SECTION 1: Identification

1.1. Identification
Product form: Mixture
Product name: Rescomag 92 FMS
CAS-No.: Mixture
Product code: 6865
Other means of identification: Magnesia - Alumina Spinel Brick

1.2. Recommended use and restrictions on use
Use of the substance/mixture: Refractory Brick
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
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335 May cause respiratory irritation from dust in sawing or tear out operations.

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): Warning
Hazard statements (GHS US):
- Dust from sawing or tear out may irritate eye.
  H315 - Causes skin irritation
- May cause respiratory irritation from dust in sawing or tear out operations.
  H335 - Causes respiratory irritation from dust in sawing or tear out operations.
- P280 - Wear Safety shoes, protective gloves, eye protection.

Precautionary statements (GHS US):

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>Magnesium Oxide</td>
<td>(CAS-No.) 1309-48-4</td>
<td>75 – 95</td>
<td>Not classified</td>
</tr>
<tr>
<td>aluminium oxide, non-fibrous</td>
<td>(CAS-No.) 1344-28-1</td>
<td>5 – 10</td>
<td>Not classified</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 after inhalation: Dust when sawing or tear out. Allow affected person to breathe fresh air.
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: Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)
Symptoms/effects after inhalation: May cause respiratory 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**

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>Use extinguishing media appropriate for surrounding fire.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsuitable extinguishing media</td>
<td>In case of fire, all extinguishing media allowed.</td>
</tr>
</tbody>
</table>

**5.2. Specific hazards arising from the chemical**

- **Fire hazard**: Non-flammable.

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

<table>
<thead>
<tr>
<th>Firefighting instructions</th>
<th>Fight fire with normal precautions from a reasonable distance.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protection during firefighting</td>
<td>Do not enter fire area without proper protective equipment, including respiratory protection.</td>
</tr>
</tbody>
</table>

### SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

**6.1.1. For non-emergency personnel**

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency procedures</td>
<td>Avoid contact with skin. Avoid contact with eyes.</td>
</tr>
</tbody>
</table>

**6.1.2. For emergency responders**

<table>
<thead>
<tr>
<th>Protective equipment</th>
<th>Do not attempt to take action without suitable protective equipment.</th>
</tr>
</thead>
</table>

**6.2. Environmental precautions**

No additional information available

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

<table>
<thead>
<tr>
<th>For containment</th>
<th>Collect spillage.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methods for cleaning up</td>
<td>On land, sweep or shovel into suitable containers.</td>
</tr>
</tbody>
</table>

**6.4. Reference to other sections**

No additional information available

### SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

<table>
<thead>
<tr>
<th>Hygiene measures</th>
<th>Do not eat, drink or smoke when using this product. Wash skin thoroughly with mild soap and water.</th>
</tr>
</thead>
</table>

**7.2. Conditions for safe storage, including any incompatibilities**

<table>
<thead>
<tr>
<th>Storage conditions</th>
<th>Store this product in a dry location where it can be protected from the elements.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incompatible products</td>
<td>Strong acids.</td>
</tr>
</tbody>
</table>

### SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

<table>
<thead>
<tr>
<th>Rescomag 92 FMS (Mixture)</th>
<th>No additional information available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Magnesium Oxide (1309-48-4)</th>
</tr>
</thead>
</table>

**USA - ACGIH - Occupational Exposure Limits**

- ACGIH TWA (mg/m³): 10 mg/m³ inhalable dust

**USA - OSHA - Occupational Exposure Limits**

- OSHA PEL (TWA) (mg/m³): 10 mg/m³ respirable dust

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

**USA - ACGIH - Occupational Exposure Limits**

- ACGIH TWA (mg/m³): 1 mg/m³ respirable dust

**8.2. Appropriate engineering controls**

<table>
<thead>
<tr>
<th>Appropriate engineering controls</th>
<th>Dust when sawing or tear out. Provide adequate ventilation to minimize dust concentrations.</th>
</tr>
</thead>
</table>

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

- **Hand protection**: protective gloves
- **Eye protection**: Safety glasses
- **Skin and body protection**: Safety shoes

### SECTION 9: Physical and chemical properties

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

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>brown</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>&gt; 2500 °F</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
</tbody>
</table>

09/13/2021 EN (English US)
Rescomag 92 FMS  
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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Non flammable.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>≈ 2.9</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water.</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>No data available</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>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</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  
No additional information available

10.2. Chemical stability  
Stable under normal conditions of use.

10.3. Possibility of hazardous reactions  
No additional information available

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  
Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

**Magnesium Oxide (1309-48-4)**  
LD50 oral rat : > 5000 mg/kg (Rat, Literature study, Oral)
LD50 dermal rabbit : > 2000 mg/kg body weight (Rabbit, Literature study, Dermal)

**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)
LC50 Inhalation - Rat : 7.6 mg/l air (Equivalent or similar to OECD 403, 1 h, Rat, Male, Experimental value, Inhalation (aerosol))

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : May cause respiratory irritation from dust in sawing or tear out operations.
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available
Symptoms/effects after inhalation : May cause respiratory irritation.

SECTION 12: Ecological information

12.1. Toxicity  
No additional information available

12.2. Persistence and degradability  

### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Component</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium Oxide (1309-48-4)</td>
<td>No bioaccumulation data available.</td>
</tr>
<tr>
<td>aluminium oxide, non-fibrous (1344-28-1)</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

### 12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Component</th>
<th>Ecology - soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium Oxide (1309-48-4)</td>
<td>No data available.</td>
</tr>
<tr>
<td>aluminium oxide, non-fibrous (1344-28-1)</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

### 12.5. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

13.1. Disposal methods

No additional information available

### 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

- **Rescomag 92 FMS (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
  - **Magnesium Oxide (1309-48-4)**
  - **aluminium oxide, non-fibrous (1344-28-1)**
  - Not subject to reporting requirements of the United States SARA Section 313
  - 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

- **Magnesium Oxide (1309-48-4)**
  - 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

No additional information available

15.3. US State regulations

<table>
<thead>
<tr>
<th>Component</th>
<th>State or local regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium Oxide (1309-48-4)</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>
</tbody>
</table>
Rescomag 92 FMS
Safety Data Sheet

Component | State or local regulations
---|---
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

**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>H315</th>
<th>Causes skin irritation</th>
</tr>
</thead>
<tbody>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
</tbody>
</table>

SDS US (GHS HazCom 2012)
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