SECTION 1: Identification

1.1. Identification
Product form: Mixture
Product name: EZ Cubed 60M
CAS-No.: Mixture
Product code: 0855
Other means of identification: Alumina-Silicate Cement Bonded Castable

1.2. Recommended use and restrictions on use
Use of the substance/mixture: Refractory
Recommended use: Industrial use

1.3. Supplier
Resco Products, Inc.
One Robinson Plaza, Suite 300
6600 Steubenville Pike
Pittsburgh, PA 15205 - United States
412-494-4491
SDS@RescoProducts.com - WWW.RescoProducts.com

1.4. Emergency telephone number
Emergency number: EMERGENCY ONLY (CHEMTREC) USA & Canada 1-800-424-9300
Outside USA & Canada +1 703-741-5970

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture
GHS US classification:
- Skin corrosion/irritation Category 2: H315 Causes skin irritation
- Serious eye damage/eye irritation Category 2B: H320 Causes eye irritation
- Carcinogenicity Category 1A: H350 May cause cancer (Inhalation)

Full text of H statements: see section 16

2.2. GHS Label elements, including precautionary statements
GHS US labeling:
- Hazard pictograms (GHS US):
- Signal word (GHS US): Danger
- Hazard statements (GHS US):
  - H315 - Causes skin irritation
  - H320 - Causes eye irritation
  - H350 - May cause cancer (Inhalation)
- Precautionary statements (GHS US):
  - P280 - Wear eye protection, Dust respirator, protective gloves.
  - P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P332+P313 - If skin irritation occurs: Get medical advice/attention.
  - P337+P313 - If eye irritation persists: Get medical advice/attention.
  - P260 - Do not breathe dust.

2.3. Other hazards which do not result in classification
No additional information available

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium oxide, non-fibrous</td>
<td>(CAS-No.) 1344-28-1</td>
<td>10 – 20</td>
<td>Not classified</td>
</tr>
<tr>
<td>Calcium Aluminate Cement</td>
<td>(CAS-No.) 65997-16-2</td>
<td>5 – 10</td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2B, H320</td>
</tr>
<tr>
<td>cristobalite</td>
<td>(CAS-No.) 14464-46-1</td>
<td>0.1 – 0.5</td>
<td>Carc. 1A, H350</td>
</tr>
<tr>
<td>quartz</td>
<td>(CAS-No.) 14808-60-7</td>
<td>0.1 – 0.5</td>
<td>Carc. 1A, H350</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures
- First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation: Allow affected person to breathe fresh air. Allow the victim to rest.
4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms
- Symptoms/effects after inhalation: May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation.
- Symptoms/effects after skin contact: Causes skin irritation.
- Symptoms/effects after eye contact: Causes eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media: In case of fire, all extinguishing media allowed.

5.2. Specific hazards arising from the chemical

Fire hazard: Not flammable.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions: Fight fire with normal precautions from a reasonable distance.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Do not breathe dust.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: On land, sweep or shovel into suitable containers. Minimize generation of dust.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Do not handle until all safety precautions have been read and understood. Avoid raising dust. Avoid contact with skin and eyes. Do not breathe dust.

Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store this product in a dry location where it can be protected from the elements.
Incompatible products: Strong bases. Strong acids.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>USA - ACGIH - Occupational Exposure Limits</th>
<th>USA - OSHA - Occupational Exposure Limits</th>
<th>OSHA PEL (TWA) (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EZ Cubed 60M (Mixture)</td>
<td>No additional information available</td>
<td>No additional information available</td>
<td></td>
</tr>
<tr>
<td>Calcium Aluminate Cement (65997-16-2)</td>
<td>No additional information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>cristobalite (14464-46-1)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA - ACGIH - Occupational Exposure Limits</td>
<td>0.025 mg/m³ respirable dust</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH TWA (mg/m³)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA - OSHA - Occupational Exposure Limits</td>
<td>0.05 mg/m³ respirable dust</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>aluminium oxide, non-fibrous (1344-28-1)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA - ACGIH - Occupational Exposure Limits</td>
<td>1 mg/m³ respirable dust</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH TWA (mg/m³)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>quartz (14808-60-7)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA - ACGIH - Occupational Exposure Limits</td>
<td>0.025 mg/m³ (Silica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
USA - OSHA - Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Local name</th>
<th>Silica, crystalline quartz, respirable dust</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>0.05 mg/m³ respirable dust</td>
</tr>
<tr>
<td>Remark (OSHA)</td>
<td>(3) See Table Z-3.</td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls
Appropriate engineering controls: Provide adequate ventilation to minimize dust concentrations.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:
Avoid all unnecessary exposure.

- **Hand protection:**
  Wear protective gloves.

- **Eye protection:**
  Chemical goggles or safety glasses

- **Skin and body protection:**
  Wear suitable protective clothing

- **Respiratory protection:**
  Wear appropriate mask

Other information:
Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- **Physical state:** Solid
- **Appearance:** Granular mixture.
- **Color:** Light gray
- **Odor:** Earthy
- **Odor threshold:** Not applicable
- **pH:** No data available
- **Melting point:** > 2000 °F
- **Freezing point:** Not applicable
- **Boiling point:** Not applicable
- **Critical temperature:** Not applicable
- **Flash point:** Not applicable
- **Relative evaporation rate (butyl acetate=1):** Not applicable
- **Relative evaporation rate (ether=1):** Not applicable
- **Flammability (solid, gas):** Non flammable.
- **Vapor pressure:** No data available
- **Vapor pressure at 50 °C:** Not Applicable
- **Relative vapor density at 20 °C:** No data available
- **Relative density:** No data available
- **Solubility:** Slightly soluble.
- **Partition coefficient n-octanol/water (Log Pow):** No data available
- **Auto-ignition temperature:** Not applicable
- **Decomposition temperature:** No data available
- **Viscosity, kinematic:** No data available
- **Viscosity, dynamic:** No data available
- **Explosion limits:** Not applicable
- **Explosive properties:** No data available
- **Oxidizing properties:** No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
Hydraulic setting.

