SECTION 1: Identification

1.1. Identification
- Product form: Mixture
- Product name: EZ Cubed 3000
- CAS-Number: 1668
- 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
- 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)

2.2. GHS Label elements, including precautionary statements
- Signal word (GHS US): Danger
- Hazard pictograms (GHS US):
- 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

2.4. Unknown acute toxicity (GHS US)
- 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>cristobalite</td>
<td>(CAS-No.) 14464-46-1</td>
<td>10 – 20</td>
<td>Carc. 1A, H350</td>
</tr>
<tr>
<td>aluminum oxide, non-fibrous</td>
<td>(CAS-No.) 1344-28-1</td>
<td>5 – 10</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 Irr. 2, H315, Eye Irr. 2B, H320</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>

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.
First-aid measures after skin contact: Wash with plenty of soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

4.2. Most important symptoms and effects (acute and delayed)
Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met.
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

**EZ Cubed 3000 (Mixture)**
No additional information available

**Calcium Aluminate Cement (65997-16-2)**
No additional information available

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

**USA - ACGIH - Occupational Exposure Limits**
ACGIH TWA (mg/m³): 0.025 mg/m³ respirable dust

**USA - OSHA - Occupational Exposure Limits**
OSHA PEL (TWA) (mg/m³): 0.05 mg/m³ respirable dust

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

**USA - ACGIH - Occupational Exposure Limits**
ACGIH TWA (mg/m³): 1 mg/m³ respirable dust

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

**USA - ACGIH - Occupational Exposure Limits**
ACGIH TWA (mg/m³): 0.025 mg/m³ (Silica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)
EZ Cubed 3000
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>USA - OSHA - Occupational Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local name: Silica, crystalline quartz, respirable dust</td>
</tr>
<tr>
<td>OSHA PEL (TWA) (mg/m³): 0.05 mg/m³ respirable dust</td>
</tr>
<tr>
<td>Remark (OSHA): (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 protective 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: 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: 2 – 3
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

##### 11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Acute toxicity (oral)</th>
<th>Not classified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>LD50 oral rat</th>
<th>&gt; 15900 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Inhalation - Rat</td>
<td>7.6 mg/l air (Equivalent or similar to OECD 403, 1 h, Rat, Male, Experimental value, Inhalation (aerosol))</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Skin corrosion/irritation</th>
<th>Causes skin irritation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>May cause cancer (Inhalation).</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>IARC group</th>
<th>1 - Carcinogenic to humans</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity – single exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity – repeated exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Potential Adverse human health effects and symptoms</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>Symptoms/effects after inhalation</td>
<td>May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation.</td>
</tr>
<tr>
<td>Symptoms/effects after skin contact</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Symptoms/effects after eye contact</td>
<td>Causes eye irritation.</td>
</tr>
</tbody>
</table>

#### SECTION 12: Ecological information

##### 12.1. Toxicity
No additional information available

##### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>EZ Cubed 3000 (Mixture)</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>Biochemical 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

<table>
<thead>
<tr>
<th>EZ Cubed 3000 (Mixture)</th>
<th>Not established.</th>
</tr>
</thead>
</table>

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

| Bioaccumulative potential | No data available. |
12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Substance</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium oxide, non-fibrous (1344-28-1)</td>
<td>No data available.</td>
</tr>
<tr>
<td>quartz (14808-60-7)</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

12.5. Other adverse effects

<table>
<thead>
<tr>
<th>Substance</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>cristobalite (14464-46-1)</td>
<td>No data available.</td>
</tr>
<tr>
<td>aluminium oxide, non-fibrous (1344-28-1)</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

13. Disposal considerations

**SECTION 13: Disposal considerations**

### 13.1. Disposal methods

- **Product/Packaging disposal recommendations**: Dispose in a safe manner in accordance with local/national regulations.

### Ecology - soil

- 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

**Air transport**

- Not regulated

**SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

**EZ Cubed 3000 (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**: 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 aluminum 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**
### EZ Cubed 3000

**Safety Data Sheet**

**15.3. US State regulations**

<table>
<thead>
<tr>
<th>Component</th>
<th>State or local regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>cristobalite</td>
<td>U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
<tr>
<td>aluminium oxide, non-fibrous</td>
<td>U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
<tr>
<td>Quartz</td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
</tbody>
</table>

**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:

- **H315**: Causes skin irritation
- **H320**: Causes eye irritation
- **H350**: May cause cancer

**SDS US (GHS HazCom 2012)**

This information and recommendations set forth herein are taken from sources believed to be accurate as of the date herein, however, Resco Products, Inc. makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.