SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier
- Chemical Name: Mixture
- Trade Name(s): Concrete

Relevant identified uses of the substance or mixture and uses advised against
- Identified Use(s): Construction material
- Uses Advised Against: None.

Details of the supplier of the safety data sheet
- Company Identification: O&G Industries
  112 Wall Street
  Torrington, Connecticut 06790
- Telephone: (860) 489-9261

Emergency telephone number
- Emergency Phone No.: Not classified as dangerous for supply/use. Please contact the supplier above during normal business hours.

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture
- OSHA HCS (29 CFR 1910.1200) / GHS Classification: Eye Dam. 1; Skin Corr. 1C; Skin Sens. 1B

Label elements
- Hazard Symbol: DANGER

Signal Word(s)
- DANGER

Hazard Statement(s)
- Causes severe skin burns and eye damage.
- May cause an allergic skin reaction.

Precautionary Statement(s)
- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash hands and exposed skin after use.

Other hazards
- Mechanical disruption (e.g., milling, cutting, chipping) of cured concrete may release crystalline silica dust which: Causes damage to organs: Lungs (silicosis) and May cause cancer: Lungs. Avoid breathing dust. Wear suitable respiratory protective equipment if processing involves working in areas where dusts are likely to be evolved.

Additional Information
- None
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Composition/information on ingredients</th>
<th>% wt.</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aggregate (crushed stone, sand, gravel, slag)</td>
<td>&gt; 50</td>
<td>Various</td>
</tr>
<tr>
<td>Portland Cement</td>
<td>10 - 30</td>
<td>8052-42-4</td>
</tr>
<tr>
<td>Concrete additives</td>
<td>&lt; 1</td>
<td>Various</td>
</tr>
<tr>
<td>Water</td>
<td>10 - 20</td>
<td>7732-18-5</td>
</tr>
</tbody>
</table>

^Contains: <0.1% hexavalent chromium (CrVI) metals and salts.

Other Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below. Please see Section 8 of SDS for more details.

- Mechanical disruption (e.g., milling, cutting, chipping) of cured concrete may release crystalline silica dust.

Additional Information - None

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Inhalation Not normally required. Move person to fresh air. Apply artificial respiration if necessary. If symptoms persist, obtain medical attention.

Skin Contact Wash immediately with water. Table vinegar and additional water may help to neutralize and prevent skin burns. If irritation (redness, rash, blistering) develops, get medical attention.

Eye Contact Flush eyes with water for at least 15 minutes while holding eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

Ingestion Not normally required. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

Most important symptoms and effects, both acute and delayed May cause an allergic skin reaction. Contains: trace chromium metals and salts inherent in portland cement.

Indication of any immediate medical attention and special treatment needed None known

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

- Suitable Extinguishing Media Non-combustible. As appropriate for surrounding fire.
- Unsuitable Extinguishing Media None anticipated.

Special hazards arising from the substance or mixture None known
Advice for fire-fighters
A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

| Personal precautions, protective equipment and emergency procedures | Not normally required. |
| Environmental precautions | Not normally required. |
| Methods and material for containment and cleaning up | Not normally required. |
| Reference to other sections | None |
| Additional Information | None |

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Mechanical disruption (e.g., milling, cutting, chipping) of cured concrete may release crystalline silica dust. Avoid breathing dust. Wear suitable respiratory protective equipment if processing involves working in areas where dusts are likely to be evolved.

Conditions for safe storage, including any incompatibilities
- Storage temperature
  - Ambient temperatures.
- Incompatible materials
  - Strong oxidizing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits: Applicable only to heated product or milling, cutting, chipping of the product.

<table>
<thead>
<tr>
<th>SUBSTANCE.</th>
<th>CAS No.</th>
<th>((8\text{hr TW}A))</th>
<th>((\text{STEL}))</th>
<th>Note:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Silica (respirable particulate)</td>
<td>-----</td>
<td>0.050 mg/m(^3) (^{(R)})*</td>
<td>0.025 mg/m(^3) (^{^*})</td>
<td>-----</td>
</tr>
</tbody>
</table>

\(^{(R)}\)Respirable fraction; \(^*\)Suspected Human Carcinogen; * OSHA Carcinogen - employers must ensure compliance with 1926.1153 - Respirable Crystalline Silica, as applicable.; TWA = 8 hour time-weighted average; STEL = Short Term Exposure Limit.

Recommended monitoring method
NIOSH 7500 (Crystalline Silica)

Exposure controls
Not normally required.

