

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 8/16/2017 Revision date: 8/7/2024 Supersedes: 7/28/2021

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Rescocast 110PC
CAS-No.	: Mixture
Product code	: 1620
Other means of identification	: Alumina-Silicate Cement Bonded Castable
I.2. Recommended use and restrictions of the substance (minute)	
Jse of the substance/mixture Recommended use	: Refractory : Industrial use
1.3. Supplier	
Manufacturer Resco Products, Inc. One Robinson Plaza, Suite 300 5600 Steubenville Pike Pittsburgh, PA, 15205 Jnited States F 412-494-4491 <u>SDS@RescoProducts.com</u> - <u>WWW.RescoProduc</u>	<u>ts.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 mi	xture
GHS US classification	
Skin corrosion/irritation Category 2	H315 Causes skin irritation
Serious eye damage/eye irritation Category 2B	H320 Causes eye irritation H350 May cause cancer (Inhalation)
Carcinogenicity Category 1A Full text of H statements : see section 16	11550 IVIAY CAUSE CATICET (TITIAIAUUTI)
2.2. GHS Label elements, including preca	utionary 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
Precautionary statements (GHS US)	 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	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
Calcium Aluminate Cement	CAS-No.: 65997-16-2 20 – 50 Skin Irrit. 2, H315 Eye Irrit. 2B, H320
	CAS-No.: 14464-46-1 20 – 50 Carc. 1A, H350
cristobalite	
cristobalite aluminium oxide, non-fibrous	CAS-No.: 1344-28-1 10 – 20 Not classified

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Name		Product identifier	%	GHS US classification
quartz		CAS-No.: 14808-60-7	1 – 5	Carc. 1A, H350
Full text of hazard classes and H-statements : see see	ction 16			
SECTION 4: First-aid measures				
4.1. Description of first aid measures				
-	(show the label whe	ere possible).		you feel unwell, seek medical advice
First-aid measures after inhalation First-aid measures after skin contact	: Allow affected pers	on to breathe fresh air. A	llow the victim	to rest.
	: Gently wash with plenty of soap and water. : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present			
	and easy to do. Continue rinsing. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.			
			ain emergency	medical attention.
4.2. Most important symptoms and effects (a Potential Adverse human health effects and		amage to health by prolo	and avpacur	a through inholation
symptoms	. Danger of senous c	amage to health by prot	onged exposure	
			onged exposure	e through inhalation. May cause
Symptoms/effects after skin contact	cancer by inhalation : Causes skin irritation			
	: Causes eye irritatio			
4.3. Immediate medical attention and specia				
No additional information available		-		
SECTION 5: Fire-fighting measures				
5.1. Suitable (and unsuitable) extinguishing	media			
		nedia appropriate for sur xtinguishing media allow		
5.2. Specific hazards arising from the chemi	cal			
Fire hazard	: Not flammable.			
5.3. Special protective equipment and preca	utions for fire-figh	ters		
Firefighting instructions	: Fight fire with norm entering environme		asonable distan	ce. Prevent fire-fighting water from
Protection during firefighting			ive equipment,	including respiratory protection.
SECTION 6: Accidental release measure	es			
6.1. Personal precautions, protective equipn	nent and emergen	cy procedures		
6.1.1. For non-emergency personnel	-			
Emergency procedures 6.1.2. For emergency responders	: Do not breathe dus	t. Avoid contact with skin	and eyes.	
Protective equipment	: Equip cleanup crew	with proper protection.		
	: Ventilate area. On I	and, sweep or shovel int	o suitable conta	ainers.
6.2. Environmental precautions				
Prevent entry to sewers and public waters.				
6.3. Methods and material for containment a	· · ·	1 11 4 15 15		
	: On land, sweep or	shovel into suitable conta	ainers. Minimize	e generation of dust.
6.4. Reference to other sections	ation			
See Heading 8. Exposure controls and personal prote				
SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
-	Avoid contact with	skin and eyes. Do not bre ther exposed areas with r	eathe dust.	nd understood. Avoid raising dust. water before eating, drinking or
7.2. Conditions for safe storage, including a	-			
		n a dry location where it o	can be protecte	d from the elements.
	: Strong bases. Stron			-
SECTION 8: Exposure controls/persona	l protection			
8.1. Control parameters				

