

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 12/23/2015 Revision date: 2/4/2025 Supersedes: 2/23/2022

SECTION 1: Identification							
1.1. Identification							
Product form Product name CAS-No. Product code Synonyms Other means of identification	 Article Uniform 70 UCXC 1.5%430 Mixture 8974 Pre-Cast Refractory Shape Absolute Difference 						
1.2. Recommended use and restrictions on							
Use of the substance/mixture	: Refractory						
Recommended use	: Industrial use						
1.3. Supplier							
RHI Magnesita One Robinson Plaza, Suite 300 6600 Steubenville Pike Pittsburgh, PA, 15205 United States T 412-494-4491 SDS@RescoProducts.com - WWW.RescoProducts.com	<u>:om</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 mixtu	ire						
GHS-US classification Not classified							
2.2. GHS Label elements, including precauti							
This product meets the definition and criteria for an a regulations.	rticle according to OSH	IA 29 CFR 1910.1200 an	d the EU REAC	CH 1907/2006 Article 3(3)			
2.3. Other hazards which do not result in cla							
	Other hazards which do not result in classification : Note: This product contains metallic fiber, hand protection required. Pre-cast shape may be heavy and cause pinch and drop hazards, use of gloves and safety shoes should be considered.						
2.4. Unknown acute toxicity (GHS US)							
No additional information available							
SECTION 3: Composition/information o	n ingredients						
3.1. Substances							
Not applicable							
3.2. Mixtures							
Name aluminum oxide, non-fibrous		Product identifier CAS-No.: 1344-28-1	<mark>%</mark> 10 – 20	GHS-US classification Not classified			
Calcium Aluminate Cement		CAS-No.: 65997-16-2	1 – 5	Skin Irrit. 2, H315 Eye Irrit. 2B, H320			
cristobalite		CAS-No.: 14464-46-1	0.1 – 0.5	Carc. 1A, H350			
Full text of hazard classes and H-statements : see se	ction 16						
SECTION 4: First-aid measures							
4.1. Description of first aid measures							
 St-aid measures general Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Allow affected person to breathe fresh air. Allow 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. 							
4.2. Most important symptoms and effects (acute and delayed)							
Potential adverse human health effects and symptoms		data, the classification c	riteria are not m	et.			

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Symptoms/effects after inhalation	: Dust on tear out. Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.
Symptoms/effects after skin contact Symptoms/effects after eye contact	: Causes skin irritation. : Causes eye irritation.
4.3. Immediate medical attention and spec	ial treatment, if necessary
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishin	g 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 cher	nical
Fire hazard	: Not flammable.
5.3. Special protective equipment and pred	cautions for fire-fighters
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 measu	
6.1. Personal precautions, protective equip	pment and emergency procedures
6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders	: Avoid contact with skin and eyes. Do not breathe dust.
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: On land, sweep or shovel into suitable containers.
6.2. Environmental precautions	
No additional information available	
6.3. Methods and material for containment	
For containment Methods for cleaning up	 Collect spillage. On land, sweep or shovel into suitable containers. Minimise generation of dust.
6.4. Reference to other sections	
See Section 8. Exposure controls and personal pro-	tection.
SECTION 7: Handling and storage	
7.1 Propultions for safe handling	
7.1. Precautions for safe handling	
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Avoid contact with
Precautions for safe handling Hygiene measures	 skin and eyes. Do not breathe dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Precautions for safe handling	 skin and eyes. Do not breathe dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Precautions for safe handling Hygiene measures	 skin and eyes. Do not breathe dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, including Storage conditions	 skin and eyes. Do not breathe dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. any incompatibilities Store this product in a dry location where it can be protected from the elements. Strong bases. Strong acids.
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Skin and body protection:

Safety shoes. Wear suitable protective clothing

Respiratory protection:

Dust on tear out. Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state :	Solid
Appearance :	Solid in various shapes.
Colour :	Grey
Odour :	odourless
Odour threshold :	No data available
pH :	No data available
Melting point :	> 2500 °F
Freezing point :	No data available
Boiling point :	No data available
Flash point :	No data available
Relative evaporation rate (butylacetate=1) :	No data available
Flammability (solid, gas) :	Not flammable. No data available
Vapour pressure : Relative vapour density at 20°C :	No data available
Relative density :	≈2.6
Solubility	Insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	No data available
Auto-ignition temperature	No data available
Decomposition temperature :	No data available
Viscosity, kinematic	Not Applicable
Viscosity, dynamic :	No data available
Explosive limits :	No data available
Explosive properties :	No data available
Oxidising properties :	No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
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 (oral) :	Not classified
Acute toxicity (dermal) :	Not classified
Acute toxicity (inhalation) :	Not classified
aluminum oxide, non-fibrous (1344-28-1)	
LD50 oral rat	> 15900 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female,
	Experimental value, Oral, 14 day(s))

