

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 6/17/2015 Revision date: 7/26/2024 Supersedes: 7/12/2021

### **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture
Product name : Rescobond MAXX

CAS-No. : Mixture Product code : 8917

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
T 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

Serious eye damage/eye irritation, Category 2B

Carcinogenicity, Category 1A

H315

Causes skin irritation.

Causes eye irritation

Causes eye irritation

May cause cancer (Inhalation).

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) : 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)

No additional information available

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

### 3.1. Substances

Not applicable

### 3.2. Mixtures

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Name	Product identifier	%	GHS-US classification
aluminium oxide, non-fibrous	CAS-No.: 1344-28-1	50 – 75	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

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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. Obtain emergency medical attention.

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

Potential adverse human health effects and : Danger of serious damage to health by prolonged exposure through inhalation.

symptoms

Symptoms/effects after inhalation : Danger of serious damage to health by prolonged exposure through inhalation. May cause

cancer by inhalation.

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.

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

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Prevent fire fighting water from

entering the 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. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area. On land, sweep or shovel into suitable containers.

### 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. Minimise generation of dust.

### 6.4. Reference to other sections

See Section 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 eves. 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

### **Rescobond MAXX (Mixture)**

No additional information available

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aluminium oxide, non-fibrous (1344-28-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1 mg/m³ respirable dust
Magnesium Oxide (1309-48-4)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	10 mg/m³ inhalable dust
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA [1]	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 OEL TWA	0.025 mg/m³ respirable dust
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA [1]	0.05 mg/m³ respirable dust
quartz (14808-60-7)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	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 [1]	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.	

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. Colour : Off-white Odour : Earthy odor 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 ≈ 2.7 Solubility

Solubility : Slightly soluble.
Partition coefficient n-octanol/water (Log Pow) : No data available

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Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: Not Applicable
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	<ul> <li>No data available</li> </ul>

### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1. 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.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 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 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 val 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

	·				
aluminium oxide, non-fibrous (1344-28-1)					
pH 9 – 10.5 (aqueous suspension, 33 %)					
Magnesium Oxide (1309-48-4)	Magnesium Oxide (1309-48-4)				
рН	11 (10 %)				
cristobalite (14464-46-1)					
рН	6 – 7				
quartz (14808-60-7)					
рН	6 – 7				
Serious eve damage/irritation	Causes eve irritation				

Serious eye damage/irritation : Causes eye irritation.

