SAFETY DATA SHEET
Revision Date 5/15/15

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name: Ready Mixed Concrete

Synonyms: Ready Mix Concrete, Concrete Ready Mix, Portland Cement Concrete, Ready Mix Stucco, Ready Mix Grout, Ready Mix, Concrete, Freshly Mixed Concrete, Colloidal Concrete, Permeable Concrete, Shotcrete, Gunite, Colored Concrete, Flowable Fill, Roller-Compacted Concrete, Fiber Reinforced Concrete

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Concrete is widely used as a structural component in construction applications

1.3 Details of the supplier of the safety data sheet

Company: Central Concrete Supply Co., Inc.
331 N Main St
Euless, Texas 76039
USA
Telephone: +1 817-835-4105

1.4 Emergency telephone number

Emergency Phone #: (800) 424-9300

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin corrosion/irritation (Category 1B), H314
Serious eye damage/eye irritation (Category 1), H318
Carcinogenicity (Category 1B), H350
Specific target organ toxicity, single exposure (Category 2), H371
Specific target organ toxicity, repeated exposure (Category 2) H373

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Warning

Hazard statement(s)
H314 Causes skin burns and eye damage
H318 Causes serious eye damage
H350 May cause cancer
H371 May cause damage to organs
H373 May cause damage to organs through prolonged or repeated exposure

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Avoid breathing dust
P270 Do not eat, drink or smoke when using this product.
P280 Use personal protective equipment as required.
P301 + P330 + P331 If Swallowed, Rinse mouth. Do not induce vomiting
P303 + P361 + P353 If on skin (or hair) remove/take off immediately all contaminated clothing. Rinse skin with water/shower
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.
P309 + P311  If exposed or you feel unwell: Call a poison center or doctor/physician

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aggregate (crushed stone, sand, gravel, expanded shale)</td>
<td>14808-60-7</td>
<td>60-95</td>
</tr>
<tr>
<td>Quartz (crystalline silica)</td>
<td>Mixture</td>
<td>&gt;1</td>
</tr>
<tr>
<td>Hydraulic Cement(s)</td>
<td>65997-15-1</td>
<td>3-20</td>
</tr>
<tr>
<td>Portland and/or Slag Cement</td>
<td>Mixture</td>
<td></td>
</tr>
<tr>
<td>Pozzolan</td>
<td>38131-74-8</td>
<td>0-11</td>
</tr>
<tr>
<td>Artificial Fly Ash</td>
<td>69012-64-2</td>
<td></td>
</tr>
<tr>
<td>Silica Fume</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>6-13</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

4.1  Description of first aid measures

If inhaled
Dusts from hardened product may irritate the mouth, nose, throat and lungs. Remove person to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a physician if irritation persists or later develops.

In case of skin contact
Wash off with soap and plenty of water. Remove contaminated clothing. Contact physician if irritation persists

In case of eye contact
Immediately flush eye(s) with plenty of clean water for at least 15 minutes, while holding the eyelid(s) open. Occasionally lift the eyelid(s) to ensure thorough rinsing. Beyond flushing, do not attempt to remove material from eye(s). Contact a physician if irritation persists or later develops.

If swallowed
If person is conscious do not induce vomiting. Give large quantity of water and get medical attention. Never attempt to make an unconscious person drink.

4.2  Most important symptoms and effects, both acute and delayed
Contact with wet product may result in chemical (caustic) burns and eye injury which may be progressive and could cause blindness. Wet product may result in chemical burns to the skin. Dust may irritate the skin and respiratory tract. Breathing silica-containing dust for prolonged periods in the workplace can cause lung damage and a lung disease called silicosis. Symptoms of silicosis may include (but are not limited to) shortness of breath, difficulty breathing with or without exertion; coughing; diminished work capacity; diminished chest expansion; reduction of lung volume; right heart enlargement and/or failure.

4.3  Indication of any immediate medical attention and special treatment needed
Not all individuals with silicosis will exhibit symptoms of the disease. However, silicosis can be progressive, and symptoms can appear at any time, even years after exposures have ceased. Persons with silicosis have an increased risk of pulmonary tuberculosis infection.

5. FIREFIGHTING MEASURES

5.1  Extinguishing media

Suitable extinguishing media
This product is not flammable. Use extinguishing agents suitable for surrounding materials.
Unsuitable extinguishing media
None

5.2 Special hazards arising from the substance or mixture
Contact with powerful oxidizing agents may cause fire and/or explosions (see section 10 of SDS).

5.3 Advice for firefighters
No unusual fire or other hazards exist.

5.4 Further information
The presence of this material in a fire does not hinder the use of any standard extinguishing medium. Use extinguishing medium for surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid contact with skin. Wear appropriate protective equipment as described in Section 8.

6.2 Environmental precautions
Prevent further leakage or spillage. Do not let product enter drainage systems where it can harden and clog flow.

6.2 Methods and materials for containment and cleaning up
Scrape wet concrete and place in container. Allow material to dry or solidify before disposal.

