

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 4/5/2023 Revision date: 4/5/2023 Supersedes: 10/19/2020

1.1. Identification Product form : Mixture Product name : EZ Est 60 ZG CAS-No. : Mixture Product code : 4015 Other means of identification : Dry Additive for Gel Bonded Castable 1.2. Recommended use and restrictions on use 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 412-494-4491 SDS@RescoProducts.com - WWW.RescoProducts.com 1.4. Emergency number Emergency number Emergency number
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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 mixture
GHS US classificationSkin corrosion/irritation Category 2H315Causes skin irritationSerious eye damage/eye irritation Category 2BH320Causes eye irritationCarcinogenicity Category 1AH350May cause cancer (Inhalation)Full text of H statements : see section 16H350H350
2.2. GHS Label elements, including precautionary statements
GHS US labeling Hazard pictograms (GHS US) :
Signal word (GHS US) : Danger Hazard statements (GHS US) : H315 - Causes skin irritation H320 - Causes eye irritation H320 - Causes eye irritation H350 - May cause cancer (Inhalation) H350 - May cause cancer (Inhalation)
Precautionary statements (GHS US) : P280 - Wear eye protection, protective gloves. 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
Other hazards which do not result in classification : Radioactivity: In common with many naturally occurring mineral products, zircon contains very low levels of naturally occurring radioactive elements - principally uranium, thorium, and radium. The principal radiation hazard is due to inhalation of any dust, while a secondary lesser external hazard exists through gamma radiation. Zircon typically exhibits a total specific activity of 90-11 pCi/g. This product contains a dust suppression admixture, that may give off smoke or fumes during initial heat up. These fumes include carbon monoxide, carbon dioxide, and hydrocarbons Adequate ventilation and appropriate respiratory protection may be required.
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
aluminium oxide, non-fibrousCAS-No.: 1344-28-110 - 20Not classified

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Name		Product identifier	%	GHS US classification		
zircon		CAS-No.: 14940-68-2		Not classified		
quartz	CAS-No.: 14808-60-7 1 – 5 Carc. 1A, H350					
	istobalite CAS-No.: 14464-46-1 0.1 – 0.5 Carc. 1A, H350					
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 advic					
First-aid measures after inhalation	(show the label where possible).Remove person to fresh air and keep comfortable for breathing.					
First-aid measures after skin contact	: Rinse with water.	: Rinse with water.				
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.				
4.2. Most important symptoms and effect						
Potential Adverse human health effects and		e data, the classification c	riteria are not	met		
symptoms	. Dubba on available					
Symptoms/effects after inhalation			serious damaç	ge to health by prolonged exposure		
Symptoms/effects after skin contact	through inhalation Causes skin irritat					
Symptoms/effects after eye contact	: Causes skin initat					
4.3. Immediate medical attention and sp						
No additional information available						
SECTION 5: Fire-fighting measures						
5.1. Suitable (and unsuitable) extinguish	ing media					
Suitable extinguishing media	· · · · · · · · · · · · · · · · · · ·	media appropriate for sur	rounding fire.			
Unsuitable extinguishing media		extinguishing media allow				
5.2. Specific hazards arising from the ch						
Fire hazard	: Not flammable.					
5.3. Special protective equipment and protecti	ecautions for fire-fig	hters				
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. 					
Other information	: This product contains a dust suppression admixture, that may give off smoke or fumes during					
				bon dioxide, and hydrocarbons.		
		on and appropriate respire	atory protectio	n may be required.		
SECTION 6: Accidental release meas						
6.1. Personal precautions, protective eq	uipment and emerger	ncy procedures				
6.1.1. For non-emergency personnel Emergency procedures	· Do not brootho du	st. Avoid contact with skin	and avea			
6.1.2. For emergency responders	. Do not breathe du		and eyes.			
Protective equipment		w with proper protection.				
Emergency procedures	: Ventilate area. On	: Ventilate area. On land, sweep or shovel into suitable containers.				
6.2. Environmental precautions						
No additional information available						
6.3. Methods and material for containme						
For containment Methods for cleaning up	: Collect spillage.	r shovel into suitable conta	ainere Minimi-	za generation of dust		
6.4. Reference to other sections				e generation of dust.		
See Heading 8. Exposure controls and personal	protection					
SECTION 7: Handling and storage						
7.1. Precautions for safe handling						
Precautions for safe handling		il all safety precautions ha skin and eyes. Do not bre		and understood. Avoid raising dust.		
Hygiene measures				water before eating, drinking or		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	smoking and when			;		
7.2. Conditions for safe storage, including	ig any incompatibiliti	es				
Storage conditions	: Store in a dry plac	:e.				

