SECTION 1: Identification

1.1. Identification
- Product form: Mixture
- Product name: Rescoram 90
- CAS-No.: Mixture
- Product code: 0500
- Other means of identification: Plastic/Ramming Mix Refractory

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 - 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 - After drying May cause cancer (Inhalation)

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 - After drying 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
- aluminum oxide, non-fibrous | (CAS-No.) 1344-28-1 | 75 – 95 | Not classified
- phosphoric acid, conc=75%, aqueous solution | (CAS-No.) 7664-38-2 | 5 – 10 | Skin Corr. 1B, H314
- quartz | (CAS-No.) 14808-80-7 | 0.1 – 0.5 | Carc. 1A, H350

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.
Rescoram 90
Safety Data Sheet

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 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:
Avoid contact with skin and eyes.

6.1.2. For emergency responders
Protective equipment:
Equip cleanup crew with proper protection.

Emergency procedures:
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.

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 contact with skin and eyes. After drying 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Rescoram 90 (Mixture)
No additional information available

aluminium oxide, non-fibrous (1344-28-1)
USA - ACGIH - Occupational Exposure Limits
ACGIH TWA (mg/m³) 1 mg/m³ respirable dust

phosphoric acid, conc=75%, aqueous solution (7664-38-2)
No additional information available

quartz (14808-60-7)
USA - ACGIH - Occupational Exposure Limits
ACGIH TWA (mg/m³) 0.025 mg/m³ (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/m³) 0.05 mg/m³ respirable dust
Remark (OSHA) (3) See Table Z-3.

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

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### 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. Safety shoes

- **Respiratory protection:**
  Dust on tear out. In case of inadequate ventilation wear respiratory protection.

**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>Plastic</td>
</tr>
<tr>
<td>Color</td>
<td>Off-white</td>
</tr>
<tr>
<td>Odor</td>
<td>earthy</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; 3000 °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>≈ 3.1</td>
</tr>
<tr>
<td>Solubility</td>
<td>Slightly soluble.</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water (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, kinematic</td>
<td>No data available</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

- **Air Setting.**

#### 10.2. Chemical stability

Stable under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

No additional information available

#### 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>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Not classified</td>
</tr>
<tr>
<td><em>aluminium oxide, non-fibrous</em> (1344-28-1)</td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 15900 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)</td>
</tr>
<tr>
<td>LC50 Inhalation - Rat</td>
<td>7.6 mg/l air (Equivalent or similar to OECD 403, 1 h, Rat, Male, Experimental value, Inhalation (aerosol))</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes eye irritation.</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>After drying May cause cancer (Inhalation).</td>
</tr>
<tr>
<td><em>quartz</em> (14808-60-7)</td>
<td></td>
</tr>
<tr>
<td>IARC group</td>
<td>1 - Carcinogenic to humans</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>Not classified</td>
</tr>
<tr>
<td>Potential Adverse human health effects and symptoms</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>Symptoms/effects after inhalation</td>
<td>After drying or heating. May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation.</td>
</tr>
<tr>
<td>Symptoms/effects after skin contact</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Symptoms/effects after eye contact</td>
<td>Causes eye irritation.</td>
</tr>
</tbody>
</table>

### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available.

#### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Component</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rescoram 90 (Mixture)</td>
<td>Not established.</td>
</tr>
<tr>
<td><em>aluminium oxide, non-fibrous</em> (1344-28-1)</td>
<td>Persistence and degradability: Not applicable. Chemical oxygen demand (COD): Not applicable. ThOD: Not applicable.</td>
</tr>
<tr>
<td><em>phosphoric acid, conc=75%, aqueous solution</em> (7664-38-2)</td>
<td>Persistence and degradability: Biodegradability: not applicable.</td>
</tr>
<tr>
<td><em>quartz</em> (14808-60-7)</td>
<td>Persistence and degradability: Not applicable. Chemical oxygen demand (BOD): Not applicable. Chemical oxygen demand (COD): Not applicable. ThOD: Not applicable.</td>
</tr>
</tbody>
</table>

#### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Component</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rescoram 90 (Mixture)</td>
<td>Not established.</td>
</tr>
<tr>
<td><em>aluminium oxide, non-fibrous</em> (1344-28-1)</td>
<td>Bioaccumulative potential: No data available.</td>
</tr>
<tr>
<td><em>phosphoric acid, conc=75%, aqueous solution</em> (7664-38-2)</td>
<td>Bioaccumulative potential: No test data of component(s) available.</td>
</tr>
<tr>
<td><em>quartz</em> (14808-60-7)</td>
<td>Bioaccumulative potential: No data available.</td>
</tr>
</tbody>
</table>

#### 12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Component</th>
<th>Mobility</th>
<th>Persistence</th>
<th>Degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>aluminium oxide, non-fibrous</em> (1344-28-1)</td>
<td>Ecology</td>
<td>soil</td>
<td>No data available.</td>
</tr>
</tbody>
</table>
**phosphoric acid, conc=75%, aqueous solution (7664-38-2)**

- **Ecology - soil**: Highly mobile in soil.

**12.5. Other adverse effects**

<table>
<thead>
<tr>
<th>Effect on the global warming</th>
<th>None known</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other information</td>
<td>No other effects known.</td>
</tr>
</tbody>
</table>

**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
- **Transportation of Dangerous Goods**: Not regulated
- **Transport by sea**: Not regulated
- **Air transport**: Not regulated

**SECTION 15: Regulatory information**

**15.1. US Federal regulations**

- **Rescoram 90 (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

**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.

**phosphoric acid, conc=75%, aqueous solution (7664-38-2)**

- **Not subject to reporting requirements of the United States SARA Section 313**
- **CERCLA RQ**: 5000 lb

**15.2. International regulations**

- **CANADA**
  - **aluminium oxide, non-fibrous (1344-28-1)**
    - Listed on the Canadian DSL (Domestic Substances List)
  - **phosphoric acid, conc=75%, aqueous solution (7664-38-2)**
    - 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**

- **Rescoram 90 (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

<table>
<thead>
<tr>
<th>Component</th>
<th>State or local regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium oxide, non-fibrous (1344-28-1)</td>
<td>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</td>
</tr>
<tr>
<td>phosphoric acid, conc=75%, aqueous solution (7664-38-2)</td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
</tbody>
</table>
Rescoram 90
Safety Data Sheet

Component | State or local regulations
---|---
Quartz (14808-60-7) | U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Full text of H-phrases:

<table>
<thead>
<tr>
<th>H</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H320</td>
<td>Causes eye irritation</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
</tbody>
</table>

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.