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aluminum oxide, non-fibrous (1344-28-1)	
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 :	Not classified
Calcium Aluminate Cement (65997-16-2)	
рН	≤ 13
cristobalite (14464-46-1)	
рН	6 - 7
aluminum oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)
Serious eye damage/irritation :	Not classified
Calcium Aluminate Cement (65997-16-2)	
рН	≤ 13
cristobalite (14464-46-1)	
рН	6-7
aluminum oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)
Respiratory or skin sensitisation:Germ cell mutagenicity:Carcinogenicity:Reproductive toxicity:STOT-single exposure:STOT-repeated exposure:	Not classified Not classified Not classified Not classified Not classified Not classified
Aspiration hazard :	Not classified Not Applicable
aluminum 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. Dust on tear out. Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation. Causes skin irritation. Causes eye irritation.
SECTION 12: Ecological information	
12.1. Toxicity	
aluminum 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	
Uniform 70 UCXC 1.5%430 (Mixture)	
Persistence and degradability	Not established.
Calcium Aluminate Cement (65997-16-2)	
Persistence and degradability	Rapidly degradable
cristobalite (14464-46-1)	
Persistence and degradability	Mineral, Not applicable.
Chemical oxygen demand (COD)	Not applicable

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cristobalite (14464-46-1)			
ThOD	Not applicable		
BOD (% of ThOD)	Not applicable		
aluminum oxide, non-fibrous (1344-28-1)			
Persistence and degradability	Not applicable.		
Chemical oxygen demand (COD)	Not applicable		
ThOD	Not applicable		
12.3. Bioaccumulative potential			
Uniform 70 UCXC 1.5%430 (Mixture)			
Bioaccumulative potential	Not established.		
cristobalite (14464-46-1)			
Bioaccumulative potential	No data available.		
aluminum oxide, non-fibrous (1344-28-1)			
Bioaccumulative potential	No data available.		
12.4. Mobility in soil			
cristobalite (14464-46-1)			
Ecology - soil	No data available.		
aluminum oxide, non-fibrous (1344-28-1)			
Surface tension	No data available in the literature		
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			
Product/Packaging disposal recommendations :	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			
SECTION 15: Regulatory information			
15.1. US Federal regulations			
All components of this product are present and listed a (TSCA) inventory	as Active on the United States Environmental Protection Agency Toxic Substances Control Act		
aluminum oxide, non-fibrous (1344-28-1)			
Not subject to reporting requirements of the United States SARA Section 313 Note 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			

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.

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15.2. Internation	al regu	lations				
CANADA	U					
	ate Ce	ment (65997-16-2)				
		L (Domestic Substances Lis	t)			
Liotod oli tilo odila			•)			
cristobalite (144	64-46-	1)				
Listed on the Cana	dian DS	L (Domestic Substances Lis	t)			
		ibrous (1344-28-1)				
	dian DS	L (Domestic Substances Lis	t)			
EU-Regulations		- 1				
No additional inform National regulation		allable				
No additional inform		ailable				
15.3. US State re						
Uniform 70 UCX						
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				California to cause		
				<u>g</u> e		
cristobalite (144	64-46-	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		
Yes		No	No	No		
Component St			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			
aluminum oxide, non-fibrous (1344-28-1) U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazard Substance List; U.S Pennsylvania - RTK (Right to Know) List			o Know Hazardous			
SECTION 16: C	Other i	nformation				
	I Registe	er / Vol. 77, No. 58 / Monda	y, March 26, 2012 / Rule	s and Regulations		
Revision date : 2/4/2025						
Other information : Report language name. English. In the event of any conflict between the English and other						
Full tout of he		a and II at at an anta	language versions, the l	English version shall pre	vail.	
H315		s and H-statements s skin irritation.				
11313	Causes	SAIT ITTILALIUTT.				
H320	Causes eye irritation					

H350 May cause cancer.

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This information and recommendations set forth herein are taken from sources believed to be accurate as of the date herein, however, RHI Magnesita 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.