SECTION 1: Identification

1.1. Identification
Product form: Mixture
Product name: Rescoram 70SC
CAS-No.: Mixture
Product code: 0702
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)

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 - After drying May cause cancer (Inhalation)

Precautionary statements (GHS US):
P260 - Do not breathe dust.
P320 - Wear protective gloves.
P332 - If skin irritation occurs: Get medical advice/attention.
P337 - If eye irritation persists: Get medical advice/attention.
P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P351 - If inhaled: Remove person to fresh air; keep呼吸畅通, if breathing has stopped, call for an EMT/doctor.
P353 - Avoid contact with skin and eyes.
P373 - Wash hands after handling.

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>silicon carbide</td>
<td>(CAS-No.) 409-21-2</td>
<td>50 – 75</td>
<td>Carc. 1B, H350</td>
</tr>
<tr>
<td>aluminium oxide, non-fibrous</td>
<td>(CAS-No.) 1344-28-1</td>
<td>10 – 20</td>
<td>Not classified</td>
</tr>
<tr>
<td>phosphoric acid, conc=75%, aqueous solution</td>
<td>(CAS-No.) 7664-38-2</td>
<td>5 – 10</td>
<td>Skin Corr. 1B, H314</td>
</tr>
<tr>
<td>quartz</td>
<td>(CAS-No.) 14808-60-7</td>
<td>0.5 – 1</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 affected person to breathe fresh air. Allow the victim to rest.
Rescoram 70SC
Safety Data Sheet

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)
Potential Adverse human health effects and symptoms:
Symptoms/effects after inhalation: Based on available data, the classification criteria are not met.
Symptoms/effects after skin contact: May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation.
Symptoms/effects after eye contact: Causes skin 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 70SC (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

silicon carbide (409-21-2)
USA - ACGIH - Occupational Exposure Limits
ACGIH TWA (mg/m³) 3 mg/m³ (Silicon carbide, nonfibrous; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction. The value is for particulate matter containing no asbestos and < 1% crystalline silica.

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

<table>
<thead>
<tr>
<th>Local name</th>
<th>Silica, crystalline quartz, respirable dust</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>0.05 mg/m³ respirable dust</td>
</tr>
<tr>
<td>Remark (OSHA)</td>
<td>(3) See Table Z-3.</td>
</tr>
</tbody>
</table>

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

- **Physical state**: Solid
- **Appearance**: Plastic
- **Color**: Black
- **Odor**: earthy
- **Odor threshold**: Not applicable
- **pH**: No data available
- **Melting point**: > 2000 °F
- **Freezing point**: Not applicable
- **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)**: Non flammable.
- **Vapor pressure**: Not Applicable
- **Vapor pressure at 50 °C**: Not Applicable
- **Relative vapor density at 20 °C**: No data available
- **Relative density**: ≈ 2.6
- **Solubility**: Slightly soluble.
- **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
- **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**

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></th>
<th>Acute toxicity (oral)</th>
<th>Acute toxicity (dermal)</th>
<th>Acute toxicity (inhalation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium oxide, non-fibrous (1344-28-1)</td>
<td>Not classified</td>
<td>Not classified</td>
<td>Not classified</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>
<td></td>
<td></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>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>LD50 oral rat</th>
<th>LD50 dermal rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>silicon carbide (409-21-2)</td>
<td>&gt; 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt; 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)</td>
<td></td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**
- Causes skin irritation.

**Serious eye damage/irritation**
- Causes eye irritation.

**Respiratory or skin sensitization**
- Not classified

**Germ cell mutagenicity**
- Not classified

**Carcinogenicity**
- After drying May cause cancer (Inhalation).

### 11.2. Information on potential adverse human health effects and symptoms

**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.

## SECTION 12: Ecological information

### 12.1. Toxicity
No additional information available

### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th></th>
<th>Rescoram 70SC (Mixture)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>aluminium oxide, non-fibrous (1344-28-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Chemical oxygen demand (COD)</th>
<th>ThOD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>phosphoric acid, conc=75%, aqueous solution (7664-38-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Biodegradability: not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>silicon carbide (409-21-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Biodegradability: not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Chemical oxygen demand (COD)</th>
<th>ThOD</th>
<th>BOD (% of ThOD)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>quartz (14808-60-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>2A - Probably carcinogenic to humans</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>IARC group</th>
<th>1 - Carcinogenic to humans</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
<td></td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>Not classified</td>
<td></td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>Not classified</td>
<td></td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
<td></td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Potential Adverse human health effects and symptoms</td>
<td>Based on available data, the classification criteria are not met.</td>
<td></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>
<td></td>
</tr>
<tr>
<td>Symptoms/effects after skin contact</td>
<td>Causes skin irritation.</td>
<td></td>
</tr>
<tr>
<td>Symptoms/effects after eye contact</td>
<td>Causes eye irritation.</td>
<td></td>
</tr>
</tbody>
</table>
12.3. Bioaccumulative potential

| Rescoram 70SC (Mixture) | Bioaccumulative potential | Not established. |

| Aluminium oxide, non-fibrous (1344-28-1) | Bioaccumulative potential | No data available. |

| Phosphoric acid, conc=75%, aqueous solution (7664-38-2) | Bioaccumulative potential | No test data of component(s) available. |

| Silicon carbide (409-21-2) | Bioaccumulative potential | Bioaccumulation: not applicable. |

| Quartz (14808-60-7) | Bioaccumulative potential | No data available. |

12.4. Mobility in soil

| Aluminium oxide, non-fibrous (1344-28-1) | Ecology - soil | No data available. |

| Phosphoric acid, conc=75%, aqueous solution (7664-38-2) | Ecology - soil | Highly mobile in soil. |

12.5. Other adverse effects

| Effect on the global warming | None known |
| Other information | No other effects 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

| 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

| Rescoram 70SC (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 | Listed on the Canadian DSL (Domestic Substances List) |

| Aluminium oxide, non-fibrous (1344-28-1) |
| Phosphoric acid, conc=75%, aqueous solution (7664-38-2) | Listed on the Canadian DSL (Domestic Substances List) |
# Rescoram 70SC
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### silicon carbide (409-21-2)
- Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations
- No additional information available

### National regulations

#### silicon carbide (409-21-2)
- Listed on IARC (International Agency for Research on Cancer)

#### quartz (14808-60-7)
- Listed on IARC (International Agency for Research on Cancer)

### US State regulations

#### Rescoram 70SC (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)

#### Quartz (14808-60-7)

<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>silicon carbide (409-21-2)</td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance 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>
<tr>
<td>Quartz (14808-60-7)</td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
</tbody>
</table>

### SECTION 16: Other Information

- **Revision date**: 09/13/2021
- **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:**

<table>
<thead>
<tr>
<th>H314</th>
<th>Causes severe skin burns and eye damage</th>
</tr>
</thead>
<tbody>
<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.