

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixtures  
 Product name : EZ Cubed 3200 Fine  
 CAS-No. : Mixture  
 Product code : 1070  
 Other means of identification : Alumina-Silicate Cement Bonded Castable

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Refractory

#### 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](mailto:SDS@RescoProducts.com) - [WWW.RescoProducts.com](http://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<br>Category 2          | H315 | Causes skin irritation        |
| Serious eye damage/eye<br>irritation Category 2B | H320 | Causes eye irritation         |
| Carcinogenicity Category<br>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) :

Hazard statements (GHS-US) :

: Danger  
 : 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

| Name                         | Product identifier   | %         | GHS-US classification                      |
|------------------------------|----------------------|-----------|--|
| aluminium oxide, non-fibrous | (CAS-No.) 1344-28-1  | 20 - 50   | Not classified                             |
| Calcium Aluminate Cement     | (CAS-No.) 65997-16-2 | 5 - 10    | Skin Irrit. 2, H315<br>Eye Irrit. 2B, H320 |
| crystalobalite               | (CAS-No.) 14464-46-1 | 0.1 - 0.5 | Carc. 1A, H350                             |

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 victim to breathe fresh air. Allow the victim to rest.

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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)

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 : No unsuitable extinguishing media known.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Not flammable.  
Reactivity : Hydraulic setting.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.  
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

| Calcium Aluminate Cement (65997-16-2)    |                                     |   |
|--|-------------------------------------|---|
| Not applicable                           |                                     |   |
| cristobalite (14464-46-1)                |                                     |   |
| ACGIH                                    | ACGIH TWA (mg/m <sup>3</sup> )      | 0.025 mg/m <sup>3</sup> respirable dust   |
| OSHA                                     | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 0.05 mg/m <sup>3</sup> respirable dust  |
| aluminium oxide, non-fibrous (1344-28-1) |                                     |   |
| ACGIH                                    | ACGIH TWA (mg/m <sup>3</sup> )      | 1 mg/m <sup>3</sup> (Aluminium, insoluble compounds; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction) |

### 8.2. Appropriate engineering controls

No additional information available

### 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:**

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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       |
| Odor threshold                              | : Not applicable    |
| pH  | : No data available |
| Melting point                               | : > 2000 °F         |
| Freezing point                              | : Not applicable    |
| Boiling point                               | : Not applicable    |
| Critical temperature                        | : Not applicable    |
| Critical pressure                           | : 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                              | : Not Applicable    |
| Vapor pressure at 50 °C                     | : Not Applicable    |
| Relative vapor density at 20 °C             | : No data available |
| Relative density                            | : No data available |
| Solubility                                  | : Slightly soluble. |
| Log Pow                                     | : No data available |
| Auto-ignition temperature                   | : Not applicable    |
| Decomposition temperature                   | : No data available |
| Viscosity                                   | : Not Applicable    |
| Viscosity, kinematic                        | : Not Applicable    |
| Viscosity, dynamic                          | : Not Applicable    |
| 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

Not established.

### 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

Acute toxicity : Not classified

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

|                                   |  |
|-----------------------------------|--|
| LD50 oral rat                     | > 15900 mg/kg body weight (Rat; Equivalent or similar to OECD 401; Experimental value) |
| 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).   |

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| <b>crystalite (14464-46-1)</b>                      |  |
|---|--|
| 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   |
| 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

| <b>aluminium oxide, non-fibrous (1344-28-1)</b> |  |
|---|--|
| LC50 fish 1                                     | > 100 mg/l (NOEC; OECD 203: Fish, Acute Toxicity Test; 96 h; Salmo trutta; Flow-through system; Fresh water; Experimental value) |
| EC50 Daphnia 1                                  | > 100 mg/l (NOEC; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)  |
| Threshold limit algae 1                         | > 100 mg/l (NOEC; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum)                                       |

#### 12.2. Persistence and degradability

| <b>EZ Cubed 3200 Fine (Mixture)</b> |                  |
|-------------------------------------|------------------|
| Persistence and degradability       | Not established. |

| <b>crystalite (14464-46-1)</b>  |                                   |
|---------------------------------|-----------------------------------|
| Persistence and degradability   | Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable                    |
| Chemical oxygen demand (COD)    | Not applicable                    |
| ThOD                            | Not applicable                    |

| <b>aluminium oxide, non-fibrous (1344-28-1)</b> |                                   |
|---|-----------------------------------|
| Persistence and degradability                   | Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD)                 | Not applicable                    |
| Chemical oxygen demand (COD)                    | Not applicable                    |
| ThOD  | Not applicable                    |

#### 12.3. Bioaccumulative potential

| <b>EZ Cubed 3200 Fine (Mixture)</b> |                  |
|-------------------------------------|------------------|
| Bioaccumulative potential           | Not established. |

| <b>crystalite (14464-46-1)</b> |                                    |
|--------------------------------|------------------------------------|
| Bioaccumulative potential      | No bioaccumulation data available. |

| <b>aluminium oxide, non-fibrous (1344-28-1)</b> |                                    |
|---|------------------------------------|
| Bioaccumulative potential                       | No bioaccumulation data available. |

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

|                              |   |
|------------------------------|---|
| Effect on the global warming | : No known effects from this product.<br>None known |
| GWPmix comment               | : No known effects from this product.               |

### 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 applicable

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### Air transport

Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

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)

Subject to reporting requirements of United States SARA Section 313

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

#### EZ Cubed 3200 Fine (Mixture)

U.S. - California - Proposition 65 - Other information

This product contains crystalline silica, a chemical known to the state of California to cause cancer.

#### crystalite (14464-46-1)

| U.S. - California - Proposition 65 - Carcinogens List | 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) |
|---|---|---|---|----------------------------------|
| Yes   | No  | No  | No  |                                  |

#### crystalite (14464-46-1)

U.S. - New Jersey - Right to Know Hazardous Substance List

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

U.S. - New Jersey - Right to Know Hazardous Substance List

## SECTION 16: Other information

Revision date : 07/12/2017

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)

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