pH: ≈ 5.4

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

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pH   11 (10 %)  cristobalite (14464-46-1)  pH   6 - 7  quartz (14808-60-7)  pH   6 - 7  Respiratory or skin sensitisation   Not dassified   Germ cell mutagenicity   Not dassified   Garcinogenicity   Not dassified   STOT-single exposure   To - Carcinogenic to humans   STOT-single exposure   Not dassified   STOT-single exposure   Not dassified   STOT-single exposure   Not dassified   STOT-single exposure   Not dassified   Not applicable   STOT-single exposure   Not applicab	Magnesium Oxide (1309-48-4)	
pH   6 - 7  quartz (14808-60-7) pH   6 - 7  Respiratory or skin sensitisation : Not classified Germ call mutagenicity : Not classified Germ call mutagenicity : Not classified Germ call mutagenicity : May cause cancer (Inhalation).  quartz (14808-60-7)  IARC group   1 - Carcinogenic to humans Reproductive toxicity : Not classified STOT-repeated exposure : Not abasified Aspiration hazard : Not applicable Sulminium oxide, non-fibrous (1344-28-1) Viscosity, kinematic   Not applicable (solid)  Magnesium Oxide (1309-48-4) Viscosity, kinematic   Not applicable (solid)  Magnesium Oxide (1309-48-4) Viscosity, kinematic   Not applicable (solid)  Magnesium Oxide (applicable (solid)  Magnesium Oxide (applicable (solid)  Danger of serious damage to health by prolonged exposure through inhalation. Symptoms/effects after sinhalation : Danger of serious damage to health by prolonged exposure through inhalation. Symptoms/effects after expondate : Causes experimation.  SECTION 12: Ecological information  12.1 Toxicity  aluminium oxide, non-fibrous (1344-28-1) LG50 - Fish I1   > 100 mg/l (86 h, Salmo trutal, Literature study)  12.2. Persistence and degradability Responded MaXX (Mixture)  Persistence and degradability   Not applicable   Responded Resp	рН	11 (10 %)
Commonstration   Comm	cristobalite (14464-46-1)	
pH 6-7 Respiratory or skin sensitisation : Not dassified Germ cell mutagenicity : Not dassified Garcinogenicity : May cause cancer (inhalation).  Quartz (14808-60-7)  LARC group	рН	6 – 7
Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carrinogenicity : Not classified Carrinogenicity : Not classified Carrinogenicity : May cause cancer (inhalation).    Quartz (14808-60-7)	quartz (14808-60-7)	
Germ cell mutagenicity : Not classified Carcinogenicity : May cause cancer (Inhalation).    Quartz (14808-60-7)     IARC group	рН	6 – 7
Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-single exposure : Not classified STOT-single exposure : Not classified Aspiration hazard : Not classified Stotics, kinematic : Not classified Stotics, kinematic : Not classified Stotics, kinematic : Not applicable (solid) Stotics, kinematic : 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 skin irritation. Symptoms/effects after eye contact : Causes skin irritation.  SECTION 12: Ecological information 12.1. Toxicity aluminum oxide, non-fibrous (1344-28-1) LCS0 - Fish (1)	Germ cell mutagenicity :	Not classified
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Viscosity, kinematic Not applicable (solid)  Magnesium Oxide (1309-48-4)  Viscosity, kinematic Not applicable (solid)  Potential adverse human health effects and symptoms  Symptoms Symptoms Symptoms Symptoms Symptoms Symptoms Symptoms Symptoms Symptoms Symptoms Symptoms Symptoms Symptoms Symptoms Symptoms Symptoms Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after skin contact Causes skin irritation.  Symptoms/effects after skin contact Causes skin irritation.  Symptoms/effects after skin contact Causes skin irritation.  SECTION 12: Ecological information  12.1. Toxicity  aluminium oxide, non-fibrous (1344-28-1)  LCS0 - Fish [1] > 100 mg/l (96 h, Salmo trutta, Literature study)  12.2. Persistence and degradability  Rescobond MAXX (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  Persistence and degradability Not applicable  Chemical oxygen demand (COD) Not applicable  ThOD Not applicable  Persistence and degradability Not applicable  ThOD Not applicable  Persistence and degradability Not applicable  Chemical oxygen demand (COD) Not applicable  ThOD Not applicable  Persistence and degradability Mineral. Not applicable  ThOD Not applicable  ThOD Not applicable  Persistence and degradability Mineral. Not applicable  Chemical oxygen demand (COD) Not applicable  ThOD Not applicable  Persistence and degradability Mineral. Not applicable  Persistence and degradability Not applicable	STOT-single exposure : STOT-repeated exposure : Aspiration hazard : Viscosity, kinematic :	Not classified Not classified Not classified
Magnesium Oxide (1309-48-4)		Not applicable (solid)
Viscosity, kinematic  Potential adverse human health effects and symptoms Symptoms/effects after inhalation  Symptoms/effects after inhalation  Symptoms/effects after skin contact Symptoms/effects after eye contact  Symptoms/effects after inhalation  Symptoms/effects after eye contact		Not applicable (solid)
Potential adverse human health effects and symptoms Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after eye contact Symptoms/effects after eye contact Symptoms/effects after eye contact SECTION 12: Ecological information  12.1. Toxicity aluminium oxide, non-fibrous (1344-28-1) LC50 - Fish [1] EC50 - Crustacea [1] 1 > 100 mg/l (96 h, Salmo trutta, Literature study)  12.2. Persistence and degradability Rescobond MAXX (Mixture) Persistence and degradability Not established.  aluminium oxide, non-fibrous (1344-28-1) Persistence and degradability Not applicable Chemical oxygen demand (COD) Not applicable Magnesium Oxide (1309-48-4) Persistence and degradability Not applicable Chemical oxygen demand (COD) Not applicable ThOD Not applicable Chemical oxygen demand (COD) Not applicable ThOD Not applicable Chemical oxygen demand (COD) Not applicable ThOD Not applicable Persistence and degradability Not applicable Chemical oxygen demand (COD) Not applicable ThOD Not applicable Not applicable Not applicable Not applicable ThOD Not applicable		Not appliable (aglid)
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12.1. Toxicity   aluminium 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)	Symptoms/effects after inhalation : Symptoms/effects after skin contact :	cancer by inhalation. Causes skin irritation.
aluminium oxide, non-fibrous (1344-28-1)   LC50 - Fish [1]	SECTION 12: Ecological information	
LC50 - Fish [1]   > 100 mg/l (96 h, Salmo trutta, Literature study)	12.1. Toxicity	
EC50 - Crustacea [1]   > 100 mg/l (48 h, Daphnia magna, Literature study)   12.2. Persistence and degradability   Rescobond MAXX (Mixture)   Persistence and degradability   Not established.   aluminium oxide, non-fibrous (1344-28-1)   Persistence and degradability   Not applicable.     Chemical oxygen demand (COD)   Not applicable		
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Chemical oxygen demand (COD) Not applicable		
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12.3. Bioaccumulative potential			
Rescobond MAXX (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	No data available.		
quartz (14808-60-7)			
Bioaccumulative potential	No data available.		
12.4. Mobility in soil			
aluminium oxide, non-fibrous (1344-28-1)			
Surface tension	No data available in the literature		
Ecology - soil	No data available.		
Magnesium Oxide (1309-48-4)			
Surface tension	No data available in the literature		
Ecology - soil	No data available.		
cristobalite (14464-46-1)			
Ecology - soil	No data available.		
12.5. Other adverse effects			

### **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Effect on global warming

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

: None known

### **SECTION 14: Transport information**

In accordance with DOT / TDG / IMDG / IATA

**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

All components of this product are present and listed as Active 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.

### 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)

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cristo	halita	IAAAG	4 46 4
Cristo	ozilite	11440	4-40-1

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 MAXX (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

cristo	balite (	(144	64-46-	1)	)
110	) - I'C '	-		-	7

CHStobalite (17707-70-	1)				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk	Maximum allowable
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	level (NSRL)	dose level (MADL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity	Reproductive Toxicity		
		- Female	- Male		
Yes	No	No	No		

### quartz (14808-60-7)

quartz (1+000-00-1)					
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk	Maximum allowable
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	level (NSRL)	dose level (MADL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity	Reproductive Toxicity		
		- Female	- Male		
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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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 H-statements	
H315	Causes skin irritation.
H320	Causes eye irritation
H350	May cause cancer.

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.

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