6.3 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Respirable crystalline silica-containing dust may be generated during processing, handling, and storage. Use all appropriate measures of dust control or suppression, and Personal Protective Equipment (PPE) described in Section 8.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.2 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA/MSHA PEL</th>
<th>ACGIH TLV</th>
<th>NIOSH REL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland Cement</td>
<td>15 (total dust)</td>
<td>10 (respirable fraction)</td>
<td>10 (total dust)</td>
</tr>
<tr>
<td></td>
<td>5 (respirable fraction)</td>
<td></td>
<td>5 (respirable fraction)</td>
</tr>
<tr>
<td>Respirable dust containing silica</td>
<td>10 ÷ (%silica + 2)</td>
<td>Use Respirable Silica TLV</td>
<td>Use Respirable Silica TLV</td>
</tr>
<tr>
<td>Respirable Crystalline Silica (quartz)</td>
<td>NE - Use respirable dust PEL</td>
<td>0.025</td>
<td>0.05</td>
</tr>
<tr>
<td>Respirable Tridymite and Cristobalite (other forms of crystalline silica)</td>
<td>1/2 of OSHA/MSHA respirable dust PEL</td>
<td>0.025</td>
<td>0.05</td>
</tr>
</tbody>
</table>
### Component | OSHA/MSHA PEL | ACGIH TLV | NIOSH REL
--- | --- | --- | ---
Amorphous Silica | 20 mppcf (80 mg/m³/percent silica) | NE | 6
Iron Oxide | 10 (total dust) | 5 (respirable fraction) | 5 (respirable fraction)
Magnesium Oxide | 15 (total dust) | 10 (inhalable fraction) | NE
Aluminum Oxide | 15 (total dust) | 10 (total dust) | 15 (total dust)
Manganese Oxide | 5 (Respirable) 5 (as Mn) | 0.2 (as Mn) | 5 (Respirable) 1 (as Mn)
Particulates Not Otherwise Classified | 15 (total dust) 5 (respirable fraction) | 10 (inhalable fraction) 3 (respirable fraction) | NE

#### 8.2 Exposure controls

#### 8.3 Appropriate engineering controls
Minimize splashing through concrete discharge flow rates. While cutting, crushing or grinding hardened concrete, minimize dust generation through suppression and ventilation methods.

#### 8.4 Personal protective equipment

**Eye/face protection**
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or 29 CFR 1926.103.

**Skin protection**
Waterproof gloves, rubber boots, and clothing sufficient to protect skin from contact with wet product should be worn. Clothing saturated from contact with wet product should be removed promptly to prevent continued contact with skin. After working with product, workers should clean their skin with soap and water. Clean clothing should be worn after showering.

**Respiratory protection**
Not required when working with wet product. Activities that generate dust from hardened dry product require the use of a NIOSH approved dust respirator for the exposure circumstances involved.

**Control of environmental exposure**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

##### 9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Appearance</td>
<td>Form: Semi-fluid, flowable paste  Color: Usually grey</td>
</tr>
<tr>
<td>b) Odor</td>
<td>odorless</td>
</tr>
<tr>
<td>c) pH</td>
<td>12 - 13</td>
</tr>
<tr>
<td>d) Melting/Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>e) Initial boiling point &amp; range</td>
<td>No data available</td>
</tr>
<tr>
<td>f) Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>g) Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>h) Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
</tbody>
</table>
i) Upper/Lower flammability or explosive limits
   No data available
j) Vapour pressure
   No data available
k) Vapour density
   No data available
l) Specific Gravity
   1.7 – 2.4
m) Water solubility
   Slight : 0.1% - 1%
n) Auto-ignition temp.
   No data available
o) Decomposition temp.
   No data available
p) Explosive properties
   No data available
q) Oxidizing properties
   This substance is classified as an oxidizer with the Category 3

9.2 Other safety information
   No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
   Not reactive under normal use.

10.2 Chemical stability
   Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
   No data available

10.4 Conditions to avoid
   Exposure to moisture.

10.5 Incompatible materials
   Unhardened concrete is alkaline and is incompatible with acids, ammonium salts and aluminum metals. Portland cement dissolves in hydrofluoric acid and produces silicon tetrafluoride gas. Portland cement reacts with water to form silicates which in turn react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride and oxygen difluoride.

10.6 Hazardous decomposition products
   No data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

   Acute toxicity
   Not classified

   Skin corrosion/irritation
   Causes severe skin burns

   Serious eye damage/eye irritation
   Causes serious eye damage

   Respiratory or skin sensitization
   No data available

   Germ cell mutagenicity
   No data available

   Carcinogenicity
   May cause cancer (inhalation)

   Reproductive toxicity
   No data available
Specific target organ toxicity - single exposure
May cause respiratory irritation

Specific target organ toxicity - repeated exposure
May cause damage to organs (lungs, respiratory system) through prolonged or repeated exposure (inhalation)

Aspiration hazard
No data available

12. ECOLOGICAL INFORMATION
12.1 Toxicity
No data available

12.2 Persistence
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS
Material can be retained until it hardens, and then disposed of as solid waste. Place contaminated materials in appropriate containers and dispose of in a manner consistent with applicable federal, state, and local regulations. Prevent from entering drainage, sewer systems, and unintended bodies of water. It is the responsibility of the user to determine, at the time of disposal, whether product meets criteria for hazardous waste. Product uses, transformations, mixture and processes, may render the resulting material hazardous.

14. TRANSPORT INFORMATION
DOT (US)
UN number: Not regulated
Proper shipping name: Not regulated
Packing Group: Not Regulated
Hazard Class: Not regulated

15. REGULATORY INFORMATION
TSCA Status
Not listed

§302 Components
Not listed

§304 Components
Not listed

§313 Components
Not listed

California Prop. 65
This product contains a chemical (crystalline silica, chromium, cobalt, nickel) known to the State of California to cause cancer.
16. OTHER INFORMATION

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