

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 10/13/2015 Revision date: 2/26/2025 Supersedes: 3/30/2022

SECTION 1: Identification					
1.1. Identification					
Product form Product name CAS-No. Product code Other means of identification	<ul> <li>Mixture</li> <li>Vibrocast ASC 4LG TL0918</li> <li>Mixture</li> <li>4417</li> <li>Alumina Cement Bonded Castable</li> </ul>				
1.2. Recommended use and restrictions on					
Use of the substance/mixture	: Refractory				
Recommended use	: Industrial use				
<b>1.3. Supplier</b> RHI Magnesita One Robinson Plaza, Suite 300 6600 Steubenville Pike Pittsburgh, PA, 15205 United States T 412-494-4491 <u>SDS@RescoProducts.com</u> - <u>WWW.RescoProducts.</u>	<u>com</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 mixt	Ire				
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	H315Causes skin irritationH320Causes eye irritationH350May cause cancer (Inhalation)				
2.2. GHS Label elements, including precaut	onary statements				
GHS US labeling Hazard pictograms (GHS US)					
Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US)	<ul> <li>Danger</li> <li>H315 - Causes skin irritation H320 - Causes eye irritation H350 - May cause cancer (Inhalation)</li> <li>S US)</li> <li>P 280 - 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.</li> </ul>				
2.3. Other hazards which do not result in cl	assification				
No additional information available					
2.4. Unknown acute toxicity (GHS US)					
No additional information available					
SECTION 3: Composition/Information of	n ingredients				
3.1. Substances					
Not applicable					
3.2. Mixtures					
Name aluminium oxide, non-fibrous	Product identifier         %         GHS US classification           CAS-No.: 1344-28-1         75 – 95         Not classified				
Calcium Aluminate Cement	CAS-No.: 65997-16-2 5 – 10 Skin Irrit. 2, H315				
cristobalita	Eye Irrit. 2B, H320           CAS-No.: 14464-46-1         0.1 – 0.5         Carc. 1A, H350				
cristobalite Full text of hazard classes and H-statements : see s					

