### SECTION 1: Identification

#### 1.1. Identification
- **Product form**: Mixture
- **Product name**: EZ Cubed 60M XT
- **CAS-No.**: Mixture
- **Product code**: 1067
- **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
- **Supplier**: Resco Products, Inc.
  - One Robinson Plaza, Suite 300
  - 6600 Steubenville Pike
  - Pittsburgh, PA 15205 - United States
  - Phone: 412-494-4491
- **Email**: 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**
  - **Signal word (GHS US)**: Danger
  - **Hazard statements (GHS US)**: H315 - Causes skin irritation
  - **Hazard statements (GHS US)**: H320 - Causes eye irritation
  - **Hazard statements (GHS US)**: H350 - May cause cancer (Inhalation)
  - **Precautionary statements (GHS US)**: P280 - Wear eye protection, Dust respirator, protective gloves.
  - **Precautionary statements (GHS US)**: P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - **Precautionary statements (GHS US)**: P332+P313 - If skin irritation occurs: Get medical advice/attention.
  - **Precautionary statements (GHS US)**: P337+P313 - If eye irritation persists: Get medical advice/attention.
  - **Precautionary statements (GHS US)**: 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>aluminum 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 Irr. 2, H315</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.
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.
First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH TWA (mg/m³)</th>
<th>OSHA PEL (TWA) (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EZ Cubed 60M XT (Mixture)</td>
<td>No additional information available</td>
<td>No additional information available</td>
</tr>
<tr>
<td>Calcium Aluminate Cement (65997-16-2)</td>
<td>No additional information available</td>
<td>No additional information available</td>
</tr>
<tr>
<td>cristobalite (14464-46-1)</td>
<td>USA - ACGIH - Occupational Exposure Limits</td>
<td>USA - OSHA - Occupational Exposure Limits</td>
</tr>
<tr>
<td>aluminium oxide, non-fibrous (1344-28-1)</td>
<td>ACGIH TWA (mg/m³) 0.025 mg/m³ respirable dust</td>
<td>OSHA PEL (TWA) (mg/m³) 0.05 mg/m³ respirable dust</td>
</tr>
<tr>
<td>USA - ACGIH - Occupational Exposure Limits</td>
<td>USA - OSHA - Occupational Exposure Limits</td>
<td>OSHA PEL (TWA) (mg/m³) 0.05 mg/m³ respirable dust</td>
</tr>
<tr>
<td>quartz (14808-60-7)</td>
<td>USA - ACGIH - Occupational Exposure Limits</td>
<td>USA - OSHA - Occupational Exposure Limits</td>
</tr>
<tr>
<td>ACGIH TWA (mg/m³)</td>
<td>1 mg/m³ respirable dust</td>
<td>USA - ACGIH - Occupational Exposure Limits</td>
</tr>
<tr>
<td>USA - ACGIH - Occupational Exposure Limits</td>
<td>USA - OSHA - Occupational Exposure Limits</td>
<td>USA - OSHA - Occupational Exposure Limits</td>
</tr>
<tr>
<td>ACGIH TWA (mg/m³)</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>
</tr>
<tr>
<td>USA - ACGIH - Occupational Exposure Limits</td>
<td>USA - OSHA - Occupational Exposure Limits</td>
<td>USA - OSHA - Occupational Exposure Limits</td>
</tr>
<tr>
<td>ACGIH TWA (mg/m³)</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>
</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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Granular mixture</td>
</tr>
<tr>
<td>Color</td>
<td>Gray</td>
</tr>
<tr>
<td>Odor</td>
<td>earthy</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>&gt; 3000 °F</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Critical temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative evaporation rate (ether=1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Non flammable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure at 50 °C</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>≈ 2.4</td>
</tr>
<tr>
<td>Solubility</td>
<td>Slightly soluble</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water (Log Pow)</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### 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></th>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Not classified</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not classified</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Not classified</td>
<td></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)**

- IARC group: 1 - Carcinogenic to humans
- Reproductive toxicity: Not classified
- Specific target organ toxicity – single exposure: Not classified
- Specific target organ toxicity – repeated exposure: Not classified
- Aspiration hazard: Not classified
- Viscosity, kinematic: No data available
- 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.

### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

**EZ Cubed 60M XT (Mixture)**

Persistence and degradability: Not established.

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

- Persistence and degradability: Mineral. Not applicable.
- Chemical oxygen demand (COD): Not applicable
- ThOD: Not applicable
- BOD (% of ThOD): Not applicable

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

- Persistence and degradability: Not applicable.
- Chemical oxygen demand (COD): Not applicable
- ThOD: Not applicable

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

- Persistence and degradability: Not applicable.
- Biochemical oxygen demand (BOD): Not applicable
- Chemical oxygen demand (COD): Not applicable
- ThOD: Not applicable

#### 12.3. Bioaccumulative potential

**EZ Cubed 60M XT (Mixture)**

Bioaccumulative potential: Not established.

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

Bioaccumulative potential: No data available.
aluminium oxide, non-fibrous (1344-28-1)
Bioaccumulative potential: No data available.

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

15.3. US State regulations
EZ Cubed 60M XT (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
SECTION 16: Other information

Full text of H-phrases:

<table>
<thead>
<tr>
<th>H-number</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>

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