SECTION 1: Identification

1.1. Identification
Product form: Mixtures
Product name: Adamant Airset Dry
CAS No: Mixture
Product code: 1565
Other means of identification: Alumina-Silicate Speciality

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 - 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 labelling
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

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>quartz</td>
<td>(CAS No) 14808-60-7</td>
<td>20 - 50</td>
<td>Carc. 1A, H350</td>
</tr>
<tr>
<td>sodium silicate, alkaline 1.6/2.6, 35%&lt;=conc&lt;=55%, aqueous solutions</td>
<td>(CAS No) 1344-09-8</td>
<td>5 - 10</td>
<td>Skin Irrit. 2, H315  Eye Irrit. 2B, H320</td>
</tr>
</tbody>
</table>
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.

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/injuries after inhalation: 
May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation.

Symptoms/injuries after skin contact: 
Causes skin irritation.

Symptoms/injuries 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: 
None known.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions: 
Exercise caution when fighting any chemical fire.

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 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 thoroughly after handling.

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 thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: 
Store in a dry place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

sodium silicate, alkaline 1.6/2.6, 35%<=conc=55%, aqueous solutions (1344-09-8)

Not applicable

quartz (14808-60-7)

ACGIH ACGIH TWA (mg/m³) 0.025 mg/m³ (Silica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)

OSHA OSHA PEL (TWA) (mg/m³) 0.05 mg/m³ 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:**
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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Granular mixture</td>
</tr>
<tr>
<td>Color</td>
<td>Gray brown</td>
</tr>
<tr>
<td>Odor</td>
<td>Earthy Odor</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>&gt; 2000 °F</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Critical temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Critical pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative evaporation rate (ether=1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Non flammable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapor pressure at 50 °C</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>≈ 2.5</td>
</tr>
<tr>
<td>Solubility</td>
<td>Moderately soluble in water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**9.2. Other information**

No additional information available

### SECTION 10: Stability and reactivity

**10.1. Reactivity**

None known.

**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**

No additional information available

**10.6. Hazardous decomposition products**

No additional information available

### SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

<table>
<thead>
<tr>
<th>Routes of exposure</th>
<th>Acute toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Not classified</td>
</tr>
</tbody>
</table>
Adamant Airset Dry
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sodium silicate, alkaline 1.6/2.6, 35%<=conc<=55%, aqueous solutions (1344-09-8)

| LD50 oral rat | > 2000 mg/kg (Rat) |
| Skin corrosion/iritation | Causes skin irritation. |
| Serious eye damage/iritation | 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 |
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/injuries after inhalation | May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation. |
Symptoms/injuries after skin contact | Causes skin irritation. |
Symptoms/injuries after eye contact | Causes eye irritation. |

SECTION 12: Ecological information

12.1. Toxicity

sodium silicate, alkaline 1.6/2.6, 35%<=conc<=55%, aqueous solutions (1344-09-8)

| EC50 Daphnia 1 | 216 mg/l (EC50; 96 h) |
| LC50 fish 2 | 210 mg/l (LC50; 96 h) |

12.2. Persistence and degradability

Adamant Airset Dry (Mixture)

Persistence and degradability | Not established. |

sodium silicate, alkaline 1.6/2.6, 35%<=conc<=55%, aqueous solutions (1344-09-8)

Persistence and degradability | Biodegradability: not applicable. No (test) data on mobility of the components available. |
Biochemical oxygen demand (BOD) | Not applicable |
Chemical oxygen demand (COD) | Not applicable |
ThOD | Not applicable |

quartz (14808-60-7)

Persistence and degradability | Biodegradability: not applicable. No (test) data on mobility of the substance available. |
Biochemical oxygen demand (BOD) | Not applicable |
Chemical oxygen demand (COD) | Not applicable |
ThOD | Not applicable |

12.3. Bioaccumulative potential

Adamant Airset Dry (Mixture)

Bioaccumulative potential | Not established. |

sodium silicate, alkaline 1.6/2.6, 35%<=conc<=55%, aqueous solutions (1344-09-8)

Bioaccumulative potential | No bioaccumulation data available. |

quartz (14808-60-7)

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. |
GWPmix comment | 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. |
Adamant Airset Dry
Safety Data Sheet

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

SECTION 14: Transport information
Department of Transportation (DOT)
In accordance with DOT
Not regulated
TDG
Not regulated
Transport by sea
Not regulated
Air transport
Not regulated

SECTION 15: Regulatory information
15.1. US Federal regulations
sodium silicate, alkaline 1.6/2.6, 35%<=conc<=55%, aqueous solutions (1344-09-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
quartz (14808-60-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

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
Adamant Airset Dry (Mixture)
U.S. - California - Proposition 65 - Other information
This product contains crystalline silica, a chemical known to the state of California to cause cancer.
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
Non-significant risk level (NSRL)
Yes No No No
quartz (14808-60-7)
U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information
Revision date : 12/27/2016
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.