

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

ECTION 1: Identification			
1. Identification			
Product form	: Mixture		
Product name	: Rescobond 3000A		
CAS-No.	: Mixture		
Product code Other means of identification	: 1591 : Alumina-Silicate Chemically Bond	led Castable	
2. Recommended use and restrictions o			
Use of the substance/mixture	: Refractory		
Recommended use	: Industrial use		
3. Supplier			
Resco Products, Inc. One Robinson Plaza, Suite 300 6600 Steubenville Pike Pittsburgh, PA 15205 - United States 412-494-4491 <u>SDS@RescoProducts.com</u> - <u>WWW.RescoProdu</u>	<u>cts.com</u>		
.4. Emergency telephone number Emergency number	: EMERGENCY ONLY (CHEMTRE Outside USA & Canada +1 703-7		300-424-9300
ECTION 2: Hazard(s) identification		TI JƏI U	
1. Classification of the substance or mix	ture		
HS US classification Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2B Carcinogenicity Category 1A	H315 Causes skin irritation H320 Causes eye irritation H350 May cause cancer (Inhalation	n)	
ull text of H statements : see section 16			
.2. GHS Label elements, including preca	utionary statements		
HS US labeling Hazard pictograms (GHS US)			
Signal word (GHS US) Hazard statements (GHS US)	: Danger : H315 - Causes skin irritation H320 - Causes eye irritation	tion)	
Precautionary statements (GHS US)	 H350 - May cause cancer (Inhala P280 - Wear eye protection, Dusi P305+P351+P338 - IF IN EYES: contact lenses, if present and eas P332+P313 - If skin irritation occu P337+P313 - If eye irritation pers P260 - Do not breathe dust. 	respirator, protective of Rinse cautiously with v by to do. Continue rinsi urs: Get medical advice	vater for several minutes. Remove ng. a/attention.
3. Other hazards which do not result in (
o additional information available			
.4. Unknown acute toxicity (GHS US)			
ot applicable			
ECTION 3: Composition/Information	on ingredients		
1. Substances			
ot applicable			
2. Mixtures			
Name	Product identifier	%	GHS US classification
aluminium oxide, non-fibrous	(CAS-No.) 1344-28-1	10 - 20	Not classified
	(CAS-No.) 13092-66-5		Not classified
Mono-Magnesium Phosphate	,	5 – 10	
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
Ill text of hazard classes and H-statements : see	section 16		· · · · · · · · · · · · · · · · · · ·
ECTION 4: First-aid measures			
1. Description of first aid measures			
First-aid measures general	: Never give anything by mouth to advice (show the label where pos		n. If you feel unwell, seek medical
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First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
	: 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
First-aid measures after ingestion	and easy to do. Continue rinsing. : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effects	
	: 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.
	Causes eye irritation.
4.3. Immediate medical attention and speci	
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	
	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media 5.2. Specific hazards arising from the chem	: In case of fire, all extinguishing media allowed.
	: Not flammable.
5.3. Special protective equipment and prec	
Firefighting instructions	Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering
Protection during firefighting	environment. : Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measure	
6.1. Personal precautions, protective equip 6.1.1. For non-emergency personnel	ment and emergency procedures
	: Do not breathe dust.
6.1.2. For emergency responders	
Protective equipment	Equip cleanup crew with proper protection.
	: Ventilate area.
6.2. Environmental precautions Prevent entry to sewers and public waters.	
6.3. Methods and material for containment	and cleaning up
	: On land, sweep or shovel into suitable containers. Minimize generation of dust.
6.4. Reference to other sections	
6.4. Reference to other sections See Heading 8. Exposure controls and personal pro	
6.4. Reference to other sections See Heading 8. Exposure controls and personal pro SECTION 7: Handling and storage	
6.4. Reference to other sections See Heading 8. Exposure controls and personal pro SECTION 7: Handling and storage 7.1. Precautions for safe handling	tection.
6.4. Reference to other sections See Heading 8. Exposure controls and personal pro SECTION 7: Handling and storage 7.1. Precautions for safe handling	tection. : Do not handle until all safety precautions have been read and understood. Avoid raising dust.
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USA - OSHA - Occupational Exposure Limits	3			
OSHA PEL (TWA) (mg/m³)	0.05 mg/m ³ respirable dust			
quartz (14808-60-7)				
USA - ACGIH - Occupational Exposure Limit	S			
ACGIH TWA (mg/m³)	0.025 mg/m ³ (Silica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)			
USA - OSHA - Occupational Exposure Limits	3			
Local name	Silica, crystalline quartz, respirable dust			
OSHA PEL (TWA) (mg/m³)	0.05 mg/m ³ respirable dust			
Remark (OSHA)	(3) See Table Z-3.			
Appropriate engineering controls Appropriate engineering controls Individual protection measures/Perso Personal protective equipment: Avoid all unnecessary exposure.	: Provide adequate ventilation to minimize dust concentrations. nal protective equipment			
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.				
ECTION 9: Physical and chemical pr	operties			
1. Information on basic physical and che	emical properties			
Physical state	: Solid			
Appearance	: Granular mixture.			
Color	: Gray			
Ddor	: Acid Odor			
Odor threshold	: Not applicable			
bH	: No data available			
Melting point	: > 2000 °F			
Freezing point	: Not applicable			
Boiling point	: Not applicable			
Critical temperature Flash point	: Not applicable : Not applicable			
Relative evaporation rate (butyl acetate=1)	: Not applicable			
Relative evaporation rate (ether=1) Flammability (solid, gas)	: Not applicable : Non flammable.			
Vapor pressure	: No data available			
Vapor pressure at 50 °C Relative vapor density at 20 °C	: Not Applicable : 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			
/iscosity, kinematic /iscosity, dynamic	: No data available : No data available			
Explosion limits	: Not applicable			
Explosive properties				
Explosive properties Oxidizing properties	: No data available			

