



# Rescocast 17EMC

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Rescocast 17EMC  
CAS-No. : Mixture  
Product code : 0303  
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](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 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) :

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                      |
|--------------------------|----------------------|---------|--|
| Calcium Aluminate Cement | (CAS-No.) 65997-16-2 | 20 – 50 | Skin Irrit. 2, H315<br>Eye Irrit. 2B, H320 |
| crystalite               | (CAS-No.) 14464-46-1 | 10 – 20 | Carc. 1A, H350                             |
| quartz                   | (CAS-No.) 14808-60-7 | 1 – 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 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.

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- 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 : 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

|   |  |
|---|--|
| <b>Rescocast 17EMC (Mixture)</b>                  |  |
| No additional information available               |  |
| <b>Calcium Aluminate Cement (65997-16-2)</b>      |  |
| No additional information available               |  |
| <b>crystalite (14464-46-1)</b>                    |  |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |  |
| ACGIH TWA (mg/m <sup>3</sup> )                    | 0.025 mg/m <sup>3</sup> respirable dust  |
| <b>USA - OSHA - Occupational Exposure Limits</b>  |  |
| OSHA PEL (TWA) (mg/m <sup>3</sup> )               | 0.05 mg/m <sup>3</sup> respirable dust   |
| <b>quartz (14808-60-7)</b>                        |  |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |  |
| 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) |
| <b>USA - OSHA - Occupational Exposure Limits</b>  |  |
| Local name  | Silica, crystalline quartz, respirable dust  |
| OSHA PEL (TWA) (mg/m <sup>3</sup> )               | 0.05 mg/m <sup>3</sup> respirable dust   |
| Remark (OSHA)                                     | (3) See Table Z-3.   |

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### 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   | : Gray                        |
| Odor  | : earthy                      |
| Odor threshold                                  | : Not applicable              |
| pH  | : No data available           |
| Melting point                                   | : > 2500 °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                                | : ≈ 1.7                       |
| Solubility                                      | : Slightly soluble. in water. |
| 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                              | : 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

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

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Acute toxicity (oral)             | : Not classified                 |
| Acute toxicity (dermal)           | : Not classified                 |
| Acute toxicity (inhalation)       | : Not classified                 |
| 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   |
| STOT-single exposure                                | : Not classified   |
| STOT-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

##### Rescocast 17EMC (Mixture)

|                               |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

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

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

##### Rescocast 17EMC (Mixture)

|                           |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

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

|                           |                    |
|---------------------------|--------------------|
| Bioaccumulative potential | No data available. |
|---------------------------|--------------------|

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

|                           |                    |
|---------------------------|--------------------|
| Bioaccumulative potential | No data available. |
|---------------------------|--------------------|

#### 12.4. Mobility in soil

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

|                |                    |
|----------------|--------------------|
| Ecology - soil | No data available. |
|----------------|--------------------|

#### 12.5. Other adverse effects

|                              |                           |
|------------------------------|---------------------------|
| Effect on the global warming | None known                |
| Other information            | : No other effects 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.                                       |

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### 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

##### Rescocast 17EMC (Mixture)

All components of this product are listed as Active, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

#### 15.2. International regulations

##### CANADA

##### Calcium Aluminate Cement (65997-16-2)

Listed on the Canadian DSL (Domestic Substances List)

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

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

##### Rescocast 17EMC (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](http://WWW.P65Warnings.ca.gov)

##### 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  |                                  |                                     |

##### Component

##### State or local regulations

Cristobalite (14464-46-1)

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

Quartz (14808-60-7)

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

### SECTION 16: Other information

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Revision date : 07/28/2021

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.

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EN (English US)

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