Appropriate engineering controls
The following to be used as necessary: Safety Glasses

Personal protection equipment

Eye/face protection
The following to be used as necessary: Impervious gloves and boots.

Skin protection (Hand protection/ Other)
Respiratory protection

In case of heating the product or milling, cutting, chipping of the product, respiratory protection may be needed if occupational exposure limits are exceeded. Air-purifying respirator may be sufficient. Check with protective equipment manufacturer’s data.

Thermal hazards

Not normally required.

Environmental Exposure Controls

Not normally required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid / Solid Mixture</td>
</tr>
<tr>
<td>Color</td>
<td>Grey</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Odor Threshold (ppm)</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH (Value)</td>
<td>&gt; 11</td>
</tr>
<tr>
<td>Melting Point (°C) / Freezing Point (°C)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Boiling point/boiling range (°C):</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>Non-combustible.</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Explosive Limit Ranges</td>
<td>Non-combustible.</td>
</tr>
<tr>
<td>Vapor pressure (Pascal)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Density (g/ml)</td>
<td>~ 2.0 - 2.5</td>
</tr>
<tr>
<td>Solubility (Water)</td>
<td>Negligible</td>
</tr>
<tr>
<td>Solubility (Other)</td>
<td>Not known</td>
</tr>
<tr>
<td>Partition Coefficient (n-Octanol/water)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Auto Ignition Point (°C)</td>
<td>Non-combustible.</td>
</tr>
<tr>
<td>Decomposition Temperature (°C)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Kinematic Viscosity (cSt) @ 40°C</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not oxidizing.</td>
</tr>
<tr>
<td>Other information</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

Reactivity Stable under normal conditions.

Chemical stability Stable.

Possibility of hazardous reactions May react violently with: strong acids

Conditions to avoid Incompatible materials

Incompatible materials Strong acids

Hazardous decomposition product(s) None known

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

Cement:

- Acute toxicity: Not acutely toxic
- Irritation/Corrosivity: Causes severe skin burns and eye damage.
- Sensitization: May cause an allergic skin reaction.
Repeated dose toxicity Not to be expected.
Carcinogenicity Not to be expected at typical road paving temperatures.

<table>
<thead>
<tr>
<th></th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mutagenicity</td>
<td>No.</td>
<td>Yes.*</td>
<td>No.</td>
<td>No.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
</tbody>
</table>

Other information * Mechanical disruption (e.g., milling, cutting, chipping) of cured concrete may release crystalline silica dust.

**Crystalline Silica (quartz and cristobalite)**

Acute toxicity
- LD50 (rat): >5000 mg/kg bw
- LD50 (dermal): >2000 mg/kg bw
- LC50 (inhalation, fume): >94.4 mg/m³ - Causes damage to organs: Lungs (silicosis)

Irritation/Corrosivity Not to be expected
Sensitization Not to be expected

Repeated dose toxicity Causes damage to organs through prolonged or repeated exposure: Lungs (silicosis), immune system, kidneys.

Carcinogenicity May cause cancer. Lungs

<table>
<thead>
<tr>
<th></th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mutagenicity</td>
<td>No.</td>
<td>Yes.</td>
<td>A2</td>
<td>Yes.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
- Short term Not acutely toxic
- Long Term Not to be expected.

Persistence and degradability The product is not biodegradable.
Bioaccumulative potential The product has no potential for bioaccumulation.
Mobility in soil The product has low mobility in soil.
Results of PBT and vPvB assessment Not classified as PBT or vPvB.
Other adverse effects None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

Additional Information None known.

SECTION 14: TRANSPORT INFORMATION

Ground or Water Domestic Voyage (DOT): Not classified as dangerous for transport.

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:
TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

RCRA Hazardous Waste Number (40 CFR 261.33): None

US RCRA Hazard Class: Not applicable.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
<th>RQ (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
</tbody>
</table>

SARA 311/312 - Hazard Categories:

- [ ] Fire
- [ ] Sudden Release
- [ ] Reactivity
- [x] Immediate (acute)
- [ ] Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>-----</td>
<td>-----</td>
</tr>
</tbody>
</table>

SARA 302 - Extremely Hazardous Substances (40 CFR 355):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
<th>TPQ (pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
</tbody>
</table>

SECTION 16: OTHER INFORMATION

Additional Information

The following sections contain revisions or new statements: 1-16.

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. The manufacturer gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. The manufacturer accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.