

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Kricon 32-70  
CAS-No. : Mixture  
Product code : 0954  
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) : 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)

No additional information available

### 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  | 10 – 20   | Not classified                             |
| Calcium Aluminate Cement     | CAS-No.: 65997-16-2 | 1 – 5     | 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

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### 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 | : Gently wash with plenty of soap and water.   |
| 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. Avoid contact with skin and eyes. |
|----------------------|--|

##### 6.1.2. For emergency responders

|                      |  |
|----------------------|--|
| Protective equipment | : Equip cleanup crew with proper protection.                         |
| Emergency procedures | : Ventilate area. On land, sweep or shovel into suitable containers. |

#### 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

##### Kricon 32-70 (Mixture)

No additional information available

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

No additional information available

### crystalite (14464-46-1)

#### USA - ACGIH - Occupational Exposure Limits

|               |   |
|---------------|---|
| ACGIH OEL TWA | 0.025 mg/m <sup>3</sup> respirable dust |
|---------------|---|

#### USA - OSHA - Occupational Exposure Limits

|                    |  |
|--------------------|--|
| OSHA PEL (TWA) [1] | 0.05 mg/m <sup>3</sup> respirable dust |
|--------------------|--|

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

#### USA - ACGIH - Occupational Exposure Limits

|               |                                     |
|---------------|-------------------------------------|
| ACGIH OEL TWA | 1 mg/m <sup>3</sup> respirable dust |
|---------------|-------------------------------------|

### 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                                  | : No data available |
| pH  | : No data available |
| Melting point                                   | : > 2500 °F         |
| Freezing point                                  | : No data available |
| Boiling point                                   | : No data available |
| Flash point                                     | : No data available |
| Relative evaporation rate (butyl acetate=1)     | : No data available |
| Flammability (solid, gas)                       | : Not flammable.    |
| Vapor pressure                                  | : No data available |
| Relative vapor density at 20°C                  | : ≈ 2.7             |
| Relative density                                | : No data available |
| Solubility                                      | : Slightly soluble. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature                       | : No data available |
| Decomposition temperature                       | : No data available |
| Viscosity, kinematic                            | : Not Applicable    |
| Viscosity, dynamic                              | : No data available |
| Explosion limits                                | : No data available |
| Explosive properties                            | : No data available |
| Oxidizing properties                            | : No data available |

### 9.2. Other information

No additional information available

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### 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

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### 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, 14 day(s))           |
| LC50 Inhalation - Rat | > 2.3 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s)) |

Skin corrosion/irritation : Causes skin irritation.

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

pH ≤ 13

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

pH 6 – 7

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

pH 9 – 10.5 (aqueous suspension, 33 %)

Serious eye damage/irritation : Causes eye irritation.

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

pH ≤ 13

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

pH 6 – 7

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

pH 9 – 10.5 (aqueous suspension, 33 %)

Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : May cause cancer (Inhalation).  
Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified  
Viscosity, kinematic : Not Applicable

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

Viscosity, kinematic : Not applicable (solid)

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|   |  |
|---|--|
| 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

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

|                      |  |
|----------------------|--|
| LC50 - Fish [1]      | > 100 mg/l (96 h, Salmo trutta, Literature study)  |
| EC50 - Crustacea [1] | > 100 mg/l (48 h, Daphnia magna, Literature study) |

#### 12.2. Persistence and degradability

##### Kricon 32-70 (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           |

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

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

#### 12.3. Bioaccumulative potential

##### Kricon 32-70 (Mixture)

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

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

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

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

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

#### 12.4. Mobility in soil

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

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

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

|                 |                                     |
|-----------------|-------------------------------------|
| Surface tension | No data available in the literature |
| 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

In accordance with DOT / TDG / IMDG / IATA

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### 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 present and listed as Active 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 | 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)

### crystalite (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

No additional information available

### 15.3. US State regulations

#### Kricon 32-70 (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 <a href="http://WWW.P65Warnings.ca.gov">WWW.P65Warnings.ca.gov</a> |
|--|--|

#### 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  |                                  |                                     |

#### Component

Crystalite (14464-46-1)

#### State or local regulations

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

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

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

## SECTION 16: Other information

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

Revision date : 4/21/2023

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       |

Safety Data Sheet (SDS), USA

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.