

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 2/16/2017 Revision date: 6/18/2025 Supersedes: 6/6/2022

SECTION 1: Identification				
1.1. Identification				
Product form	: Article			
Product name	: Uniform 95NCS with Metal Fiber			
CAS-No.	: Mixture			
Product code	: 3263, 4627, 4638, 4762			
Synonyms	ms : Pre-Cast Refractory Shape			
1.2. Recommended use and restrictions or				
Use of the substance/mixture Recommended use	: Refractory : Industrial use			
1.3. Supplier				
RHI Magnesita One Robinson Plaza, Suite 300 6600 Steubenville Pike Pittsburgh, PA, 15205 United States T 412-494-4491 <u>Resco SDS.TDS@rhimagnesita.com</u> - <u>WWW.Resco</u>	coProducts.com			
1.4. Emergency telephone number				
Emergency number		Y (CHEMTREC) USA & nada +1 703-741-5970	Canada 1-800	-424-9300
SECTION 2: Hazard(s) identification				
2.1. Classification of the substance or mix	ture			
GHS-US classification Not classified				
2.2. GHS Label elements, including precau	tionary statements			
This product meets the definition and criteria for an regulations.	article according to OSH	IA 29 CFR 1910.1200 ar	nd the EU REA	CH 1907/2006 Article 3(3)
2.3. Other hazards which do not result in c	lassification			
Other hazards which do not result in classification				required. Pre-cast shape may be Id safety shoes should be considered
2.4. Unknown acute toxicity (GHS US)	neavy and cause p	non and drop hazards, d	se of gioves al	
No additional information available				
SECTION 3: Composition/information	on ingredients			
3.1. Substances				
3.1. Substances Not applicable				
Not applicable				
Not applicable 3.2. Mixtures		Product identifier	0/	GHS US classification
Not applicable 3.2. Mixtures Name		Product identifier	<mark>%</mark>	GHS-US classification
Not applicable 3.2. Mixtures Name aluminum oxide, non-fibrous		CAS-No.: 1344-28-1	75 – 95	Not classified
Not applicable 3.2. Mixtures Name				Not classified Not classified
Not applicable 3.2. Mixtures Name aluminum oxide, non-fibrous Magnesium Oxide	section 16	CAS-No.: 1344-28-1 CAS-No.: 1309-48-4	75 – 95 5 – 10	Not classified
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Not applicable 3.2. Mixtures Name aluminum oxide, non-fibrous Magnesium Oxide cristobalite Full text of hazard classes and H-statements : see s SECTION 4: First-aid measures	: Never give anything (show the label whe	CAS-No.: 1344-28-1 CAS-No.: 1309-48-4 CAS-No.: 14464-46-1	75 – 95 5 – 10 0.1 – 0.5 cious person. If	Not classified Not classified Carc. 1A, H350
Not applicable 3.2. Mixtures Name aluminum oxide, non-fibrous Magnesium Oxide cristobalite Full text of hazard classes and H-statements : see s SECTION 4: First-aid measures 4.1. Description of first aid measures	 Never give anything (show the label whe Allow affected pers Gently wash with p IF IN EYES: Rinse and easy to do. Co 	CAS-No.: 1344-28-1 CAS-No.: 1309-48-4 CAS-No.: 14464-46-1 by mouth to an unconse ere possible). on to breathe fresh air. A enty of soap and water. cautiously with water for	75 - 95 $5 - 10$ $0.1 - 0.5$ cious person. If	Not classified Not classified Carc. 1A, H350
Not applicable 3.2. Mixtures Name aluminum oxide, non-fibrous Magnesium Oxide cristobalite Full text of hazard classes and H-statements : see s SECTION 4: First-aid measures 4.1. Description of first aid measures First-aid measures after inhalation First-aid measures after eye contact First-aid measures after ingestion	 Never give anything (show the label who Allow affected pers Gently wash with p IF IN EYES: Rinse and easy to do. Con Rinse mouth. Do N 	CAS-No.: 1344-28-1 CAS-No.: 1309-48-4 CAS-No.: 14464-46-1 g by mouth to an unconse re possible). on to breathe fresh air. A enty of soap and water. cautiously with water for ntinue rinsing. OT induce vomiting. Obt	75 - 95 $5 - 10$ $0.1 - 0.5$ cious person. If	Not classified Not classified Carc. 1A, H350
Not applicable 3.2. Mixtures Name aluminum oxide, non-fibrous Magnesium Oxide cristobalite Full text of hazard classes and H-statements : see s SECTION 4: First-aid measures 4.1. Description of first aid measures First-aid measures general First-aid measures after inhalation First-aid measures after eye contact First-aid measures after ingestion 4.2. Most important symptoms and effects	 Never give anything (show the label who Allow affected pers Gently wash with pi IF IN EYES: Rinse and easy to do. Co Rinse mouth. Do N (acute and delayed) 	CAS-No.: 1344-28-1 CAS-No.: 1309-48-4 CAS-No.: 14464-46-1 g by mouth to an unconse ere possible). on to breathe fresh air. A enty of soap and water. cautiously with water for ntinue rinsing. OT induce vomiting. Obta	75 – 95 5 – 10 0.1 – 0.5 cious person. If llow the victim several minute ain emergency	Not classified Not classified Carc. 1A, H350
Not applicable 3.2. Mixtures Anne aluminum oxide, non-fibrous Magnesium Oxide cristobalite Full text of hazard classes and H-statements : see s SECTION 4: First-aid measures 4.1. Description of first aid measures First-aid measures after inhalation First-aid measures after eye contact First-aid measures after eye contact First-aid measures after ingestion 4.2. Most important symptoms and effects Potential adverse human health effects and symptoms	 Never give anything (show the label whe Allow affected pers Gently wash with pi IF IN EYES: Rinse and easy to do. Coi Rinse mouth. Do N (acute and delayed) Dust on tear out. He inhalation. 	CAS-No.: 1344-28-1 CAS-No.: 1309-48-4 CAS-No.: 14464-46-1 g by mouth to an unconse ere possible). on to breathe fresh air. A enty of soap and water. cautiously with water for ntinue rinsing. OT induce vomiting. Obtain armful: danger of serious	75 – 95 5 – 10 0.1 – 0.5 cious person. If llow the victim several minute ain emergency damage to her	Not classified Not classified Carc. 1A, H350
Not applicable 3.2. Mixtures Anne aluminum oxide, non-fibrous Magnesium Oxide cristobalite Full text of hazard classes and H-statements : see s SECTION 4: First-aid measures 4.1. Description of first aid measures First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion 4.2. Most important symptoms and effects Potential adverse human health effects and	 Never give anything (show the label whe Allow affected pers Gently wash with pi IF IN EYES: Rinse and easy to do. Coi Rinse mouth. Do N (acute and delayed) Dust on tear out. He inhalation. 	CAS-No.: 1344-28-1 CAS-No.: 1309-48-4 CAS-No.: 14464-46-1 g by mouth to an unconse ere possible). on to breathe fresh air. A enty of soap and water. cautiously with water for ntinue rinsing. OT induce vomiting. Obta armful: danger of serious anger of serious damage	75 – 95 5 – 10 0.1 – 0.5 cious person. If llow the victim several minute ain emergency damage to her	Not classified Not classified Carc. 1A, H350