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SECTION 8: Exposure controls/personal	protection
8.1. Control parameters	
EZ Est 60 ZG (Mixture)	
No additional information available	
aluminium oxide, non-fibrous (1344-28-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1 mg/m ³ respirable dust
cristobalite (14464-46-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.025 mg/m ³ respirable dust
USA - OSHA - Occupational Exposure Limits	T
OSHA PEL (TWA) [1]	0.05 mg/m ³ respirable dust
zircon (14940-68-2)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	5 mg/m³ As Zr
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [1]	5 mg/m³ As Zr
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	
Appropriate engineering controls : 8.3. Individual protection measures/Personal	Provide adequate ventilation to minimize dust concentrations.
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	
9.1. Information on basic physical and chemic Physical state	Solid

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Appearance Color Odor Odor threshold pH Melting point Freezing point Boiling point Flash point Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) Vapor pressure	 Granular mixture. Light gray earthy No data available No data available > 2000 °F No data available
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	 No data available No data available Insoluble in water. No data available No data available No data available No data available Not Applicable No data available
Explosion limits Explosive properties Oxidizing properties	 No data available No data available No data available

9.2. Other information

No additional information available

No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
None known.	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
Not established.	
10.4. Conditions to avoid	
Avoid dust formation.	
10.5. Incompatible materials	
No additional information available	
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	15000 mg/kg body weight (Equivalent or similar to OECD 401. Bot. Male / famelo
	> 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.
aluminium oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)
cristobalite (14464-46-1)	
рН	6 - 7
quartz (14808-60-7)	
рН	6 – 7

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aluminium oxide, non-fibrous (1344-28-1) pH 9 – 10.5 (aqueous suspension, 33 %) cristobalite (14464-46-1) pH 6 – 7 quartz (14808-60-7) 6 pH 6 – 7 Repiratory or skin sensitization : Not classified Carcinogenicity : Not classified Carcinogenicity : Mot classified quartz (14808-60-7) - IARC group 1 - Carcinogenic to humans Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-single exposure : Not classified Viscosily, kinematic : Not classified Leky routs of exposure : Not classified Viscosily, kinematic : Not applicable (solid) Licky routs of exposure : Inhalation. Symptoms/effects after skin contact : Causes skin irritation. Symptoms/effects after skin contact : Cause se yei irritation. Symptoms/effects after skin contact : Cause se yei irritation. Symptoms/effects after skin contact : Cause se yei irritation. Symptoms/effects after skin contact : Cause se yei irritation. Sympt	Serious eye damage/irritation :	Causes eye irritation.
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	12.2. Persistence and degradability	
Persistence and degradability Not established.	EZ Est 60 ZG (Mixture)	
	Persistence and degradability	Not established.
aluminium oxide, non-fibrous (1344-28-1)	aluminium oxide, non-fibrous (1344-28-1)	
Persistence and degradability Not applicable.	Persistence and degradability	Not applicable.
Chemical oxygen demand (COD) Not applicable	Chemical oxygen demand (COD)	Not applicable
ThOD Not applicable	ThOD	Not applicable
cristobalite (14464-46-1)	cristobalite (14464-46-1)	
Persistence and degradability Mineral. Not applicable.	Persistence and degradability	Mineral. Not applicable.
Chemical oxygen demand (COD) Not applicable	Chemical oxygen demand (COD)	Not applicable
ThOD Not applicable	ThOD	Not applicable
BOD (% of ThOD) Not applicable	BOD (% of ThOD)	Not applicable
zircon (14940-68-2)	zircon (14940-68-2)	
Persistence and degradability Not established.	Persistence and degradability	Not established.

