

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
 Product name : Vibrocast 75  
 CAS-No. : Mixture  
 Product code : 0434  
 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 H315 Causes skin irritation  
 Category 2  
 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

#### 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  | 50 - 75   | Not classified                             |
| Calcium Aluminate Cement     | (CAS-No.) 65997-16-2 | 5 - 10    | Skin Irrit. 2, H315<br>Eye Irrit. 2B, H320 |
| quartz                       | (CAS-No.) 14808-60-7 | 1 - 5     | Carc. 1A, H350                             |
| cristobalite                 | (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).

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- First-aid measures after inhalation : Allow victim 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 : 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> (Silica-Crystalline Cristobalite; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction) |
| 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) |                                     |  |
| Not applicable                           |                                     |  |
| quartz (14808-60-7)                      |                                     |  |
| ACGIH                                    | ACGIH TWA (mg/m <sup>3</sup> )      | 0.025 mg/m <sup>3</sup> (Silica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)       |
| OSHA                                     | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 0.05 mg/m <sup>3</sup> Respirable fraction   |
| OSHA                                     | Remark (OSHA)                       | (3) See Table Z-3.   |

### 8.2. Appropriate engineering controls

No additional information available

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### 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                                       | : Gray              |
| Odor  | : Earthy Odor       |
| Odor threshold                              | : Not applicable    |
| pH  | : No data available |
| Melting point                               | : > 3000 °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                            | : ≈ 2.6             |
| 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

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| <b>aluminium oxide, non-fibrous (1344-28-1)</b> |   |
|---|---|
| LD50 oral rat                                   | > 15900 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male/female, Experimental value) |
| LC50 inhalation rat (mg/l)                      | 7.6 mg/l air (Equivalent or similar to OECD 403, 1 h, Rat, Male, 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).

| <b>crystalite (14464-46-1)</b> |                            |
|--------------------------------|----------------------------|
| IARC group                     | 1 - Carcinogenic to humans |

| <b>quartz (14808-60-7)</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

No additional information available

#### 12.2. Persistence and degradability

| <b>Vibrocast 75 (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 (inorganic)        |
| Chemical oxygen demand (COD)                    | Not applicable (inorganic)        |
| ThOD  | Not applicable (inorganic)        |

| <b>quartz (14808-60-7)</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>Vibrocast 75 (Mixture)</b> |                  |
|-------------------------------|------------------|
| Bioaccumulative potential     | Not established. |

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

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

| <b>quartz (14808-60-7)</b> |                                    |
|----------------------------|------------------------------------|
| Bioaccumulative potential  | No bioaccumulation data available. |

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### 12.4. Mobility in soil

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

Ecology - soil No (test) data on mobility of the substance 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

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

#### quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

### 15.3. US State regulations

#### Vibrocast 75 (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) | Maximum allowable dose level (MADL) |
|---|---|---|---|----------------------------------|-------------------------------------|
| Yes   | No  | No  | No  |                                  |                                     |

#### quartz (14808-60-7)

| 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) | Maximum allowable dose level (MADL) |
|---|---|---|---|----------------------------------|-------------------------------------|
| 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

#### quartz (14808-60-7)

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

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### SECTION 16: Other information

Revision date : 11/29/2018  
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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