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Symptoms/effects after eye contact	: Causes eye irritation.
4.3. Immediate medical attention and specia	
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and 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 chemi	cal
Fire hazard	: Not flammable.
5.3. Special protective equipment and preca	utions for fire-fighters
	 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	es
6.1. Personal precautions, protective equipment	nent 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 a	nd 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 protect	stion.
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 contact with
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.
7.2. Conditions for safe storage, including a	
Storage conditions	: Store this product in a dry location where it can be protected from the elements.
Incompatible products	: Strong bases. Strong acids.
SECTION 8: Exposure controls/persona	I protection
8.1. Control parameters	
cristobalite (14464-46-1)	
USA - ACGIH - Occupational Exposure Limits ACGIH® TLV® TWA	0.025 mg/m ³ respirable dust
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	0.05 mg/m ³ respirable dust
aluminum oxide, non-fibrous (1344-28-1)	
USA - ACGIH - Occupational Exposure Limits ACGIH® TLV® TWA	1 mg/m ³ respirable dust
Magnesium Oxide (1309-48-4)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® TWA	10 mg/m³ inhalable dust
USA - OSHA - Occupational Exposure Limits OSHA PEL TWA	10 mg/m³ respirable dust
8.2. Appropriate engineering controls	
	: Dust on tear out. Provide adequate ventilation to minimize dust concentrations.
8.3. Individual protection measures/Persona	
Hand protection:	
Wear protective gloves.	

