

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 11/21/2022 Revision date: 11/21/2022 Supersedes: 9/29/2020

SECTION 1: Identification				
1.1. Identification				
Product form Product name CAS-No. Product code Dther means of identification	: Mixture : EZ Cubed 93LC : Mixture : 0374 : Alumina Cement Bonded Castable			
1.2. Recommended use and restrictions or	n use			
Jse of the substance/mixture Recommended use	: Refractory : Industrial use			
1.3. Supplier				
Resco Products, Inc. Dne Robinson Plaza, Suite 300 5600 Steubenville Pike Pittsburgh, PA, 15205 Jnited States 112-494-4491 SDS@RescoProducts.com - WWW.RescoProducts	<u>.com</u>			
1.4. Emergency telephone number				
Emergency number		NLY (CHEMTREC) USA &	& Canada 1-800)-424-9300
SECTION 2: Hazard(s) identification	Outside USA & C	anada +1 703-741-5970		
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	F	I315Causes skI320Causes eyI350May cause		tion)
2.2. GHS Label elements, including precau	tionary statements	S		
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	lassification			
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/Information	on ingredients			
3.1. Substances				
lot applicable				
3.2. Mixtures				
Name		Product identifier	%	GHS US classification
aluminium oxide, non-fibrous		CAS-No.: 1344-28-1	75 – 95	Not classified
		CAS-No.: 65997-16-2	5 – 10	Skin Irrit. 2, H315
Calcium Aluminate Cement				Evolrrit 2B H220
Calcium Aluminate Cement		CAS-No.: 14464-46-1	0.1 – 0.5	Eye Irrit. 2B, H320 Carc. 1A, H350

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 First-aid measures after skin contact	Allow affected person to breathe fresh air. Allow the victim to rest.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 measures after ingestion	and easy to do. Continue rinsing. Rinse mouth. Get medical advice/attention if you feel unwell. Do not induce vomiting.
4.2. Most important symptoms and effects	s (acute and delayed)
Symptoms/effects after inhalation	: May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation.
Symptoms/effects after skin contact Symptoms/effects after eye contact	: Causes skin irritation. : Causes eye irritation.
4.3. Immediate medical attention and spec	cial treatment, if necessary
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishin	-
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 che	mical
Fire hazard	: Non-flammable.
5.3. Special protective equipment and pre	
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 measure	
6.1. Personal precautions, protective equi	pment and emergency procedures
6.1.1. For non-emergency personnel Protective equipment 6.1.2. For emergency responders	: Avoid creating or spreading dust.
Protective equipment	: Equip cleanup crew with proper protection.
6.2. Environmental precautions	
Prevent entry to sewers and public waters.	
6.3. Methods and material for containment	t and cleaning up
For containment	: Collect spillage.
Methods for cleaning up 6.4. Reference to other sections	: On land, sweep or shovel into suitable containers.
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling Precautions for safe handling	. Do not bondlo until all cofety pressuitions have been read and understand. Avoid context with
6	: Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. 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.
7.2. Conditions for safe storage, including	
Storage conditions Incompatible products	 Store this product in a dry location where it can be protected from the elements. Strong bases. Strong acids.
SECTION 8: Exposure controls/persor	nal protection
8.1. Control parameters	
EZ Cubed 93LC (Mixture)	
No additional information available	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

,	
aluminium oxide, non-fibrous (1344-28-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1 mg/m ³ respirable dust
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
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Provide adequate ventilation to minimize dust concentrations.
8.3. Individual protection measures/Person	
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	
SECTION 9: Physical and chemical pro	perties
9.1. Information on basic physical and cher	nical properties
Physical state	: Solid
Appearance Color	: Granular mixture.
Odor	: white : odorless
Odor threshold	: No data available
pH	: No data available
Melting point	: > 3000 °F
Freezing point	: No data available
Boiling point	: No data available
Flash point Relative evaporation rate (butyl acetate=1)	: No data available : No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: ≈2.6
Solubility	: Slightly soluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature Viscosity, kinematic	: No data available : No data available
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	

No additional information available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 10: Stability and reactivity	
10.1. Reactivity	
Hydraulic setting. 10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
No additional information available	
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 aloggified
	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.
aluminium oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)
Calcium Aluminate Cement (65997-16-2)	
рН	≤ 13
cristobalite (14464-46-1)	
рН	6 – 7
Serious eye damage/irritation :	Causes eye irritation.
aluminium oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)
Calcium Aluminate Cement (65997-16-2)	
рН	≤ 13
cristobalite (14464-46-1)	
рН	6 – 7
	Not classified
Germ cell mutagenicity :	Not classified
	May cause cancer (Inhalation).
· · · · · · · · · · · · · · · · · · ·	Not classified Not classified
STOT-single exposure : STOT-repeated exposure :	Not classified Not classified
	Not classified
	No data available
aluminium oxide, non-fibrous (1344-28-1)	
Viscosity, kinematic	Not applicable (solid)

Safety Data Sheet

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Symptoms/effects after inhalation:Symptoms/effects after skin contact:Symptoms/effects after eye contact:	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	
aluminium oxide, non-fibrous (1344-28-1)	
Persistence and degradability	Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
cristobalite (14464-46-1)	
Persistence and degradability	Mineral. Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
aluminium oxide, non-fibrous (1344-28-1)	
Bioaccumulative potential	No data available.
cristobalite (14464-46-1)	
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	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Disposal methods	
	Do not discharge into the sewer.
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	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15: Regula	tory information				
15.1. US Federal regula	ations				
All components of this proc (TSCA) inventory	duct are present and listed a	s Active on the United S	tates Environmental Pro	tection Agency Toxic S	Substances Control Act
aluminium oxide, non-	fibrous (13/4-28-1)				
	quirements of the United Sta	tes SARA Section 313			
Note	Note: The sec Aluminum oxid	tion 313 chemical list co de contained in this prod processing, or otherwis	uct is non-fibrous, and th	nus is not a section 31	3 material. Only
15.2. International regu	lations				
CANADA					
aluminium oxide, non-	-fibrous (1344-28-1)				
	L (Domestic Substances Lis	it)			
	· ·	•			
Calcium Aluminate Ce	ement (65997-16-2)				
Listed on the Canadian DS	L (Domestic Substances Lis	it)			
cristobalite (14464-46-					
	SL (Domestic Substances Lis	st)			
EU-Regulations					
No additional information av	ailable				
National regulations No additional information av	vailabla				
15.3. US State regulation					
cristobalite (14464-46-					
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk	Maximum allowable
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity	Proposition 65 - Reproductive Toxicity	level (NSRL)	dose level (MADL)
Carcinogens List	Developmental Toxicity	- Female	- Male		
Yes	No	No	No		
100	110				
Component		State or local regul	ations		
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			
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			
SECTION 16: Other i	nformation				
	er / Vol. 77, No. 58 / Monda	y, March 26, 2012 / Rule 11/21/2022	s and Regulations		
Other information			English In the event of	any conflict between E	- nalish and other language
	her information : Report language name. English. In the event of any conflict between English and other versions, the English version shall prevail.			-กษาอก สกุด อยายา เล่าเป็นสย	
Full text of H-phrases					
	s skin irritation				

I un text of II pint		
H315	Causes skin irritation	
H320	Causes eye irritation	
H350	May cause cancer	
Safety Data Sheet (SDS) USA	

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.