

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 10/12/2022 Revision date: 10/12/2022 Supersedes: 9/29/2020

SECTION 1: Identification				
1.1. Identification				
Product form Product name CAS-No. Product code Other means of identification	 Mixture EZ Cubed 3000 Mixture 1668 Alumina-Silicate Cement Bonded Castable 			
1.2. Recommended use and restrictions or				
Use of the substance/mixture Recommended use	: Refractory : Industrial use			
1.3. 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.RescoProducts</u>	.com			
1.4. Emergency telephone number				
Emergency number		Y (CHEMTREC) USA & ada +1 703-741-5970	Canada 1-800-	424-9300
SECTION 2: Hazard(s) identification		aua +1 103-141-3910		
2.1. Classification of the substance or mixe	ure			
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	H31 H32 H35	20 Causes eye		on)
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 c	lassification			
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/Information	on ingredients			
3.1. Substances				
Not applicable 3.2. Mixtures				
		Product identifier	0/	CHS US classification
Name cristobalite		Product identifier CAS-No.: 14464-46-1	<mark>%</mark> 10 – 20	GHS US classification Carc. 1A, H350
aluminium oxide, non-fibrous		CAS-No.: 1344-28-1	5 – 10	Not classified
Calcium Aluminate Cement			5 – 10	Skin Irrit. 2, H315 Eye Irrit. 2B, H320
quartz		CAS-No.: 14808-60-7	0.1 – 0.5	Carc. 1A, H350
10/12/2022 (Povinion data)				

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Full text of hazard classes and H-statements : see sec	ction 16
SECTION 4: First-aid measures	
4.1. Description of first aid measures	
	: 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 skin contact	 Allow affected person to breathe fresh air. Allow the victim to rest. Wash with plenty of soap and water. Wash contaminated clothing before reuse. 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.
4.2. Most important symptoms and effects (a	
symptoms	: Based on available data, the classification criteria are not met.
	: May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation.
	Causes skin irritation.
Symptoms/effects after eye contact 4.3. Immediate medical attention and special	: Causes eye irritation.
A.S. Infinediate medical attention and special No additional information available	racament, in necessary
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	modia
. , , , , ,	: 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 chemic	
	: Not flammable.
5.3. Special protective equipment and preca	
	 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 measure	
6.1. Personal precautions, protective equipm	nent and emergency procedures
6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders	: Do not breathe dust.
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 a	nd 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 prote	ction.
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. Avoid contact with skin and eyes. Do not breathe dust.
	Avoid contact with skin and eves. Do not breathe dust
Hygiene measures	 Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Hygiene measures 7.2. Conditions for safe storage, including an	: 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 an Storage conditions	: 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 an Storage conditions	 Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. ny incompatibilities Store this product in a dry location where it can be protected from the elements. Strong bases. Strong acids.
7.2. Conditions for safe storage, including an Storage conditions Incompatible products	 Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. ny incompatibilities Store this product in a dry location where it can be protected from the elements. Strong bases. Strong acids.
7.2. Conditions for safe storage, including an Storage conditions Incompatible products SECTION 8: Exposure controls/persona	 Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. ny incompatibilities Store this product in a dry location where it can be protected from the elements. Strong bases. Strong acids.

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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 Personal protective equipment:	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	erties
9.1. Information on basic physical and chemic	
,	Solid Granular mixture.
Color : Odor :	Gray earthy
Odor threshold :	No data available
pH : Melting point :	No data available > 2000 °F
Freezing point :	Not applicable
Boiling point :	Not applicable
Critical temperature : Flash point :	Not applicable Not applicable
Relative evaporation rate (butyl acetate=1) : Flammability (solid, gas) :	No data available Non flammable.

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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	 No data available No data available 2 - 3 Slightly soluble. No data available Not applicable Not Applicable 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	
Acute toxicity (dermal)	: 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.
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.
Calcium Aluminate Cement (65997-16-2)	
рН	≤ 13

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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		
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		
STOT-single exposure:STOT-repeated exposure:Aspiration hazard:	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 :	Based on available data, the classification criteria are not met. May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation. Causes skin irritation. Causes eye irritation.		
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			
EZ Cubed 3000 (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		

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quartz (14808-60-7)		
ThOD	Not applicable	
12.3. Bioaccumulative potential		
EZ Cubed 3000 (Mixture)		
Bioaccumulative potential	Not established.	
cristobalite (14464-46-1)		
Bioaccumulative potential	No data available.	
aluminium oxide, non-fibrous (1344-28-1)		
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 (1344-28-1)		
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 considerations		
13.1. Disposal methods		
	Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.	
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 Net regulated		
Not regulated SECTION 15: Regulatory information		
15.1. US Federal regulations		
	s Active on the United States Environmental Protection Agency Toxic Substances Control Act	
aluminium oxide, non-fibrous (1344-28-1)		
Note subject to reporting requirements of the United States SARA Section 313 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 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 Lis	t)	

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Calcium Aluminate	Cement (65997-16-2)				
aluminium oxide, n	on-fibrous (1344-28-1)				
Listed on the Canadian	DSL (Domestic Substances Li	st)			
EU-Regulations No additional information National regulations	n available				
quartz (14808-60-7)					
Listed on IARC (Interna	ational Agency for Research on	Cancer)			
15.3. US State regul	ations				
EZ Cubed 3000 (Mix	xture)				
	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> </u>	
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	- Female No	- Male No		
quartz (14808-60-7)	INO	NU	INU		
U.S California -	U.S California -	U.S California -	U.S California -	Nie staat Geentaleis	Maximum allowed by
Proposition 65 - Carcinogens List	D.S California - Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		
Component		State or local regul	ations		
	Cristobalite (14464-46-1) U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Haz Substance List; U.S Pennsylvania - RTK (Right to Know) List			to Know Hazardous	
	uminium oxide, non-fibrous (1344-28-1) U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardo Substance List; U.S Pennsylvania - RTK (Right to Know) List			to Know Hazardous	
Quartz (14808-60-7)	Quartz (14808-60-7) U.S New Jersey - Right to Know Hazardous Substance List				
SECTION 16: Othe	er information				
according to Federal Re	gister / Vol. 77, No. 58 / Monda	av. March 26. 2012 / Rule	s and Regulations		
Revision date		10/12/2022			
Other information : Report language name. English. In the event of any conflict between English and other language					
		versions, the English ve		•	
Full text of H-phrases					
H350 Ma	y cause cancer				
Cafate Data Ohead (ODO					

Safety Data Sheet (SDS), USA

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