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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

Physical state	: Solid
Appearance	: Solid in various shapes.
Colour	: Off-white
Odour	: odourless
Odour threshold	: No data available
pH	: No data available
Melting point	: > 3000 °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.
Vapour pressure Relative vapour density at 20°C	: No data available : No data available
Relative density	≈ 2.6
Solubility	: ~ 2.0 : 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))
Magnesium Oxide (1309-48-4)	
LD50 oral rat	> 5000 mg/kg (Rat, Literature study, Oral)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Rabbit, Literature study, Dermal)
Skin corrosion/irritation :	Not classified
cristobalite (14464-46-1)	
рН	6 – 7
aluminum oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)
Magnesium Oxide (1309-48-4)	
рН	11 (10 %)
Serious eye damage/irritation :	Not classified
cristobalite (14464-46-1)	
рН	6 - 7
aluminum oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)
Magnesium Oxide (1309-48-4)	
рН	11 (10 %)
Respiratory or skin sensitisation:Germ cell mutagenicity:Carcinogenicity:Reproductive toxicity:STOT-single exposure:STOT-repeated exposure:Aspiration hazard:Viscosity, kinematic:	Not classified Not classified Not classified Not classified Not classified Not classified Not classified Not classified Not classified
aluminum oxide, non-fibrous (1344-28-1)	1
Viscosity, kinematic	Not applicable (solid)
Magnesium Oxide (1309-48-4)	
Viscosity, kinematic	Not applicable (solid)
Potential adverse human health effects and symptoms : Symptoms/effects after inhalation : Symptoms/effects after skin contact : Symptoms/effects after eye contact :	Dust on tear out. Harmful: danger of serious damage to health by prolonged exposure through inhalation. 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 95NCS with Metal Fiber (Mixture)	
Persistence and degradability	Not established.

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cristobalite (14464-46-1)	
Persistence and degradability	Mineral, Not applicable.
Chemical oxygen demand (COD)	Not applicable
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
Magnesium Oxide (1309-48-4)	
Persistence and degradability	Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
12.3. Bioaccumulative potential	
Uniform 95NCS with Metal Fiber (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.
Magnesium Oxide (1309-48-4)	
Bioaccumulative potential	No bioaccumulation 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	Not applicable (water solubility < 1 mg/l)
Ecology - soil	No data available.
Magnesium Oxide (1309-48-4)	
Surface tension	No data available in the literature
Ecology - soil	No data available.
12.5. Other adverse effects	
5 5	None known No other effects known.
SECTION 13: Disposal considerations	
13.1. Disposal methods	
	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	

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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 as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

aluminum oxide	e, non-fibrous (1344-28-1)
Not subject to repo	rting 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 manufacturing, processing, or otherwise use of aluminum oxide in the fibrous form triggers reporting.
15.2. Internation	al regulations
CANADA	
cristobalite (144	l64-46-1)
Listed on the Cana	dian DSL (Domestic Substances List)
aluminum oxide	e, non-fibrous (1344-28-1)
Listed on the Cana	dian DSL (Domestic Substances List)
Magnesium Oxi	de (1309-48-4)
Listed on the Cana	dian DSL (Domestic Substances List)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available National regulations

No additional information available

15.3. US State regulations

Uniform 95NCS with Metal Fiber (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		
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
aluminum 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
Magnesium Oxide(1309-48-4)	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 information

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Revision date	: 6/18/2025
Other information	: Report language name. English. In the event of any conflict between the English and other
	language versions, the English version shall prevail.
Full text of hazard classes and	H-statements
H350 May cause ca	ncer.

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, 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.