SECTION 1: Identification

1.1. Identification

Product form : Mixtures
Product name : Redart Clay
CAS-No. : Mixture
Product code : 0278
Other means of identification : Alunina-Silicate Mineral

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Mineral Raw Material

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
Not classified

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
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>
</tbody>
</table>

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 victim 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)

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: None known.

5.3. **Special protective equipment and precautions for fire-fighters**

Firefighting instructions: No specific firefighting instructions required.

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**

No additional information available

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

For containment: Collect spillage.

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 in a dry place.

**SECTION 8: Exposure controls/personal protection**

8.1. **Control parameters**

<table>
<thead>
<tr>
<th></th>
<th>ACGIH TWA (mg/m³)</th>
<th>OSHA PEL (TWA) (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td></td>
<td>0.025 mg/m³ (Silica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)</td>
</tr>
<tr>
<td>OSHA</td>
<td></td>
<td>0.05 mg/m³ Respirable fraction</td>
</tr>
</tbody>
</table>

8.2. **Appropriate engineering controls**

Appropriate engineering controls: Ensure good ventilation of the work station.

8.3. **Individual protection measures/Personal protective equipment**

**Hand protection:**

Wear protective gloves

**Eye protection:**

Safety glasses

**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 powder.</td>
</tr>
<tr>
<td>Color</td>
<td>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>
</tbody>
</table>
## Redart Clay
### Safety Data Sheet

Redart Clay (Mixture)

#### Flammability (solid, gas)
- Not flammable.

#### Flash point
- Not applicable

#### Relative evaporation rate (butyl acetate=1)
- Not applicable

#### Relative evaporation rate (ether=1)
- Not applicable

#### Vapor pressure
- Not Applicable

#### Flash point
- Not applicable

#### Relative vapor density at 20 °C
- No data available

#### Relative density
- ≈ 2.6

#### Solubility
- Insoluble in water.

#### 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

#### Explosive properties
- No data available

#### Oxidizing properties
- No data available

#### Other information
- No additional information available

### SECTION 10: Stability and reactivity

#### Reactivity
- None known.

#### Chemical stability
- Stable under normal conditions.

#### Possibility of hazardous reactions
- Not established.

#### Conditions to avoid
- Avoid dust formation.

#### Incompatible materials
- No additional information available

#### Hazardous decomposition products
- No additional information available

### SECTION 11: Toxicological information

#### Information on toxicological effects

<table>
<thead>
<tr>
<th>Likely routes of exposure</th>
<th>Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

#### 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/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

#### Toxicity
- No additional information available

#### Persistence and degradability
- Not established.
### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Redart Clay (Mixture)</td>
<td>Not established.</td>
</tr>
<tr>
<td>quartz (14808-60-7)</td>
<td>No bioaccumulation data available.</td>
</tr>
</tbody>
</table>

### 12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Substances</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>No additional information available</td>
<td></td>
</tr>
</tbody>
</table>

### 12.5. Other adverse effects

- **Effect on the global warming**: None known
- **GWPmix comment**: No known effects from this product.
- **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
- **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

#### 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

<table>
<thead>
<tr>
<th>Substance</th>
<th>California - Proposition 65 - Other information</th>
</tr>
</thead>
<tbody>
<tr>
<td>quartz (14808-60-7)</td>
<td>This product contains crystalline silica, a chemical known to the state of California to cause cancer.</td>
</tr>
</tbody>
</table>

#### U.S. - California - Proposition 65 - Carcinogens List

| Substance          | California - Proposition 65 - Developmental Toxicity | California - Proposition 65 - Reproductive Toxicity - Female | California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
|--------------------|-------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------|
| Yes                | No                                                    | No                                                          | No                                                        | No significant risk level (NSRL) |

### SECTION 16: Other information

- **Revision date**: 03/31/2017
- **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:

| 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.