

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
 Product name : Adacor 70 Dip & Trowel  
 CAS-No. : Mixture  
 Product code : 0104, 0105  
 Other means of identification : Alumina-Silicate Wet Air Set Mortar-Slurry

#### 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 (After drying or heating, 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  
 H319 - Causes serious eye irritation  
 H350 - May cause cancer (After drying or heating, Inhalation)  
 Precautionary statements (GHS US) : P202 - Do not handle until all safety precautions have been read and understood.  
 P280 - Wear eye protection, protective gloves, protective clothing.  
 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.

#### 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                             |
| sodium silicate, alkaline 1.6/2.6, 35%≤concs≤55%, aqueous solutions | (CAS-No.) 1344-09-8  | 20 – 50   | 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 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. Take off contaminated clothing and wash it 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 : After drying or heating. 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 serious 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.

#### 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 : If spilled, may cause the floor to be slippery.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Stop release.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

- For containment : Plug the leak, cut off the supply.  
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage.

#### 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 : Avoid contact with eyes. Avoid contact with skin.  
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 in original container. Keep container closed when not in use.  
Incompatible products : Strong bases. Strong acids.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

|   |   |
|---|---|
| <b>Adacor 70 Dip &amp; Trowel (Mixture)</b>   |   |
| No additional information available   |   |
| <b>sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)</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 |

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| USA - OSHA - Occupational Exposure Limits  |  |
|--|--|
| OSHA PEL (TWA) (mg/m <sup>3</sup> )        | 0.05 mg/m <sup>3</sup> respirable dust   |
| aluminium oxide, non-fibrous (1344-28-1)   |  |
| USA - ACGIH - Occupational Exposure Limits |  |
| ACGIH TWA (mg/m <sup>3</sup> )             | 1 mg/m <sup>3</sup> respirable dust  |
| quartz (14808-60-7)                        |  |
| USA - ACGIH - Occupational Exposure Limits |  |
| 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) |
| USA - OSHA - Occupational Exposure Limits  |  |
| 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.   |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Emergency eye wash fountain with clean water.

### 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:

After air drying or heating. Dust when sawing or tear out. 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                                  | : Liquid                       |
| Appearance                                      | : Slurry.                      |
| Color   | : Gray                         |
| Odor  | : earthy                       |
| Odor threshold                                  | : Not applicable               |
| pH  | : > 10                         |
| Melting point                                   | : > 2000 °F                    |
| Freezing point                                  | : ≈ 32 °F                      |
| 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)                       | : None<br>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                                      | : Moderately 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               |

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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

Air Setting.

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 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

#### sodium silicate, alkaline 1.6/2.6, 35%≤concentration≤55%, aqueous solutions (1344-09-8)

|               |                          |
|---------------|--------------------------|
| LD50 oral rat | > 2000 mg/kg (Rat, Oral) |
|---------------|--------------------------|

#### 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.

pH: > 10

Serious eye damage/irritation : Causes eye irritation.

pH: > 10

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : May cause cancer (After drying or heating, 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 : After drying or heating. 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 serious eye irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### sodium silicate, alkaline 1.6/2.6, 35%≤concentration≤55%, aqueous solutions (1344-09-8)

|             |  |
|-------------|--|
| LC50 fish 1 | 210 mg/l (96 h, Brachydanio rerio, Pure substance) |
|-------------|--|

|                |  |
|----------------|--|
| EC50 Daphnia 1 | 216 mg/l (96 h, Daphnia magna, Pure substance) |
|----------------|--|

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

|             |   |
|-------------|---|
| LC50 fish 1 | > 100 mg/l (96 h, Salmo trutta, Literature study) |
|-------------|---|

|                |  |
|----------------|--|
| EC50 Daphnia 1 | > 100 mg/l (48 h, Daphnia magna, Literature study) |
|----------------|--|

### 12.2. Persistence and degradability

#### Adacor 70 Dip & Trowel (Mixture)

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

#### sodium silicate, alkaline 1.6/2.6, 35%≤concentration≤55%, aqueous solutions (1344-09-8)

|                               |                                   |
|-------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
|-------------------------------|-----------------------------------|

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| <b>sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)</b> |                          |
|---|--------------------------|
| Chemical oxygen demand (COD)  | Not applicable           |
| ThOD  | Not applicable           |
| BOD (% of ThOD)   | Not applicable           |
| <b>crystalite (14464-46-1)</b>  |                          |
| Persistence and degradability   | Mineral. Not applicable. |
| Chemical oxygen demand (COD)  | Not applicable           |
| ThOD  | Not applicable           |
| BOD (% of ThOD)   | Not applicable           |
| <b>aluminium oxide, non-fibrous (1344-28-1)</b>                                       |                          |
| Persistence and degradability   | Not applicable.          |
| Chemical oxygen demand (COD)  | Not applicable           |
| ThOD  | Not applicable           |
| <b>quartz (14808-60-7)</b>  |                          |
| Persistence and degradability   | Not applicable.          |
| Biochemical oxygen demand (BOD)   | Not applicable           |
| Chemical oxygen demand (COD)  | Not applicable           |
| ThOD  | Not applicable           |

### 12.3. Bioaccumulative potential

| <b>Adacor 70 Dip &amp; Trowel (Mixture)</b>   |                                    |
|---|------------------------------------|
| Bioaccumulative potential   | Not established.                   |
| <b>sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)</b> |                                    |
| Bioaccumulative potential   | No bioaccumulation data available. |
| <b>crystalite (14464-46-1)</b>  |                                    |
| Bioaccumulative potential   | No data available.                 |
| <b>aluminium oxide, non-fibrous (1344-28-1)</b>                                       |                                    |
| Bioaccumulative potential   | No data available.                 |
| <b>quartz (14808-60-7)</b>  |                                    |
| Bioaccumulative potential   | No data available.                 |

### 12.4. Mobility in soil

| <b>sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)</b> |   |
|---|---|
| Ecology - soil  | No (test) data on mobility of the component(s) available. |
| <b>crystalite (14464-46-1)</b>  |   |
| Ecology - soil  | No data available.  |
| <b>aluminium oxide, non-fibrous (1344-28-1)</b>                                       |   |
| 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                          |
| Other information            | : Avoid release to the environment. |

## 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

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### Air transport

Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Adacor 70 Dip & Trowel (Mixture)

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

#### 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

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

Listed on IARC (International Agency for Research on Cancer)

### 15.3. US State regulations

#### Adacor 70 Dip & Trowel (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 |
| 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 |
| Quartz (14808-60-7)                      | U.S. - New Jersey - Right to Know Hazardous Substance List  |

## SECTION 16: Other information

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Revision date

: 04/26/2022

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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