

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 7/12/2021 Revision date: 7/22/2024 Supersedes: 7/12/2021

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Rescobond 17HP

CAS-No. : Mixture Product code : 8606

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 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)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
cristobalite	CAS-No.: 14464-46-1	10 – 20	Carc. 1A, H350
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

Full text of hazard classes and H-statements: see section 16

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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.Causes skin irritation.Causes eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

Symptoms/effects after skin contact

Symptoms/effects after eye 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 : Fight fire with normal precautions from a reasonable distance.

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. 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. Do

not breathe dust. Avoid contact with skin and eyes.

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 17HP (Mixture)

No additional information available

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

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA 1 mg/m³ respirable dust

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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		
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 pr	otection:
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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:

Vapor pressure

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

Acid Odor Odor Odor threshold No data available No data available рΗ Melting point > 2000 °F Freezing point No data available Boiling point No data available No data available Flash point Relative evaporation rate (butyl acetate=1) No data available Flammability (solid, gas) Not flammable.

Relative density ≈ 1.6

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

9.2. Other information

Relative vapor density at 20°C

No additional information available

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No data available

No data available

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SECTION 10: Stability and reactivity 10.1. Reactivity Hydroduce setting 10.2. Chemical stability Stable under normal conditions of use. 10.3. Possibility of hazardous reactions Not estabilished. 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 information 11.2. Incompatible materials SECTION 11: Toxicological information 11. Information on toxicological information 12. Information on toxicological information 13. Not classified Acute toxicity (orema) Not deasified Experimental value, Oral, 14 day(s)) Magnesium Oxide (1309-48-4) LD50 demail rabbit	according to Federal Register / Vol. 77, No. 58 / Monday, March	h 26, 2012 / Rules and Regulations
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pH 11 (10 %) cristobalite (14464-46-1) pH 6 - 7 Serious eye damage/irritation : Causes eye irritation. aluminium oxide, non-fibrous (1344-28-1) pH 9 - 10.5 (aqueous suspension, 33 %) Magnesium Oxide (1309-48-4) pH 11 (10 %) cristobalite (14464-46-1) pH 6 - 7 Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Germ cell mutagenicity : May cause cancer (Inhalation). Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard :: Not classified	рН	9 – 10.5 (aqueous suspension, 33 %)
cristobalite (14464-46-1) pH	Magnesium Oxide (1309-48-4)	
pH 6-7 Serious eye damage/irritation : Causes eye irritation. aluminium oxide, non-fibrous (1344-28-1) pH 9-10.5 (aqueous suspension, 33 %) Magnesium Oxide (1309-48-4) pH 11 (10 %) cristobalite (14464-46-1) pH 6-7 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	рН	11 (10 %)
Serious eye damage/irritation : Causes eye irritation. aluminium oxide, non-fibrous (1344-28-1) pH	cristobalite (14464-46-1)	
aluminium oxide, non-fibrous (1344-28-1) pH	рН	6 – 7
pH 9 – 10.5 (aqueous suspension, 33 %) Magnesium Oxide (1309-48-4) pH 11 (10 %) cristobalite (14464-46-1) pH 6 – 7 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	Serious eye damage/irritation :	Causes eye irritation.
Magnesium Oxide (1309-48-4) pH	aluminium oxide, non-fibrous (1344-28-1)	
pH	рН	9 – 10.5 (aqueous suspension, 33 %)
cristobalite (14464-46-1) pH 6 – 7 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	Magnesium Oxide (1309-48-4)	
pH 6 - 7 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	рН	11 (10 %)
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	cristobalite (14464-46-1)	
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	рН	6 – 7
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	Respiratory or skin sensitization :	Not classified
Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified : Not classified	Germ cell mutagenicity :	
STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified Not classified		
STOT-repeated exposure : Not classified Aspiration hazard : Not classified		
Aspiration hazard : Not classified		
Viscosity, kinematic : Not Applicable		

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aluminium oxide, non-fibrous (1344-28-1)	
Viscosity, kinematic	Not applicable (solid)
Magnesium Oxide (1309-48-4)	
Viscosity, kinematic	Not applicable (solid)
	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 : Symptoms/effects after eye contact :	Causes skin irritation. Causes eye irritation.
	Causes eye iintation.
SECTION 12: Ecological information	
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)
12.2. Persistence and degradability	
Rescobond 17HP (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
Magnesium Oxide (1309-48-4)	
Persistence and degradability	Not applicable.
Chemical oxygen demand (COD) ThOD	Not applicable
	Not applicable
cristobalite (14464-46-1) Persistence and degradability	Minoral Not applicable
Chemical oxygen demand (COD)	Mineral. Not applicable. Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
Rescobond 17HP (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.
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	
Effect on the global warming :	None known
SECTION 13: Disposal considerations	
13.1. Disposal methods	
	Dispose in a safe manner in accordance with local/national regulations.
SECTION 14: Transport information	
La capacidad de suith DOT /TDO /IMDO /IATA	

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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

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)

cristobalite (14464-46-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

Rescobond 17HP (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 (14464-46-1)

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

SECTION 16: Other information

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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-phra	ISSS
H315	Causes skin irritation
H320	Causes eye irritation

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Full 1	text	of	H-i	ohr	ases
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H350 May cause cancer

Safety Data Sheet (SDS), USA
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