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SECTION 40. Stability and recetivity	
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) Acute toxicity (inhalation)	: Not classified : Not classified
aluminium oxide, non-fibrous (1344-28-1)	
	15000 mg//g hady weight (Equivalent or similar to OECD 401. Dat. Mala / famale
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 eve 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 : No data available
Viscosity, kinematic 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.
	: Causes eye irritation.
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
Rescobond 3000A (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)	Not applicable
ThOD	Not applicable
cristobalite (14464-46-1)	
Persistence and degradability	Mineral. Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
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cristobalite (14464-46	-1)			
BOD (% of ThOD)		Not applicable		
quartz (14808-60-7)				
Persistence and degra	dability	Not applicable.		
Biochemical oxygen de	emand (BOD)	Not applicable		
Chemical oxygen dema	and (COD)	Not applicable		
ThOD		Not applicable		
12.3. Bioaccumulati	ve potential			
Rescobond 3000A (M				
Bioaccumulative poten	tial	Not established.		
aluminium oxide, nor	fibrous (1311-28-1)			
Bioaccumulative poten		No data available.		
· · ·				
Magnesium Oxide (13	•			
Bioaccumulative poten	tial	No bioaccumulation data available.		
cristobalite (14464-46	-1)			
Bioaccumulative poten	•	No data available.		
guartz (14808-60-7)				
Bioaccumulative poten	tial	No data available.		
12.4. Mobility in soil				
aluminium oxide, nor	1-110rous (1344-20-1)	Ne dete queileble		
Ecology - soil		No data available.		
Magnesium Oxide (13	809-48-4)			
Ecology - soil		No data available.		
cristobalite (14464-46	-1)			
Ecology - soil		No data available.		
12.5. Other adverse	effects			
Effect on the global warr		None known		
SECTION 13: Dispo	sal considerations			
13.1. Disposal metho	ods			
Product/Packaging dispo	sal recommendations	Dispose in a safe manner in accordance with local/national regulations.		
Ecology - waste materia		: Avoid release to the environment.		
SECTION 14: Trans	port information			
Department of Transport	ortation (DOT)			
Not regulated				
Transportation of Dang	jerous Goods			
Not regulated				
Transport by sea				
Not regulated				
Air transport				
Not regulated				
SECTION 15: Regul	atory information			
15.1. US Federal regulat				
Rescobond 3000A (M				
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, nor	aluminium oxide, non-fibrous (1344-28-1)			
Not subject to reporting	Not subject to reporting requirements of the United States SARA Section 313			
15.2. International regulations				
CANADA				
aluminium oxide, non-fibrous (1344-28-1)				
Listed on the Canadian DSL (Domestic Substances List)				

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Magnesium Ox						
Listed on the Canadian DSL (Domestic Substances List)						
Mono-Magnesium Phosphate (13092-66-5)						
Listed on the Ca	nadian NDSL (Non-D	omestic Sub	stances L	ist)		
cristobalite (14	464-46-1)					
Listed on the Canadian DSL (Domestic Substances List)						
J-Regulations	and an an all all the					
additional inforn						
quartz (14808-6						
Listed on IARC	(International Agency	for Research	n on Canc	er)		
.3. US State reg	ulations					
Rescobond 300	. ,					
					lica, a chemical known to the	
				ancer. For more information	on go to WWW.P65Warnings.	ca.gov
cristobalite (14						
U.S California -	U.S California - Proposition 65 -	U.S Calit Propositior		U.S California - Proposition 65 -	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Proposition 65	Developmental	Reproduct		Reproductive Toxicity	(NORE)	
- Carcinogens	Toxicity	Toxicity - F		- Male		
List		.				
Yes	No	No		No		
quartz (14808-6					1	
U.S California -	U.S California - Proposition 65 -	U.S Calif Propositior		U.S California - Proposition 65 -	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Proposition 65	Developmental	Reproduct		Reproductive Toxicity	(NORL)	
- Carcinogens	Toxicity	Toxicity - F	emale	- Male		
List						
Yes	No	No		No		
Component				State or local regulations		
aluminium oxide, non-fibrous (1344-28-1) Magnesium Oxide (1309-48-4) Cristobalite (14464-46-1) Quartz (14808-60-7)				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		
				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		
				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		
				U.S New Jersey - Right to Know Hazardous Substance List		
ECTION 16: C	Other information	n				

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
31	IS (GHS HazCom 2012)	

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.