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Rescocast 110PC (Mixture)	
No additional information available	
Calcium Aluminate Cement (65997-16-2)	
No additional information available	
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
aluminium oxide, non-fibrous (1344-28-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1 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/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	
Other information:	
Do not eat, drink or smoke during use. SECTION 9: Physical and chemical prope	artias
9.1. Information on basic physical and chemic	cal properties
	Solid
Appearance :	Granular mixture.
Color :	light brown
Odor : Odor threshold :	earthy No data available
pH :	≈ 10.5
pH solution concentration :	10 %
Melting point :	> 2500 °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.
Vapor pressure	No data available
Relative vapor density at 20°C	No data available
Relative density :	≈2.1 Olishiharah his
Solubility :	Slightly soluble.
Partition coefficient n-octanol/water (Log Pow) : Auto-ignition temperature :	No data available No data available
Decomposition temperature :	No data available
	Not Applicable

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Viscosity, dynamic :	No data available
Explosion limits :	No data available
	No data available No data available
9.2. Other information	
No additional information available	
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 Not classified
	Not classified
aluminium oxide, non-fibrous (1344-28-1)	
LD50 oral rat	> 15900 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LC50 Inhalation - Rat	> 2.3 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))
Skin corrosion/irritation :	Causes skin irritation. pH: ≈ 10.5
Calcium Aluminate Cement (65997-16-2)	
рН	≤ 13
cristobalite (14464-46-1)	
рН	6 - 7
aluminium oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)
quartz (14808-60-7)	
рН	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
aluminium oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)

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quartz (14808-60-7)	
pH	6 – 7
Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	 Not classified Not classified May cause cancer (Inhalation).
quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans
Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard Viscosity, kinematic	 Not classified Not classified Not classified Not classified Not Applicable
aluminium oxide, non-fibrous (1344-28-1)	
Viscosity, kinematic	Not applicable (solid)
symptoms Symptoms/effects after inhalation Symptoms/effects after skin contact	 Danger of serious damage to health by prolonged exposure through inhalation. Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation. Causes skin irritation. Causes eye irritation.
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	
Rescocast 110PC (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
aluminium oxide, non-fibrous (1344-28-1)	
Persistence and degradability	Not applicable.
Chemical oxygen demand (COD)	Not applicable
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 110PC (Mixture)	
Bioaccumulative potential	Not established.

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cristobalite (14464-46-1)	
Bioaccumulative potential	No data available.
aluminium oxide, non-fibrous (134	44-28-1)
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.
aluminium oxide, non-fibrous (134	44-28-1)
Surface tension	No data available in the literature
Ecology - soil	No data available.
12.5. Other adverse effects	
Effect on the global warming	: None known
SECTION 13: Disposal conside	rations
13.1. Disposal methods	
Product/Packaging disposal recommenda SECTION 14: Transport inform	
In accordance with DOT Not regulated Transportation of Dangerous Goods Not regulated Transport by sea Not regulated Air transport Not regulated	
SECTION 15: Regulatory inform	nation
15.1. US Federal regulations	
All components of this product are prese (TSCA) inventory	nt and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act
aluminium oxide, non-fibrous (134	44-28-1)
Not subject to reporting requirements of	
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	
Calcium Aluminate Cement (6599)	7-16-2)
Listed on the Canadian DSL (Domestic S	Substances List)
cristobalite (14464-46-1)	
Listed on the Canadian DSL (Domestic S	Substances List)
aluminium oxide, non-fibrous (134	14.28.1)
Listed on the Canadian DSL (Domestic S	

Listed on the Canadian DSL (Domestic Substances List)

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EU-Reg	ulations	

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 110PC (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		

quartz (14808-60-7)					
U.S California - Proposition 65 - Carcinogens List	Proposition 65 -	Proposition 65 -	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
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
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
Quartz (14808-60-7)	U.S New Jersey - Right to Know Hazardous Substance List
SECTION 16: Other information	

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Revision date Other information 8/7/2024

 Report language name. English. In the event of any conflict between English and other language versions, the English version shall prevail.

H315 Causes skin irritation	
H320 Causes eye irritation	
H350 May cause cancer	

Safety Data Sheet (SDS), USA

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