### Safety Data Sheet

SECTION 4: First-aid measures         41. Description of first aid measures         First-aid measures general       : Never give anything by mouth to an unconscious person. If you feel unvell, seek medical advice (afford measures after inheliation in the internet of the internet possible).         First-aid measures after indexion       : Conditive vision with given of usop and vision.         First-aid measures after indexion       : Conditive vision given vision.         First-aid measures after indexion       : Ruse mouth. Cert medical advice and delayed)         Potential Adverse human health effects and       : Darger of serious damage to health by prolonged exposure through inhalation. May cause concer by inhalation.         Symptoms/effects after skin contact       : Causes skin inflation.         Symptoms/effects after skin contact       : Datager of serious damage to health by prolonged exposure through inhalation. May cause concert skin structures.         Somptoms/effects after skin contact       : Causes skin inflation.         Symptoms/effects after skin contact       : Causes skin inflation.         Symptoms/effects after skin contact       : Dataset skin structures.         Somptoms/effects after skin contact       : Dataset skin structur						
First-aid messures general       : Newer give anything by mouth to an unconsidue person. If you fed unwell, seek medical advice (now the label where possible).         First-aid messures after inhalation       : Allow affected person to breathe fresh air. Allow the victim to rest.         First-aid messures after inhalation       : Allow affected person to breathe fresh air. Allow affected advices definition.         First-aid messures after indexidon       : First-aid messures after indexidon.         Symptoms-offects after inhalation       : Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.         Symptoms-offects after sin contain       : Causes skin infration.         Status after inhalation <t< td=""><td>SECTION 4: First-aid measures</td><td></td></t<>	SECTION 4: First-aid measures					
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First-aid measures after kin contact       : Allow affected person to breathe fresh air, Allow the victim to rest.         First-aid measures after kin contact       : Genty wash with plenty of soap and water.         First-aid measures after kin contact       : IF IN EVES: Rines cautionally with water for several minutes. Remove contact lenses, if present and easy to AC continue minique.         A2. Most important symptoms and effects (acute and delayed)       Potential daverse human health effects and         Proteined I Adverse human health effects and       : Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.         Symptoms/effects after kin contact       : Causes with inflation.         Symptoms/effects after kin contact       : Cause skin inflation.         Symptoms/effects after kin contact       : Causes skin inflation.         Symptoms/effects after kin contact       : Causes skin inflation.         Symptoms/effects after kin contact       : Causes skin inflation.         Symptoms/effects after kin contact       : Cause skin i	First-aid measures general					
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and easy to do. Continue fining.         First aid measures after ingestion       E. Rines mouth. Get medical advoica/estitution if you feel unwell. Do not induce vonting.         4.2. Most important symptoms and effects (acute and delayed)       Potential Adverse thuman health effects and         Symptoms/Effects after inhalation       E. Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.         Symptoms/Effects after skin contact       E. Causes skin inntation.         A.3. Inmediate medical attention and special treatment, if inccessary         No additional information available         Section S. Fire-fighting measures         Section S. Fire-fighting inguitation and appecial treatment.         Suitable (and unsuitable) extinguishing media         Unsuitable extinguishing media       : Use extinguishing media abpropriate for surrounding fire.         Unsuitable extinguishing media       : Use extinguishing media abpropriate for surrounding fire.         Special protective equipment and proceautions for fire-fighteres         Firefighting instructions       : Fight fire with normal proceautions from a reasonable distance.         Protection during firefighting       : Do not enter fire area without proper protective equipment, including respiratory protection.         Section J.1. For one-mergency personnel       : Avoid creating or spreading dust.         Protective equipment       : Avoid creating or spreading dust.						
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5.3. Special protective equipment and precautions for fire-fighters         Firefighting instructions       : Fight fire with normal precautions from a reasonable distance.         Protection during firefighting       :: Do not enter fire area without proper protective equipment, including respiratory protection.         SECTION 6: Accidental release measures       6.1. Personal precautions, protective equipment and emergency procedures         6.1.1. For non-emergency personnel       : Avoid creating or spreading dust.         Protective equipment       : Avoid creating or spreading dust.         Emergency procedures       : Do not breathe dust. Avoid contact with skin and eyes.         6.1.2. For emergency responders       : Protective equipment         Protective equipment       : Equip cleanup crew with proper protection.         Emergency procedures       : Ventilate area. On land, sweep or shovel into suitable containers.         6.2. Environmental precautions       : Collect spillage.         Methods and material for containment and cleaning up       : On land, sweep or shovel into suitable containers.         6.4. Reference to other sections       : On land, sweep or shovel into suitable containers.         SECTION 7: Handling and storage       : Novid cheaning up         7.1. Precautions for safe handling       : Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Do not breathe dusts.         Hygiene measures<						
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Emergency procedures       : Do not breathe dust. Avoid contact with skin and eyes.         61.2. For emergency responders       : Equip cleanup crew with proper protection.         Emergency procedures       : Ventilate area. On land, sweep or shovel into suitable containers.         6.2. Environmental precautions       : Ventilate area. On land, sweep or shovel into suitable containers.         6.3. Methods and material for containment and cleaning up       : Collect spillage.         For containment       : Collect spillage.         Methods for cleaning up       : On land, sweep or shovel into suitable containers.         6.4. Reference to other sections       : Sectron 7: Handling and storage         71. Precautions for safe handling       : 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 scap and water before eating, drinking or smoking and when leaving work.         7.2. Conditions for safe storage, including any incompatibilities       : Store this product in a dry location where it can be protected from the elements.         Incompatible products       : Storing bases. Strong acids.         SECTION 8: Exposure controls/personal protection         8.1. Control parameters       : Store this product in a dry location where it can be protected from the elements.         Incompatible products       : Storing bases. Strong acids. <td></td> <td></td>						
6.1.2. For emergency responders         Protective equipment       : Equip cleanup crew with proper protection.         Emergency procedures       : Ventilate area. On land, sweep or shovel into suitable containers.         6.2. Environmental precautions         Prevent entry to sewers and public waters.         6.3. Methods and material for containment and cleaning up         For containment       : Collect spillage.         Methods for cleaning up       : On land, sweep or shovel into suitable containers.         6.4. Reference to other sections         See Heading 8. Exposure controls and personal protection.         SECTION 7: Handling and storage         7.1. Precautions for safe handling         Precautions for safe handling         : Wash hands and other exposed areas with mild scap and water before eating, drinking or smoking and when leaving work.         7.2. Conditions for safe storage, including any incompatibilities         Storage conditions       : Store this product in a dry location where it can be protected from the elements.         Incompatibile products       : Store gas. Strong acids.         SECTION 8: Exposure controls/personal protection         8.1. Control parameters         aluminium oxide, non-fibrous (1344-28-1)         USA - ACGH - Occupational Exposure Limits						
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aluminium oxide, non-fibrous (1344-28-1) USA - ACGIH - Occupational Exposure Limits						
USA - ACGIH - Occupational Exposure Limits	-					
	USA - ACGIH - Occupational Exposure Limits					
	ACGIH OEL TWA	1 mg/m <sup>3</sup> respirable dust				

