Rescal 10 CRSR
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 06/30/2021 Revision date: 06/30/2021 Supersedes: 02/15/2019

SECTION 1: Identification
1.1. Identification
Product form: Mixture
Product name: Rescal 10 CRSR
CAS-No.: Mixture
Product code: 7020
Other means of identification: Alumina-Chrome 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

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): H315 - Causes skin irritation
Precautionary statements (GHS US):
P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear Safety shoes, protective gloves, and eye protection.
P294 - If on skin: Wash with plenty of water.
P302+P352 - If on skin: Wash with plenty of water.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

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>aluminium oxide, non-fibrous</td>
<td>(CAS-No.) 1344-28-1</td>
<td>75 – 95</td>
<td>Not classified</td>
</tr>
<tr>
<td>chromium(III) oxide</td>
<td>(CAS-No.) 1308-38-9</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 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: 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. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)
Symptoms/effects after inhalation: Coughing.
Symptoms/effects after skin contact: Causes skin irritation.
Symptoms/effects after eye contact: Causes eye irritation.

**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: Non-flammable.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions: No specific fire-fighting 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


6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment: Collect spillage.

Methods for cleaning up: Collect spillage.

6.4. Reference to other sections

No additional information available

**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. 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.

Incompatible products: Strong bases. Strong acids.

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

8.1. Control parameters

<table>
<thead>
<tr>
<th>Rescal 10 CRSR (Mixture)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No additional information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>aluminium oxide, non-fibrous (1344-28-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA - ACGIH - Occupational Exposure Limits</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ACGIH TWA (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mg/m³ respirable dust</td>
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</table>

<table>
<thead>
<tr>
<th>chromium(III) oxide (1308-38-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA - ACGIH - Occupational Exposure Limits</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>ACGIH TWA (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.003 mg/m³ (Inhalable fraction)</td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls

Appropriate engineering controls: Provide adequate ventilation to minimize dust concentrations. Dust when sawing or tear out.

8.3. Individual protective measures/Personal protective equipment

Personal protective equipment:

**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

**SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
</tr>
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<table>
<thead>
<tr>
<th>Appearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red-Purple Brick Shape.</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>red Purple</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>odorless</td>
</tr>
</tbody>
</table>

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Odor threshold: No data available
pH: No data available
Melting point: > 2500 °F
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Relative evaporation rate (butyl acetate=1): No data available
Flammability (solid, gas): Non flammable.
Vapor pressure: No data available
Relative vapor density at 20 °C: No data available
Relative density: ≈ 3.1
Solubility: Insoluble in water.
Partition coefficient n-octanol/water (Log Pow): No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosion limits: No data available
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
Fire conditions may produce small amounts of hexavalent chromium and other oxidation products.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No additional information available

10.4. Conditions to avoid
No additional information available

10.5. Incompatible materials
Strong acids. Chromic oxide may react with alkali at high temperatures under oxidizing conditions.

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

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))

chromium(III) oxide (1308-38-9)

LD50 oral rat: > 15000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value, Oral)
LC50 Inhalation - Rat: > 5.41 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, 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: Not classified
STOT-repeated exposure: Not classified
Aspiration hazard: Not classified
Viscosity, kinematic: No data available
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chromium(III) oxide (1308-38-9)
Symptoms/effects after inhalation: Coughing.
Symptoms/effects after skin contact: Causes skin irritation.
Symptoms/effects after eye contact: Causes eye irritation.

SECTION 12: Ecological information

12.1. Toxicity
chromium(III) oxide (1308-38-9)
LC50 fish 1: > 2.9 µg/l (ISO 7346-1, 96 h, Danio rerio, Static system, Fresh water, Experimental value, GLP)

12.2. Persistence and degradability
aluminium oxide, non-fibrous (1344-28-1)
Persistence and degradability: Not applicable.
Chemical oxygen demand (COD): Not applicable
ThOD: Not applicable

chromium(III) oxide (1308-38-9)
Persistence and degradability: Biodegradability in soil: not applicable. Biodegradability: not applicable.
Chemical oxygen demand (COD): Not applicable (inorganic)
ThOD: Not applicable (inorganic)

12.3. Bioaccumulative potential
aluminium oxide, non-fibrous (1344-28-1)
Bioaccumulative potential: No data available.

chromium(III) oxide (1308-38-9)
BCF fish 1: 260 – 800 (Lepomis macrochirus, Fresh water, Read-across, Fresh weight)
Bioaccumulative potential: Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

12.4. Mobility in soil
aluminium oxide, non-fibrous (1344-28-1)
Ecology - soil: No data available.

chromium(III) oxide (1308-38-9)
Surface tension: Not applicable (solid)
Ecology - soil: Adsorbs into the soil.

12.5. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods
Product/Packaging disposal recommendations: Do not discharge into the sewer.
Additional information: Chromite (Cr³⁺) may in normal use be converted chemically to a chromate (Cr⁶⁺).
Hexavalent chromium (Cr⁶⁺) is considered a hazardous material.

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
Rescal 10 CRSR (Mixture)
This information must be included in all SDS's that are copied and distributed for this material.

Note
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

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<table>
<thead>
<tr>
<th>aluminium oxide, non-fibrous (1344-28-1)</th>
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<tbody>
<tr>
<td>Note: The section 313 chemical list contains &quot;CAS # 1344-28-1 Aluminum Oxide (Fibrous forms)&quot;; 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.</td>
</tr>
</tbody>
</table>

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<tr>
<th>chromium(III) oxide (1308-38-9)</th>
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<tbody>
<tr>
<td>Subject to reporting requirements of United States SARA Section 313</td>
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### 15.2. International regulations

**CANADA**

<table>
<thead>
<tr>
<th>aluminium oxide, non-fibrous (1344-28-1)</th>
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<tbody>
<tr>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
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### EU-Regulations

No additional information available

### National regulations

No additional information available

### 15.3. US State regulations

**Rescal 10 CRSR (Mixture)**

<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>chromium(III) oxide (1308-38-9)</td>
<td>U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List</td>
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### SECTION 16: Other information

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

Revision date: 06/30/2021

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>H-phrase</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
</tbody>
</table>

SDS US (GHS HazCom 2012)

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