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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	
EZ Est 60 ZG (Mixture)	
Bioaccumulative potential	Not established.
aluminium oxide, non-fibrous (1344-28-1)	
Bioaccumulative potential	No data available.
cristobalite (14464-46-1)	
Bioaccumulative potential	No data available.
zircon (14940-68-2)	
Bioaccumulative potential	Not established.
quartz (14808-60-7)	
Bioaccumulative potential	No data available.
12.4. Mobility in soil	
aluminium oxide, non-fibrous (1344-28-1)	
Surface tension	No data available in the literature
Ecology - soil	No data available.
cristobalite (14464-46-1)	
Ecology - soil	No data available.
12.5. Other adverse effects	
	None known 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.
Ecology - waste materials : SECTION 14: Transport information	Avoid release to the environment.
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	
	as Active on the United States Environmental Protection Agency Toxic Substances Control Act

aluminium oxide, non-fibrous (1344-28-1) Not subject to reporting requirements of the United States SARA Section 313

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aluminium oxide. n	on-fibrous (1344-28-1)				
Note	Note: The section 313 chen contained in this product is	ical list contains "CAS # 1344-28-1 Aluminum Oxide (Fibrous forms)"; the Aluminum oxide non-fibrous, and thus is not a section 313 material. Only manufacturing, processing, or otherwise fibrous form triggers reporting.			
15.2. International re	egulations				
CANADA					
aluminium oxide, n	on-fibrous (1344-28-1)				
	DSL (Domestic Substances Li	st)			
cristobalite (14464-	46-1)				
	DSL (Domestic Substances Li	et)			
zircon (14940-68-2)					
	DSL (Domestic Substances Li	st)			
U-Regulations					
lo additional information	n available				
lational regulations					
quartz (14808-60-7)					
_isted on IARC (Interna	tional Agency for Research on	Cancer)			
15.3. US State regul	ations				
EZ Est 60 ZG (Mixtu	ıre)				
	osition 65 - Other information	This product contains	crystalline silica, a chem	ical known to the state	of California to cause
'			rmation go to WWW.P65		
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		
Vee	Ne	- Female	- Male		
Yes	No	No	No		
<mark>quartz (14808-60-7)</mark> U.S California -	U.S California -	U.S California -	U.S California -	No cignificant rick	Maximum allowable
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	No significant risk level (NSRL)	dose level (MADL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity	Reproductive Toxicity		
Carolinogenia Elat	Developmental Texiolity	- Female	- Male		
Yes	No	No	No		
	1				
Component		State or local regu	lations		
aluminium oxide, non-fi	brous (1344-28-1)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous			
			Pennsylvania - RTK (Rig		
Cristobalite (14464-46-	1)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous			
			Pennsylvania - RTK (Rig		
Quartz (14808-60-7)		U.S New Jersey - Ri	ght to Know Hazardous	Substance List	
SECTION 16: Othe	er information				
ccording to Federal Re	gister / Vol. 77, No. 58 / Monda	ay, March 26, 2012 / Rule	es and Regulations		
Revision date		4/5/2023	-		
Other information	:			any conflict between E	English and other langua
		versions, the English ve	ersion shall prevail.		
Full text of H-phrases					
	uses skin irritation				
-1320 Ca	uses eye irritation				

H320 Causes eye irritation H350 May cause cancer

Safety Data Sheet (SDS), USA

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.