

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/15/2015 Revision date: 8/2/2024 Supersedes: 7/19/2021

SECTION 1: Identification		
1.1. Identification		
Product form Product name CAS-No. Product code Other means of identification	: Mixture : Rescocast 3E : Mixture : 0328 : Alumina-Silicate Cement Bonded Castable	
1.2. Recommended use and restrictions on		
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 <u>SDS@RescoProducts.com</u> - <u>WWW.RescoProducts.</u>	<u>com</u>	
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 mixt		
GHS US classification		
Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2B Carcinogenicity Category 1A Full text of H statements : see section 16	H315Causes skin irritationH320Causes eye irritationH350May cause cancer (Inhalation)	
2.2. GHS Label elements, including precau	tionary statements	
GHS US labeling Hazard pictograms (GHS US) Signal word (GHS US) Hazard statements (GHS US)	: Danger : H315 - Causes skin irritation H320 - Causes eye irritation	
 H350 - May cause cancer (Inhalation) 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 c	assification	
No additional information available		
2.4. Unknown acute toxicity (GHS US)		
No additional information available		
SECTION 3: Composition/Information of	on ingredients	
3.1. Substances		
Not applicable		
3.2. Mixtures		
	Product identifier % GHS US classification	
Name		
Name Calcium Aluminate Cement	CAS-No.: 65997-16-2 50 – 75 Skin Irrit. 2, H315	
	CAS-No.: 65997-16-2 50 – 75 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 CAS-No.: 14464-46-1 10 – 20 Carc. 1A, H350	

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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 First-aid measures after eye contact	 Gently wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present
Thist-alu measures and eye contact	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	
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 spec	ial treatment, if necessary
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	g media
Suitable extinguishing media Unsuitable extinguishing media	 Use extinguishing media appropriate for surrounding fire. In case of fire, all extinguishing media allowed.
5.2. Specific hazards arising from the chem	
Fire hazard	: Not flammable.
5.3. Special protective equipment and prec	cautions for fire-fighters
Firefighting instructions Protection during firefighting	 Fight fire with normal precautions from a reasonable distance. Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measu	
6.1. Personal precautions, protective equip	oment 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 pro	otection.
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.
Hygiene measures	 Avoid contact with skin and eyes. Do not breathe dust. 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	• •
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/person	al protection
8.1. Control parameters	
Rescocast 3E (Mixture)	
No additional information available	
Calcium Aluminate Cement (65997-16-2) No additional information available	

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cristobalite (14464-46-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.025 mg/m ³ respirable dust
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [1]	0.05 mg/m ³ respirable dust
quartz (14808-60-7)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	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	
	Silica, crystalline quartz, respirable dust
OSHA PEL (TWA) [1]	0.05 mg/m ³ respirable dust
Remark (OSHA)	(3) See Table Z-3.
8.2. Appropriate engineering controls	
	: Provide adequate ventilation to minimize dust concentrations.
8.3. Individual protection measures/Persona	I 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 prop	perties
9.1. Information on basic physical and chem	ical properties
Physical state	: Solid
Appearance	: Granular mixture.
Color Odor	: brown : earthy
Odor threshold	: No data available
pH	: ≈ 10.5
1	: 10%
1	: > 2000 °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)	: Not flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C Relative density	: No data available : ≈ 1.4
Solubility	: Slightly soluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: Not Applicable
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	

No additional information available

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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	
	Not classified
Acute toxicity (dermal) : Acute toxicity (inhalation) :	Not classified Not classified
	Causes skin irritation.
	pH: ≈ 10.5
Calcium Aluminate Cement (65997-16-2)	
рН	≤ 13
cristobalite (14464-46-1)	
pH	6-7
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quartz (14808-60-7)	
pH	6-7
Serious eye damage/irritation :	Causes eye irritation. pH: ≈ 10.5
Calcium Aluminate Cement (65997-16-2)	
рН	≤ 13
cristobalite (14464-46-1)	
рН	6 - 7
quartz (14808-60-7)	
pH	6-7
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 :	Not Applicable
Potential Adverse human health effects and : symptoms	Danger of serious damage to health by prolonged exposure through inhalation.
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.

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SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
Rescocast 3E (Mixture)	
Persistence and degradability	Not established.
cristobalite (14464-46-1)	
Persistence and degradability	Mineral. Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD BOD (% of ThOD)	Not applicable
	Not applicable
quartz (14808-60-7) Persistence and degradability	Natangliaghla
Biochemical oxygen demand (BOD)	Not applicable. Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
12.3. Bioaccumulative potential	
Rescocast 3E (Mixture)	
Bioaccumulative potential	Not established.
cristobalite (14464-46-1)	
Bioaccumulative potential	No data available.
quartz (14808-60-7)	
Bioaccumulative potential	No data available.
12.4. Mobility in soil	
cristobalite (14464-46-1)	
Ecology - soil	No data available.
12.5. Other adverse effects	
Effect on the global warming :	None known
Other information :	No other effects known.
SECTION 13: Disposal considerations	
13.1. Disposal methods	
Product/Packaging disposal recommendations :	Dispose in a safe manner in accordance with local/national regulations.
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 (TSCA) inventory	s Active on the United States Environmental Protection Agency Toxic Substances Control Act
15.2. International regulations	
CANADA Calcium Aluminate Cement (65997-16-2)	
Listed on the Canadian DSL (Domestic Substances Lis	t)
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cristobalite (14464-	-46-1)				
Listed on the Canadiar	n DSL (Domestic Substances Li	st)			
EU-Regulations No additional informatio National regulations	n available				
quartz (14808-60-7))				
Listed on IARC (Interna	ational Agency for Research on	Cancer)			
15.3. US State regu	lations				
Rescocast 3E (Mixt	ture)				
J.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			of California to cause		
cristobalite (14464-	-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		
auert= (14000 C0 7)					
quartz (14808-60-7) 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)
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Component		State or local regulations	
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	7) U.S New Jersey - Right to Know Hazardous Substance List		
SECTION 16: Other information			
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations			
Revision date	:	8/2/2024	
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		

No

No

H315	Causes skin irritation
H320	Causes eye irritation
H350	May cause cancer
Safety Data Sheet (SDS) 1154	

Safety Data Sheet (SDS), USA

No

Yes

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.