

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: 07/31/2018

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Rescobond 90A
CAS-No. : Mixture
Product code : 1201

Other means of identification : Alumina 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

Serious eye damage/eye irritation Category 2B

H315

Causes skin irritation
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	75 – 95	Not classified
Mono-Magnesium Phosphate	(CAS-No.) 13092-66-5	5 – 10	Not classified
barium sulfate	(CAS-No.) 7727-43-7	1 – 5	Not classified
Magnesium Oxide	(CAS-No.) 1309-48-4	1 – 5	Not classified
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 : 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 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.

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 : 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

Protective equipment : Avoid creating or spreading dust.

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 : 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 : 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

.i. Control parameters					
Rescobond 90A (Mixture)					
No additional information available					
aluminium oxide, non-fibrous (1344-28-1)					
USA - ACGIH - Occupational Exposure Limits	USA - ACGIH - Occupational Exposure Limits				
ACGIH TWA (mg/m³) 1 mg/m³ respirable dust					
Magnesium Oxide (1309-48-4)	Magnesium Oxide (1309-48-4)				
USA - ACGIH - Occupational Exposure Limits					
ACGIH 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					
barium sulfate (7727-43-7)					
USA - ACGIH - Occupational Exposure Limits					
ACGIH TWA (mg/m³)	5 mg/m³ (Inhalable fraction. The value is for particulate matter containing no asbestos and < 1% crystalline silica)				

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cristobalite (14464-46-1)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (mg/m³)	0.025 mg/m³ respirable dust	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL (TWA) (mg/m³)	0.05 mg/m³ respirable dust	

8.2. **Appropriate engineering controls**

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

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

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties 9.1.

Physical state : Solid

Appearance Granular mixture.

Color white : Acid Odor Odor

Odor threshold : No data available рΗ : 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) : No data available Vapor pressure No data available Relative vapor density at 20 °C : No data available

Relative density : ≈ 2.8

: Slightly soluble. Solubility 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

Other information

No additional information available **SECTION 10: Stability and reactivity**

10.1. Reactivity

Hydraulic setting.

10.2. **Chemical stability**

Stable under normal conditions.

Possibility of hazardous reactions

No additional information available **Conditions to avoid**

No additional information available Incompatible materials

No additional information available

Hazardous decomposition products

No additional information available

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SECTION 11: Toxicological information	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)	45000 # 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 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)				
barium sulfate (7727-43-7)					
LD50 oral rat	> 5000 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value, Oral)				
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).				
Reproductive toxicity	: Not classified				
STOT-single exposure	: Not classified				
STOT-repeated exposure	: Not classified				
Aspiration hazard	: Not classified				
Viscosity, kinematic Symptoms/effects after inhalation	 No data available May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure 				
Symptoms/enects after inflatation	through inhalation.				
Symptoms/effects after skin contact	: Causes skin irritation.				
Symptoms/effects after eye contact	: Causes eye irritation.				
SECTION 12: Ecological information					
12.1. Toxicity					
barium sulfate (7727-43-7)	32 mg/l (48 h. Daphnia magna Barium ion)				
barium sulfate (7727-43-7) EC50 Daphnia 1	32 mg/l (48 h, Daphnia magna, Barium ion)				
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barium sulfate (7727-43-7) EC50 Daphnia 1 12.2. Persistence and degradability aluminium oxide, non-fibrous (1344-28-1) Persistence and degradability Chemical oxygen demand (COD) ThOD Magnesium Oxide (1309-48-4) Persistence and degradability Chemical oxygen demand (COD) ThOD barium sulfate (7727-43-7) Persistence and degradability Chemical oxygen demand (COD) ThOD BOD (% of ThOD) cristobalite (14464-46-1) Persistence and degradability Chemical oxygen demand (COD) ThOD BOD (% of ThOD) 12.3. Bioaccumulative potential aluminium oxide, non-fibrous (1344-28-1)	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Biodegradability: not applicable. Not applicable Not applicable				

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barium sulfate (7727-43-7)		
BCF fish 1	68.4 (Lepomis macrochirus, Fresh water, Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
cristobalite (14464-46-1)		
Bioaccumulative potential No data available.		

12.4. Mobility in soil

12.4. WODINLY III SON			
aluminium oxide, non-fibrous (1344-28-1)			
Ecology - soil No data available.			
Magnesium Oxide (1309-48-4)			
Ecology - soil	No data available.		
barium sulfate (7727-43-7)			
Ecology - soil	No (test) data on mobility of the substance available.		
cristobalite (14464-46-1)			

No data available.

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.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Ecology - soil

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 90A (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

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)

barium sulfate (7727-43-7)

Listed on the Canadian DSL (Domestic Substances List)

cristobalite (14464-46-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

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Rescobond 90A (Mixture)	
U.S California - Proposition 65 - Other information	This product contains crystalline silica, a chemical known to the state of California to cause cancer.

cristobalite (144	164-46-1)				
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		

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
barium sulfate (7727-43-7)	U.S New Jersey - Right to Know Hazardous Substance 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

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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