

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : CRB-20  
CAS-No. : Mixture  
Product code : 1275 Mix3705  
Other means of identification : Magnesia-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](mailto:SDS@RescoProducts.com) - [WWW.RescoProducts.com](http://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,<br>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) : H335 - May cause respiratory irritation from dust in sawing or tear out operations.  
H315 - Causes skin irritation  
Dust from sawing or tear out may irritate eye.  
Precautionary statements (GHS US) : P280 - Wear Safety shoes, protective gloves, eye protection.

#### 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 |
|----------------------|--------------------|---------|-----------------------|
| Transvaal Chrome Ore | CAS-No.: 1308-31-2 | 50 – 75 | Not classified        |
| Magnesium Oxide      | CAS-No.: 1309-48-4 | 20 – 50 | Not classified        |

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.

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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 : Cough.

### 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 : Non-flammable.

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

Firefighting instructions : Fight fire from safe distance and protected location.

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

Protective equipment : Safety shoes. Protective gloves. Safety glasses.

Emergency procedures : Avoid contact with skin. Avoid contact with eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

### 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.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash skin thoroughly with mild soap and water.

### 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 acids. Chromic oxide may react with alkali at high temperatures under oxidizing conditions.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### CRB-20 (Mixture)

No additional information available

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

##### USA - ACGIH - Occupational Exposure Limits

|               |                                     |
|---------------|-------------------------------------|
| ACGIH OEL TWA | 10 mg/m <sup>3</sup> inhalable dust |
|---------------|-------------------------------------|

##### USA - OSHA - Occupational Exposure Limits

|                    |                                      |
|--------------------|--------------------------------------|
| OSHA PEL (TWA) [1] | 10 mg/m <sup>3</sup> respirable dust |
|--------------------|--------------------------------------|

#### Transvaal Chrome Ore (1308-31-2)

##### USA - ACGIH - Occupational Exposure Limits

|               |                                       |
|---------------|---------------------------------------|
| ACGIH OEL TWA | 0.05 mg/m <sup>3</sup> inhalable dust |
|---------------|---------------------------------------|

### 8.2. Appropriate engineering controls

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

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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:

Safety shoes. Wear suitable protective clothing

#### Respiratory protection:

Dust when sawing or tear out. Wear appropriate mask

## SECTION 9: Physical and chemical properties

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

|   |                            |
|---|----------------------------|
| Physical state                                  | : Solid                    |
| Appearance                                      | : Solid in various shapes. |
| Color   | : Dark                     |
| Odor  | : None                     |
| 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                                | : 2.8 – 3.3                |
| 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

No additional information available

### 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

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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) |
| Skin corrosion/irritation   | : Causes skin irritation.                                   |

| Magnesium Oxide (1309-48-4)   |                  |
|-------------------------------|------------------|
| pH                            | 11 (10 %)        |
| Serious eye damage/irritation | : Not classified |

| Magnesium Oxide (1309-48-4)       |  |
|-----------------------------------|--|
| pH                                | 11 (10 %)  |
| 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  |

| Magnesium Oxide (1309-48-4)       |                        |
|-----------------------------------|------------------------|
| Viscosity, kinematic              | Not applicable (solid) |
| Symptoms/effects after inhalation | : Cough.               |

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

| Magnesium Oxide (1309-48-4)   |                 |
|-------------------------------|-----------------|
| Persistence and degradability | Not applicable. |
| Chemical oxygen demand (COD)  | Not applicable  |
| ThOD                          | Not applicable  |

| Transvaal Chrome Ore (1308-31-2) |                  |
|----------------------------------|------------------|
| Persistence and degradability    | Not established. |
| Chemical oxygen demand (COD)     | Not applicable   |
| ThOD                             | Not applicable   |

### 12.3. Bioaccumulative potential

| Magnesium Oxide (1309-48-4) |                                    |
|-----------------------------|------------------------------------|
| Bioaccumulative potential   | No bioaccumulation data available. |

| Transvaal Chrome Ore (1308-31-2) |                    |
|----------------------------------|--------------------|
| Bioaccumulative potential        | No data available. |

### 12.4. Mobility in soil

| Magnesium Oxide (1309-48-4) |                                     |
|-----------------------------|-------------------------------------|
| Surface tension             | No data available in the literature |
| Ecology - soil              | No data available.                  |

| Transvaal Chrome Ore (1308-31-2) |                    |
|----------------------------------|--------------------|
| Ecology - soil                   | No data available. |

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### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Chromite (Cr<sup>+3</sup>) may in normal use be converted chemically to a chromate (Cr<sup>+6</sup>). Hexavalent chromium (Cr<sup>+6</sup>) is considered a hazardous material.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

### Department of Transportation (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 present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

|                      |                   |          |
|----------------------|-------------------|----------|
| Transvaal Chrome Ore | CAS-No. 1308-31-2 | 50 – 75% |
|----------------------|-------------------|----------|

### 15.2. International regulations

#### CANADA

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

Listed on the Canadian DSL (Domestic Substances List)

#### Transvaal Chrome Ore (1308-31-2)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

#### CRB-20 (Mixture)

|  |   |
|--|---|
| U.S. - California - Proposition 65 - Other information | This product contains chromite (Cr <sup>+3</sup> ) which may in normal use, be converted chemically to a chromate (Cr <sup>+6</sup> ) hexavalent chrome, a chemical known to the State of California to cause cancer. |
|--|---|

#### Transvaal Chrome Ore (1308-31-2)

|  |   |
|--|---|
| U.S. - California - Proposition 65 - Other information | This product contains chromite (Cr <sup>+3</sup> ) which may in normal use, be converted chemically to a chromate (Cr <sup>+6</sup> ) hexavalent chrome, a chemical known to the State of California to cause cancer. |
|--|---|

| Component                        | State or local regulations  |
|----------------------------------|---|
| Magnesium Oxide (1309-48-4)      | 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 |
| Transvaal Chrome Ore (1308-31-2) | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List   |

## SECTION 16: Other information

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

Revision date : 09/12/2022

### Full text of H-phrases

|      |                                  |
|------|----------------------------------|
| H315 | Causes skin irritation           |
| H335 | May cause respiratory irritation |

Safety Data Sheet (SDS), USA

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.