

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: 8/5/2024 Supersedes: 7/19/2021

SECTION 1: Identification				
1.1. Identification				
Product form Product name CAS-No. Product code Other means of identification	 Mixture Rescocast 9LI-SW Mixture 0340 Alumina-Silicate Cement Bonded Castable 			
1.2. Recommended use and restrictions of				
Jse 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 mix	ture			
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) Precautionary 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 o	lassification			
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			
Calcium Aluminate Cement	CAS-No.: 65997-16-2 20 – 50 Skin Irrit. 2, H315 Eye Irrit. 2B, H320			
cristobalite	CAS-No.: 14464-46-1 20 – 50 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
First-aid measures after inhalation	(show the label where possible).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
First aid massures ofter ingestion	and easy to do. Continue rinsing.
First-aid measures after ingestion 4.2. Most important symptoms and effects (: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
Potential Adverse human health effects and	: Danger of serious damage to health by prolonged exposure through inhalation.
symptoms	. Danger of senous damage to health by profonged exposure through initialation.
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 specia	al treatment, if necessary
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	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 preca	
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 measur	es
6.1. Personal precautions, protective equip	ment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures 6.1.2. For emergency responders	: Do not breathe dust. Avoid contact with skin and eyes.
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 a	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 prot	ection.
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
7.2. Conditions for sofe storage including	smoking and when leaving work.
7.2. Conditions for safe storage, including a 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/persona	al protection
8.1. Control parameters	
Rescocast 9LI-SW (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	
Local name	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.
Appearance Color	: Granular mixture. : brown
Appearance Color Odor	: Granular mixture. : brown : earthy
Appearance Color Odor Odor threshold	: Granular mixture. : brown : earthy : No data available
Appearance Color Odor Odor threshold pH	 Granular mixture. brown earthy No data available ≈ 10.5
Appearance Color Odor Odor threshold pH pH solution concentration	 Granular mixture. brown earthy No data available ≈ 10.5 10 %
Appearance Color Odor Odor threshold pH pH solution concentration Melting point	 Granular mixture. brown earthy No data available ≈ 10.5
Appearance Color Odor Odor threshold pH pH solution concentration	 Granular mixture. brown earthy No data available ≈ 10.5 10 % > 2000 °F
Appearance Color Odor Odor threshold pH pH solution concentration Melting point Freezing point	 Granular mixture. brown earthy No data available ≈ 10.5 10 % > 2000 °F No data available
Appearance Color Odor Odor threshold pH pH solution concentration Melting point Freezing point Boiling point Flash point Relative evaporation rate (butyl acetate=1)	 Granular mixture. brown earthy No data available ≈ 10.5 10 % > 2000 °F No data available
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Appearance Color Odor Odor threshold pH pH solution concentration Melting point Freezing point Boiling point Flash point Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) Vapor pressure Relative vapor density at 20°C Relative density Solubility Partition coefficient n-octanol/water (Log Pow) Auto-ignition temperature	: Granular mixture. : brown : earthy : No data available : ≈ 10.5 : 10 % : > 2000 °F : No data available : No data available
Appearance Color Odor Odor threshold pH pH solution concentration Melting point Freezing point Boiling point Flash point Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) Vapor pressure Relative vapor density at 20°C Relative density Solubility Partition coefficient n-octanol/water (Log Pow) Auto-ignition temperature Decomposition temperature	Granular mixture.brownearthyNo data available ≈ 10.5 10 %> 2000 °FNo data availableNo data availableNo data availableNo data availableNo data availableNo data availableNo data availableSlightly soluble.No data availableNo data available
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Appearance Color Odor Odor threshold pH pH solution concentration Melting point Freezing point Boiling point Flash point Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) Vapor pressure Relative vapor density at 20°C Relative density Solubility Partition coefficient n-octanol/water (Log Pow) Auto-ignition temperature Decomposition temperature Viscosity, kinematic Viscosity, dynamic Explosion limits Explosive properties	Granular mixture.brownearthyNo data available ≈ 10.5 10 %> 2000 °FNo data availableNo data availableNo data availableNo data availableNo data availableNo data availableNo data availableSlightly soluble.No data availableNo data available
Appearance Color Odor Odor threshold pH pH solution concentration Melting point Freezing point Boiling point Flash point Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) Vapor pressure Relative vapor density at 20°C Relative density Solubility Partition coefficient n-octanol/water (Log Pow) Auto-ignition temperature Decomposition temperature Viscosity, kinematic Viscosity, dynamic Explosion limits Explosive properties	Granular mixture. $:$ brown $:$ earthy $:$ No data available $: \approx 10.5$ $: 10 \%$ $: > 2000 °F$ $:$ No data available

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)	
pH	≤ 13
cristobalite (14464-46-1)	
pH	6 - 7
•	
quartz (14808-60-7)	T
рН	6-7
Serious eye damage/irritation :	Causes eye irritation. pH: ≈ 10.5
Calcium Aluminate Cement (65997-16-2)	
pH	≤ 13
• •	- 10
cristobalite (14464-46-1)	
pH	6 - 7
quartz (14808-60-7)	
рН	6 – 7
	Not classified
Germ cell mutagenicity :	Not classified
	May cause cancer (Inhalation).
quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans
	Not classified
STOT-single exposure :	Not classified
STOT-repeated exposure : Aspiration hazard :	Not classified Not classified
Viscosity, kinematic :	Not Applicable
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.

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SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
Rescocast 9LI-SW (Mixture)	
Persistence and degradability	Not established.
cristobalite (14464-46-1)	
Persistence and degradability	Mineral. Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
quartz (14808-60-7)	
Persistence and degradability	Not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
12.3. Bioaccumulative potential	
Rescocast 9LI-SW (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	
5	None known No other effects known.
SECTION 13: Disposal considerations	
13.1. Disposal methods	
	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	

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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

15.2. International regulations

CANADA

Calcium Aluminate Cement (65997-16-2)

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

quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

Rescocast 9LI-SW (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 - 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		

quartz (14808-60-7)					
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
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	
according to Federal Register / Vol. 77, No. 58 /	Monday, March 26, 2012 / Rules and Regulations
Revision date	: 8/5/2024
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

 H320
 Causes eye irritation

 H350
 May cause cancer

Safety Data Sheet (SDS), USA

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