

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 07/12/2021 Revision date: 07/12/2021 Supersedes: 07/30/2018

### **SECTION 1: Identification**

1.1. Identification

Product form : Mixture
Product name : Rescobond 3000
CAS-No. : Mixture

Product code : 1589

Other means of identification : Alumina-Silicate Chemically Bonded Castable

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 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 - May cause cancer (Inhalation)

Precautionary statements (GHS US) : P280 - Wear eye protection, Dust respirator, protective gloves.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P332+P313 - If skin irritation occurs: Get medical advice/attention. 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)

Not applicable

# **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
aluminium oxide, non-fibrous	(CAS-No.) 1344-28-1	10 – 20	Not classified
Mono-Magnesium Phosphate	(CAS-No.) 13092-66-5	5 – 10	Not classified
Magnesium Oxide	(CAS-No.) 1309-48-4	1 – 5	Not classified
quartz	(CAS-No.) 14808-60-7	1 – 5	Carc. 1A, H350
cristobalite	(CAS-No.) 14464-46-1	0.1 – 0.5	Carc. 1A, H350

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).

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First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

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

: Based on available data, the classification criteria are not met.

: May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation.
: Causes skin irritation.

Symptoms/effects after eye contact : Causes eye irritation.

1.3. Immediate medical attention and special treatment, if necessary

No additional information available

Symptoms/effects after inhalation

Symptoms/effects after skin contact

### **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 : Do not breathe dust.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 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. Minimize generation of dust.

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 raising dust.

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

ontrol paramotoro			
Rescobond 3000 (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		
Magnesium Oxide (1309-48-4)			
USA - ACGIH - Occupational Exposure Limits			
CGIH TWA (mg/m³) 10 mg/m³ inhalable dust			
USA - OSHA - Occupational Exposure Limits			
OSHA PEL (TWA) (mg/m³)	10 mg/m³ respirable dust		
Mono-Magnesium Phosphate (13092-66-5)			
No additional information available			
cristobalite (14464-46-1)			
USA - ACGIH - Occupational Exposure Limits			
ACGIH TWA (mg/m³)	0.025 mg/m³ respirable dust		

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USA - OSHA - Occupational Exposure Limits			
OSHA PEL (TWA) (mg/m³)	0.05 mg/m³ respirable dust		
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			
Local name	Silica, crystalline quartz, respirable dust		
OSHA PEL (TWA) (mg/m³)	0.05 mg/m³ respirable dust		
Remark (OSHA)	(3) See Table Z-3.		

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate ventilation to minimize dust concentrations.

### 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:

Wear suitable protective clothing

### Respiratory protection:

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 mixture.

Color : Gray
Odor : Acid Odor
Odor threshold : Not applicable
pH : No data available

Melting point > 2000 °F : Not applicable Freezing point Boiling point : Not applicable Critical temperature 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 No data available Vapor pressure at 50 °C Not Applicable Relative vapor density at 20 °C No data available

Relative density : ≈ 1.6

Solubility : Slightly soluble. Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : Not applicable Decomposition temperature No data available : No data available Viscosity, kinematic Viscosity, dynamic No data available **Explosion limits** : Not applicable Explosive properties : No data available Oxidizing properties : No data available

9.2. Other information

No additional information available

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Magnesium Oxide (1309-48-4)
Persistence and degradability

Chemical oxygen demand (COD)

Chemical oxygen demand (COD)

**cristobalite (14464-46-1)**Persistence and degradability

ThOD

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SECTION 10: Stability and reactivity	
IO.1. Reactivity	
Hydraulic setting.	
10.2. Chemical stability	
Stable under normal conditions of use.	
10.3. Possibility of hazardous reactions	
Not established.	
10.4. Conditions to avoid	
Avoid dust formation.	
0.5. Incompatible materials	
Strong acids. Strong bases.	
0.6. Hazardous decomposition products	
No additional information available	
SECTION 11: Toxicological information	on and the second s
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))
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.
Serious eye damage/irritation	: Causes eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer (Inhalation).
quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met.
symptoms	
Symptoms/effects after inhalation	: 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	
2.1. Toxicity	
No additional information available	
2.2. Persistence and degradability	
Rescobond 3000 (Mixture)	
Persistence and degradability	Not established.
aluminium oxide, non-fibrous (1344-28-1)	
Persistence and degradability	Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

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Not applicable.

Not applicable

Not applicable

Not applicable

Mineral. Not applicable.

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cristobalite (14464-46-1)			
Not applicable			
Not applicable			
quartz (14808-60-7)			
Not applicable.			
Not applicable			
Not applicable			
Not applicable			

# 12.3. Bioaccumulative potential Rescobond 3000 (Mixture)

Bioaccumulative potential	Not established.		
aluminium oxide, non-fibrous (1344-28-1)			
Bioaccumulative potential	No data available.		
Magnesium Oxide (1309-48-4)			
Bioaccumulative potential	No bioaccumulation data available.		
cristobalite (14464-46-1)			
Bioaccumulative potential	cumulative potential No data available.		
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.		
Magnesium Oxide (1309-48-4)			
Ecology - soil	No data available.		
cristobalite (14464-46-1)			
Fcology - soil	No data available.		

### 12.5. Other adverse effects

Effect on the global warming None 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

### Rescobond 3000 (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: 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.

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# 15.2. International regulations

### CANADA

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

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

### Mono-Magnesium Phosphate (13092-66-5)

Listed on the Canadian NDSL (Non-Domestic Substances List)

### cristobalite (14464-46-1)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

### **National regulations**

### quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

### 15.3. US State regulations

Rescobond 300	00 (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				
cristobalite (14	464-46-1)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female		U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No		No		
quartz (14808-6	0-7)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S Calif Proposition Reproducti Toxicity - F	1 65 - ve	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No		No		

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
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
Cristobalite (14464-46-1)	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
Quartz (14808-60-7)	U.S New Jersey - Right to Know Hazardous Substance List

### **SECTION 16: Other information**

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Revision date : 07/12/2021

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:

H315	Causes skin irritation		
H320	Causes eye irritation		
H350	May cause cancer		

#### 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.

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