

# Rescobond Dry Brush Mix

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Issue date: 3/22/2019 Revision date: 6/27/2025 Supersedes: 6/22/2022

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Rescobond Dry Brush Mix  
CAS-No. : Mixture  
Product code : 0072  
Other means of identification : Alumina Chemically Bonded Coating Mix

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Refractory  
Recommended use : Industrial use

#### 1.3. Supplier

RHI Magnesita  
One Robinson Plaza, Suite 300  
6600 Steubenville Pike  
Pittsburgh, PA, 15205  
United States  
T 412-494-4491

[Resco\\_SDS.TDS@rhimagnesita.com](mailto:Resco_SDS.TDS@rhimagnesita.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.  
Full text of H-statements: see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning  
Hazard statements (GHS US) : H315 - Causes skin irritation.  
Causes eye irritation  
Precautionary statements (GHS US) : P262 - Do not get in eyes, on skin, or on clothing.  
P280 - Wear eye protection, protective gloves, protective clothing.  
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)

No additional information available

### 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	50 – 75	Not classified
Mono-Magnesium Phosphate	CAS-No.: 13092-66-5	20 – 50	Not classified
Magnesium Oxide	CAS-No.: 1309-48-4	1 – 5	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 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.

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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. Get medical advice/attention if you feel unwell. Do not induce vomiting.

### 4.2. Most important symptoms and effects (acute and delayed)

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

Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Prevent entry to sewers and public waters.
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 glasses. Protective goggles. Gloves. Protective clothing.
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#### 6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
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### 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	: 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

Precautions for safe handling	: Avoid contact with skin and eyes. Do not handle until all safety precautions have been read and understood.
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.
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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### aluminum oxide, non-fibrous (1344-28-1)

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

ACGIH® TLV® TWA	1 mg/m³ respirable dust
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#### Magnesium Oxide (1309-48-4)

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

ACGIH® TLV® TWA	10 mg/m³ inhalable dust
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##### USA - OSHA - Occupational Exposure Limits

OSHA PEL TWA	10 mg/m³ respirable dust
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### 8.2. Appropriate engineering controls

Appropriate engineering controls	: 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.

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<b>Hand protection:</b>
Wear protective gloves.
<b>Eye protection:</b>
Chemical goggles or safety glasses
<b>Skin and body protection:</b>
Wear suitable protective clothing
<b>Respiratory protection:</b>
Wear appropriate mask

### 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

Physical state	: Solid
Appearance	: Granular powder.
Colour	: Off-white
Odour	: slight
Odour threshold	: No data available
pH	: $\approx 5.4$
pH solution concentration	: 10 %
Melting point	: > 2000 °F
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Not flammable.
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Solubility	: Slightly soluble.
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
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

### 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.

### 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

aluminum oxide, non-fibrous (1344-28-1)	
LD50 oral rat	> 15900 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LC50 Inhalation - Rat	> 2.3 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))

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

Skin corrosion/irritation : Causes skin irritation.  
pH: ≈ 5.4

aluminum oxide, non-fibrous (1344-28-1)	
pH	9 – 10.5 (aqueous suspension, 33 %)

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

Serious eye damage/irritation : Not classified  
pH: ≈ 5.4

aluminum oxide, non-fibrous (1344-28-1)	
pH	9 – 10.5 (aqueous suspension, 33 %)

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

Respiratory or skin sensitisation : 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

aluminum oxide, non-fibrous (1344-28-1)	
Viscosity, kinematic	Not applicable (solid)

Magnesium Oxide (1309-48-4)	
Viscosity, kinematic	Not applicable (solid)

Symptoms/effects after skin contact : Causes skin irritation.  
Symptoms/effects after eye contact : Causes eye irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

aluminum oxide, non-fibrous (1344-28-1)	
LC50 - Fish [1]	> 100 mg/l (96 h, Salmo trutta, Literature study)
EC50 - Crustacea [1]	> 100 mg/l (48 h, Daphnia magna, Literature study)

### 12.2. Persistence and degradability

Rescobond Dry Brush Mix (Mixture)	
Persistence and degradability	Rapidly degradable

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

Mono-Magnesium Phosphate (13092-66-5)	
Persistence and degradability	Rapidly degradable

Magnesium Oxide (1309-48-4)	
Persistence and degradability	Not applicable.

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<b>Magnesium Oxide (1309-48-4)</b>	
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
<b>12.3. Bioaccumulative potential</b>	
<b>aluminum oxide, non-fibrous (1344-28-1)</b>	
Bioaccumulative potential	No data available.
<b>Magnesium Oxide (1309-48-4)</b>	
Bioaccumulative potential	No bioaccumulation data available.
<b>12.4. Mobility in soil</b>	
<b>aluminum oxide, non-fibrous (1344-28-1)</b>	
Surface tension	Not applicable (water solubility < 1 mg/l)
Ecology - soil	No data available.
<b>Magnesium Oxide (1309-48-4)</b>	
Surface tension	No data available in the literature
Ecology - soil	No data available.
<b>12.5. Other adverse effects</b>	
No additional information available	
<b>SECTION 13: Disposal considerations</b>	
<b>13.1. Disposal methods</b>	
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.	
<b>SECTION 14: Transport information</b>	
In accordance with DOT / TDG / IMDG / IATA	
<b>Department of Transportation (DOT)</b>	
In accordance with DOT	
Not regulated	
<b>Transportation of Dangerous Goods</b>	
Not regulated	
<b>Transport by sea</b>	
Not regulated	
<b>Air transport</b>	
Not regulated	
<b>SECTION 15: Regulatory information</b>	
<b>15.1. US Federal regulations</b>	
All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory	
<b>aluminum oxide, non-fibrous (1344-28-1)</b>	
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.
<b>15.2. International regulations</b>	
<b>CANADA</b>	
<b>aluminum oxide, non-fibrous (1344-28-1)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>Mono-Magnesium Phosphate (13092-66-5)</b>	
Listed on the Canadian NDSL (Non-Domestic Substances List)	
<b>Magnesium Oxide (1309-48-4)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>EU-Regulations</b>	
No additional information available	
<b>National regulations</b>	
No additional information available	
<b>15.3. US State regulations</b>	
<b>Component</b>	<b>State or local regulations</b>
aluminum 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

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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

### SECTION 16: Other information

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Revision date : 6/27/2025

Other information : Report language name. English. In the event of any conflict between the English and other language versions, the English version shall prevail.

#### Full text of hazard classes and H-statements

H315	Causes skin irritation.
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Safety Data Sheet (SDS), USA

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