10.2. Chemical stability
Stable under normal conditions of use.

10.3. Possibility of hazardous reactions
Not established.

10.4. Conditions to avoid
Avoid dust formation.
**10.5. Incompatible materials**
Strong acids. Strong bases.

**10.6. Hazardous decomposition products**
No additional information available

**SECTION 11: Toxicological information**

<table>
<thead>
<tr>
<th>11.1. Information on toxicological effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
</tr>
</tbody>
</table>

**aluminium oxide, non-fibrous (1344-28-1)**

- **LD50 oral rat**: > 15900 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)
- **LC50 Inhalation - Rat**: 7.6 mg/l air (Equivalent or similar to OECD 403, 1 h, Rat, Male, Experimental value, Inhalation (aerosol))

**Skin corrosion/irritation**: Causes skin irritation.

**Serious eye damage/irritation**: Causes eye irritation.

**Respiratory or skin sensitization**: Not classified

**Germ cell mutagenicity**: Not classified

**Carcinogenicity**: May cause cancer (Inhalation).

**quartz (14808-60-7)**

<table>
<thead>
<tr>
<th>IARC group</th>
<th>1 - Carcinogenic to humans</th>
</tr>
</thead>
</table>

**12.1. Toxicity**
No additional information available

**12.2. Persistence and degradability**

**EZ Cubed 60M (Mixture)**

<table>
<thead>
<tr>
<th>Persistence and degradability</th>
<th>Not established.</th>
</tr>
</thead>
</table>

**cristobalite (14464-46-1)**

<table>
<thead>
<tr>
<th>Persistence and degradability</th>
<th>Mineral. Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical oxygen demand (COD)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>ThOD</td>
<td>Not applicable</td>
</tr>
<tr>
<td>BOD (% of ThOD)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**aluminium oxide, non-fibrous (1344-28-1)**

<table>
<thead>
<tr>
<th>Persistence and degradability</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical oxygen demand (COD)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>ThOD</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

**quartz (14808-60-7)**

<table>
<thead>
<tr>
<th>Persistence and degradability</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical oxygen demand (BOD)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Chemical oxygen demand (COD)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>ThOD</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

**12.3. Bioaccumulative potential**

**EZ Cubed 60M (Mixture)**

<table>
<thead>
<tr>
<th>Bioaccumulative potential</th>
<th>Not established.</th>
</tr>
</thead>
</table>

**cristobalite (14464-46-1)**

<table>
<thead>
<tr>
<th>Bioaccumulative potential</th>
<th>No data available.</th>
</tr>
</thead>
</table>

**aluminium oxide, non-fibrous (1344-28-1)**

| Bioaccumulative potential | No data available. |
 quarts (14808-60-7)  
Bioaccumulative potential  
No data available.

12.4. Mobility in soil  
cristobalite (14464-46-1)  
Ecology - soil  
No data available.

aluminium oxide, non-fibrous (1344-28-1)  
Ecology - soil  
No data available.

12.5. Other adverse effects  
Effect on the global warming  
None known

SECTION 13: Disposal considerations

13.1. Disposal methods  
Product/Packaging disposal recommendations  
Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials  
Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)  
In accordance with DOT  
Not regulated

Transportation of Dangerous Goods  
Not regulated

Transport by sea  
Not regulated

Air transport  
Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations  
EZ Cubed 60M (Mixture)  
All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

aluminium oxide, non-fibrous (1344-28-1)  
Not subject to reporting requirements of the United States SARA Section 313

Note  
Note: The section 313 chemical list contains "CAS # 1344-28-1 Aluminum Oxide (Fibrous forms)"; the Aluminum oxide contained in this product is non-fibrous, and thus is not a section 313 material. Only manufacturing, processing, or otherwise use of aluminium oxide in the fibrous form triggers reporting.

15.2. International regulations  
CANADA  
Calcium Aluminate Cement (65997-16-2)  
Listed on the Canadian DSL (Domestic Substances List)

cristobalite (14464-46-1)  
Listed on the Canadian DSL (Domestic Substances List)

aluminium oxide, non-fibrous (1344-28-1)  
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations  
No additional information available

National regulations  
quartz (14808-60-7)  
Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations  
EZ Cubed 60M (Mixture)  
U.S. - California - Proposition 65 - Other information  
This product contains crystalline silica, a chemical known to the state of California to cause cancer. For more information go to WWW.P65Warnings.ca.gov

cristobalite (14464-46-1)  
U.S. - California - Proposition 65 - Developmental Toxicity  
U.S. - California - Proposition 65 - Reproductive Toxicity - Female  
U.S. - California - Proposition 65 - Reproductive Toxicity - Male  
No significant risk level (NSRL)  
Maximum allowable dose level (MADL)

Yes  
No  
No  
No
## Section 16: Other information

### Revision date:
09/29/2020

Other information: Report language name. English. In the event of any conflict between English and other language versions, the English version shall prevail.

Full text of H-phrases:

<table>
<thead>
<tr>
<th>H-phrase</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H320</td>
<td>Causes eye irritation</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
</tbody>
</table>

---

SDS US (GHS HazCom 2012)

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