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
GHS-US classification
Skin Sensitization 1
Carcinogenicity 1A
Specific Target Organ Toxicity After Repeated Exposure 1

2.2. Label elements
GHS-US labelling
Hazard pictograms (GHS-US):

Signal word (GHS-US): Danger
Hazard statements (GHS-US): May cause an allergic skin reaction. May cause cancer. Causes damage to lungs through prolonged or repeated exposure.
Prevention statements (GHS-US): Obtain special instructions before altering (sawing, abrading, demolishing). Do not alter (saw, abrade, demolish) until all safety precautions have been read and understood. Wear protective gloves, clothing, eye protection and face protection. Do not breathe dust generated from sawing, abrading, or demolishing product. Wash hands thoroughly after handling. Do not eat, drink or smoke when altering (sawing, abrading, demolishing) this product.
Response statements (GHS-US): If exposed or concerned: Get medical advice/attention. If on skin: Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
Storage statements (GHS-US): No special storage requirements for hardened concrete.
Disposal statements (GHS-US): Dispose of left-over or demolished product in accordance with local, state, and federal regulations.

Supplemental Information
Read and Follow all precautions listed in the Safety Data Sheet available on request or at Ashgrove.com. Additional information on the selection and use of respirators can be found in the NIOSH Respirator Selection Logic (DHHS [NIOSH] Publication No. 2005-100) and the NIOSH Guide to Industrial Respiratory Protection (DHHS [NIOSH] Publication No. 87-116) available at http://www.cdc.gov/niosh/docs/87-116/.

This product contains greater than 0.1% crystalline silica. Crystalline silica has been linked to cancer, silicosis, and other lung problems in conditions of prolonged airborne over-exposure.

2.3. Other hazards
No additional information available.

2.4. Unknown acute toxicity (GHS-US)
10 percent of the mixture consists of ingredient(s) of unknown acute toxicity.
SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable.

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>(CAS No) 1317-65-3</td>
<td>42 - 44</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Quartz</td>
<td>(CAS No) 14808-60-7</td>
<td>36 - 37.5</td>
<td>Carc. 1A</td>
</tr>
<tr>
<td>Cement, portland, chemicals</td>
<td>(CAS No) 65997-15-1</td>
<td>12 - 14</td>
<td>Skin Irrit. 2</td>
</tr>
<tr>
<td>Gypsum (Ca(SO4).2H2O)</td>
<td>(CAS No) 13397-24-5</td>
<td>0.5 - 1.3</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Magnesium oxide (MgO)</td>
<td>(CAS No) 1309-48-4</td>
<td>0.1 - 1</td>
<td>Not classified.</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

First-aid measures after eye contact: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.

First-aid measures after ingestion: Not a normal route of exposure. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation: Dust may cause respiratory tract irritation.

Symptoms/injuries after skin contact: Dust may cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. Wear gloves when handling product to avoid drying and mechanical abrasion of the skin. May cause sensitization by skin contact.

Symptoms/injuries after eye contact: Dust may cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Symptoms/injuries after ingestion: May result in obstruction and temporary irritation of the digestive tract.

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Treat for surrounding material.

Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Products of combustion may include, and are not limited to: oxides of carbon.

5.3. Advice for firefighters

Protection during firefighting: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2. Methods and material for containment and cleaning up

For containment: Pick up large pieces, then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up: Vacuum or sweep material and place in a disposal container. Use wet methods, if appropriate, to reduce the generation of dust. Provide ventilation.
6.3. Reference to other sections
See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Avoid contact with skin and eyes. Do not breathe dust. Avoid generating dust. Do not swallow. Good housekeeping is important to prevent accumulation of dust. The use of compressed air for cleaning clothing, equipment, etc, is not recommended. Handle and open container with care. When using do not eat, drink or smoke.

Hygiene measures: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep out of the reach of children. Avoid any dust buildup by frequent cleaning and suitable construction of the storage area.

7.3. Specific end use(s)
Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Limestone (1317-65-3)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Quartz (14808-60-7)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>ACGIH TWA (mg/m³)</td>
</tr>
<tr>
<td>OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Cement, portland, chemicals (65997-15-1)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>ACGIH TWA (mg/m³)</td>
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<td>OSHA</td>
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</tbody>
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<tr>
<th>Gypsum (Ca(SO4).2H2O) (13397-24-5)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>ACGIH TWA (mg/m³)</td>
</tr>
<tr>
<td>OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Magnesium oxide (MgO) (1309-48-4)</th>
<th></th>
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<tbody>
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</tr>
<tr>
<td>OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: When using product, provide local and general exhaust ventilation to keep airborne dust concentrations below exposure limits. Use wet methods, if appropriate, to reduce the generation of dust.