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cristobalite (14464-46-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.025 mg/m <sup>3</sup> respirable dust
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	0.05 mg/m <sup>3</sup> respirable dust
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Provide adequate ventilation to minimize dust concentrations.
8.3. Individual protection measures/Person	iai protective equipment
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	·
9.1. Information on basic physical and che	
Physical state	: Solid
Appearance Color	: Granular mixture. : white
Odor	: odorless
Odor threshold	: No data available
рН	: ≈ 10.5
pH solution concentration	: 10 %
Melting point Freezing point	: > 3000 °F : No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas) Vapor pressure	: Not flammable. : No data available
Relative vapor density at 20°C	: No data available
Relative density	: ≈ 2.9
Solubility	: Slightly soluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature Decomposition temperature	: No data available : No data available
Viscosity, kinematic	: Not Applicable
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties Oxidizing properties	: No data available : 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.	
10.3. Possibility of hazardous reactions	
Not established.	
10.4. Conditions to avoid Avoid dust formation.	
Avoia aust ionnalion.	
2/26/2025 (Devision date)	EN (Faciliak LIC) 20

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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) Acute toxicity (dermal) Acute toxicity (inhalation)	: 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. pH: ≈ 10.5		
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. pH: ≈ 10.5		
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		
Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard Viscosity, kinematic	<ul> <li>Not classified</li> <li>Not classified</li> <li>May cause cancer (Inhalation).</li> <li>Not classified</li> </ul>		
aluminium oxide, non-fibrous (1344-28-1)			
Viscosity, kinematic	Not applicable (solid)		
Potential Adverse human health effects and symptoms Symptoms/effects after inhalation	<ul> <li>Danger of serious damage to health by prolonged exposure through inhalation.</li> <li>Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.</li> </ul>		
Symptoms/effects after skin contact Symptoms/effects after eye contact	: Causes skin irritation. : Causes eye irritation.		

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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				
Vibrocast ASC 4LG TL0918 (Mixture)				
Persistence and degradability	Not established.			
aluminium oxide, non-fibrous (1344-28-1)				
Persistence and degradability	Not applicable.			
Chemical oxygen demand (COD)	Not applicable			
ThOD	Not applicable			
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			
ThOD	Not applicable			
BOD (% of ThOD)	Not applicable			
12.3. Bioaccumulative potential				
Vibrocast ASC 4LG TL0918 (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.			
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			
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				

#### Safety Data Sheet

according to Federal Register /	Vol. 77, No. 58 / Monday, March	h 26, 2012 / Rules and Regu	llations		
Transportation of Dange Not regulated Transport by sea Not regulated Air transport Not regulated	rous Goods				
SECTION 15: Regula	atory information				
15.1. US Federal regula					
	duct are present and listed a	is Active on the United St	tates Environmental Pro	tection Agency Toxic S	Substances Control Act
aluminium oxide, non-	-fibrous (1344-28-1)				
	quirements of the United Sta				
Note	oxide contained	on 313 chemical list cont d in this product is non-fib otherwise use of aluminu	prous, and thus is not a s	section 313 material. C	ous forms)"; the Aluminum Only manufacturing,
15.2. International regu	ulations				
CANADA					
aluminium oxide, non-					
Listed on the Canadian DS	SL (Domestic Substances Lis	st)			
Calcium Aluminate Ce	amont (65007-16-2)				
	SL (Domestic Substances Lis	st)			
	-1) SL (Domestic Substances Lis	st)			
EU-Regulations No additional information av	voilable				
National regulations	/aliable				
No additional information av	vailable				
15.3. US State regulation	ons				
Vibrocast ASC 4LG TL	_0918 (Mixture)				
U.S California - Propositi	ion 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 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	level (NSRL)	dose level (MADL)
Yes	No	No	No		
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				·	
	ter / Vol. 77, No. 58 / Monda		s and Regulations		
Revision date Other information	:			any conflict between E	English and other language
Full text of hazard classe	s and H-statements	versions, the English ve	ersion shall prevail.		
	s skin irritation				
H320 Cause H350 May ca	s eye irritation				

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.