Hand protection: Wear suitable gloves.

Eye protection: Safety glasses or goggles are recommended when using product.

Skin and body protection: Wear suitable clothing common to do-it-yourself projects.

Respiratory protection: A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA’s respirator standard (29 CFR 1910.134) and ANSI’s standard for respiratory protection (Z88.2).

Environmental exposure controls: Maintain levels below Community environmental protection thresholds.

Other information: Handle according to established industrial hygiene and safety practices.
SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid
Appearance: Fully cured and hydrated concrete
Colour: Grey
Odour: Earthy
Odour threshold: No data available
pH: No data available
Relative evaporation rate (butylacetate=1): No data available
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): Not flammable
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: 2.2 - 2.6 (Water = 1)
Solubility: No data available
Log Pow: No data available
Log Kow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: No data available
Oxidising properties: No data available
Explosive limits: No data available

9.2. Other information

VOC content: No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity
No dangerous reaction known under conditions of normal use.

10.2. Chemical stability
Stable under normal storage conditions.

10.3. Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid
None known.

10.5. Incompatible materials
None known.

10.6. Hazardous decomposition products
None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified.

Hardened Ready-Mix Concrete

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat</td>
<td>No data available</td>
</tr>
</tbody>
</table>


**Limestone (1317-65-3)**

| LD50 oral rat | 6450 mg/kg |

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

| LD50 oral rat | 5000 mg/kg |

- **Skin corrosion/irritation**: Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**: Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation**: May cause an allergic skin reaction.
- **Germ cell mutagenicity**: Based on available data, the classification criteria are not met.
- **Carcinogenicity**: May cause cancer.

**Quartz (14808-60-7)**

- **IARC group**: 1 - Carcinogenic to humans
- **National Toxicology Program (NTP) Status**: 2 - Known Human Carcinogens
- **Reproductive toxicity**: Based on available data, the classification criteria are not met.
- **Specific target organ toxicity (single exposure)**: Based on available data, the classification criteria are not met.
- **Specific target organ toxicity (repeated exposure)**: Causes damage to lungs through prolonged or repeated exposure. (Respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by the International Agency for Research on Cancer (IARC) and National Toxicology Program (NTP) as a lung carcinogen. Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. While there may be a factor of individual susceptibility to a given exposure to respirable silica dust, the risk of contracting silicosis and the severity of the disease is clearly related to the amount of dust exposure and the length of time (usually years) of exposure.)
- **Aspiration hazard**: Based on available data, the classification criteria are not met.
- **Symptoms/injuries after inhalation**: Dust may cause respiratory tract irritation.
- **Symptoms/injuries after skin contact**: Dust may cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. Wear gloves when handling product to avoid drying and mechanical abrasion of the skin. May cause sensitization by skin contact.
- **Symptoms/injuries after eye contact**: Dust may cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
- **Symptoms/injuries after ingestion**: Not a normal route of exposure. May result in obstruction and temporary irritation of the digestive tract.

### SECTION 12: Ecological information

12.1. **Toxicity**

Ecology - general: No ecological consideration when used according to directions. Do not flush to sewer or allow to enter waterways.

12.2. **Persistence and degradability**

**Hardened Ready-Mix Concrete**

Persistence and degradability: No data available.

12.3. **Bioaccumulative potential**

**Hardened Ready-Mix Concrete**

Bioaccumulative potential: No data available.

12.4. **Mobility in soil**

**Hardened Ready-Mix Concrete**

Ecology - soil: No data available.

12.5. **Other adverse effects**

Effect on the global warming: No known ecological damage caused by this product.

### SECTION 13: Disposal considerations

13.1. **Waste treatment methods**

Waste disposal recommendations: This material must be disposed of in accordance with all local, state, provincial, and federal regulations.
SECTION 14: Transport information
In accordance with DOT
Not regulated for transport.

Additional information
Other information : No supplementary information available.
Special transport precautions : Do not handle until all safety precautions have been read and understood.

SECTION 15: Regulatory information
15.1. US Federal regulations
All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:
Gypsum (Ca(SO4).2H2O) CAS No 13397-24-5

15.2. US State regulations
Hardened Ready-Mix Concrete
State or local regulations
This product contains Crystalline Silica, Quartz and may also contain trace amounts of other chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

SECTION 16: Other information
Date of issue : 01/22/2015
Revision date : 01/22/2015
Version : 1.0
Other information : None.

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard : 0 - Materials that will not burn.
NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

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