

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/15/2015 Revision date: 2/14/2025 Supersedes: 3/22/2022

SECTION 1: Identification					
1.1. Identification					
	: Mixture				
Product name	: Vibrocast 70M				
CAS-No.	Mixture				
Product code	: 0583				
Other means of identification	Alumina-Silicate	e Cement Bonde	d Castable		
1.2. Recommended use and restrictions on u					
	Refractory				
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 (CHEMTF Canada +1 703		Canada 1-800-4	424-9300
SECTION 2: Hazard(s) identification					
2.1. Classification of the substance or mixtu	re				
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		H315 H320 H350	Causes skir Causes eye May cause		on).
2.2. GHS Label elements, including precaution	onary statemen	nts			
GHS US labelling	, , , , , , , , , , , , , , , , , , , ,				
Hazard pictograms (GHS US) Signal word (GHS US)	Danger				
Hazard statements (GHS US)	H315 - Causes H320 - Causes		ation		
Precautionary statements (GHS US)	: P280 - Wear ey P305+P351+P3 contact lenses, P332+P313 - If	ve protection, Du 338 - IF IN EYES if present and ea skin irritation oc eye irritation per	st Respirato : Rinse caut asy to do. Co curs: Get me	tiously with wate ontinue rinsing. edical advice/atte	r for several minutes. Remove ention.
2.3. Other hazards which do not result in cla	ssification				
No additional information available					
2.4. Unknown acute toxicity (GHS US)					
No additional information available					
SECTION 3: Composition/information or	n ingredients				
3.1. Substances					
Not applicable					
3.2. Mixtures					
		Draduct	dontifier	0/	
Name		Product		%	GHS-US classification
aluminum oxide, non-fibrous		CAS-No.:		20 - 50	Not classified
Calcium Aluminate Cement		CAS-NO.: (	5997-16-2	5 – 10	Skin Irrit. 2, H315 Eye Irrit. 2B, H320
quartz		CAS-No.:	4808-60-7	1-5	Carc. 1A, H350
cristobalite				0.1 – 0.5	Carc. 1A, H350

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Full text of hazard classes and H-statements : see se	ction 16
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 First-aid measures after eye contact	<ul> <li>Allow affected person to breathe fresh air. Allow the victim to rest.</li> <li>Gently wash with plenty of soap and water.</li> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> </ul>
	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effects (a	
Potential adverse human health effects and symptoms	: Danger of serious damage to health by prolonged exposure through inhalation.
Symptoms/effects after inhalation	: 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 specia	
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	media
	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: In case of fire, all extinguishing media allowed.
5.2. Specific hazards arising from the chemi Fire hazard	: Not flammable.
5.3. Special protective equipment and preca	
	: Fight fire with normal precautions from a reasonable distance. Prevent fire fighting water from
	<ul> <li>entering the environment.</li> <li>Do not enter fire area without proper protective equipment, including respiratory protection.</li> </ul>
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	: Do not breathe dust. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures 6.2. Environmental precautions	: Ventilate area. On land, sweep or shovel into suitable containers.
Prevent entry to sewers and public waters.	
6.3. Methods and material for containment a	nd cleaning up
	: 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	ction.
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 raising dust.
Hygiene measures	<ul><li>Avoid contact with skin and eyes. Do not breathe dust.</li><li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.</li></ul>
7.2. Conditions for safe storage, including a	
	: Store this product in a dry location where it can be protected from the elements.
	: Strong bases. Strong acids.
SECTION 8: Exposure controls/persona	
SECTION 8: Exposure controls/persona 8.1. Control parameters	
SECTION 8: Exposure controls/persona	

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cristobalite (14464-46-1)			
USA - OSHA - Occupational Exposure Limits OSHA PEL TWA	0.05 mg/m <sup>3</sup> respirable dust		
aluminum oxide, non-fibrous (1344-28-1) USA - ACGIH - Occupational Exposure Limits			
ACGIH OEL TWA	1 mg/m <sup>3</sup> respirable dust		
quartz (14808-60-7)			
USA - ACGIH - Occupational Exposure Limits			
ACGIH OEL TWA	0.025 mg/m3 (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	0.05 mg/m <sup>3</sup> respirable dust		
Remark (OSHA)	(3) See Table Z-3.		
8.2. Appropriate engineering controls			
	: Provide adequate ventilation to minimize dust concentrations.		
8.3. Individual protection measures/Persona	al 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			
Other information: Do not eat, drink or smoke during use.			
SECTION 9: Physical and chemical prop	perties		
9.1. Information on basic physical and chem	nical properties		
Physical state	: Solid		
Appearance	: Granular mixture.		
Colour Odour	: Grey : earthy		
Odour threshold	: No data available		
рН	: ≈ 10.5		
pH solution concentration	: 10 %		
Melting point	: > 2500 °F		
Freezing point Boiling point	: No data available : No data available		
Flash point	: No data available		
Relative evaporation rate (butylacetate=1)	: No data available		
Flammability (solid, gas)	: Not flammable.		
Vapour pressure	: No data available		
Relative vapour density at 20°C	: No data available		
Relative density Solubility	: ≈ 2.5 : Slightly soluble.		
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 Explosive limits	: No data available : No data available		
Explosive infits Explosive properties	: No data available		
Oxidising properties	: No data available		
9.2. Other information			
No additional information available			

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SECTION 10: Stability and reactivity         10.1. Reactivity         Hydraulic setting,         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 avids. Strong bases.         10.6. Hazardous decomposition products         No additional information available         SECTION 11: Toxicological information         11.1. Information on valiable         SECTION 11: Toxicological effects         Acute toxicity (rema)         Acute toxicity (idemal)         I. 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))         Skin corrosion/irritation       : Causes skin irritation, pH: = 10.5         Calcium Aluminate Cement (65997-16-2)       pH         pH       6 - 7         aluminum oxide, non-fibrous (1344-28-1)       pH         pH       9 - 10.5 (aqueous suspension, 33 %)         quartz (14808-60-7)       pH         pH       6 - 7         Ser
Hydraulic setting. 10.2. Chemical stability 10.2. Chemical stability 10.3. Chemical stability 10.4. Conditions to use. 10.5. Possibility of hazardous reactions Not established. 10.4. Conditions to avoid Avoid dust formation. 10.5. Incompatible materials Storag acids. Strong bases. 10.6. Hazardous decomposition products No additional information available SECTION 11: Toxicological information SECTION 11: Toxicological effects Acute toxicity (demail) Not classified Acute toxicity (demail) Not classified Acute toxicity (demail) Not classified Acute toxicity (demail) Storag acids. Strong base 10.5. Incompatible materials Storag acids. Strong base SECTION 11: Toxicological effects Acute toxicity (demail) Not classified Acute toxicity (demail) Not classified Acute toxicity (demail) Not classified Acute toxicity (demail) Storag acids. Strong base Sections Not classified Acute toxicity (ather acids) Strong acids. Strong base Sections
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)         Acute toxicity (oral)         Xoute toxicity (inhalation)         ILD50 oral rat         Strictores and the intradiction         LD50 oral rat         > 15800 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))         LC50 Inhalation - Rat         > 10.5 angl air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Oral, 14 day(s))         Skin corrosion/irritation         pH       ≤ 13         cristobalite (14464-46-1)         pH       § - 7         aluminum oxide, non-fibrous (1344-28-1)         pH       § - 10.5 (aqueous suspension, 33 %)         quartz (14808-60-7)       pH         pH       § - 7         Ser
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 (ramal)       : Not classified         Acute toxicity (instalation)       : Not classified         Acute toxicity (instalation)       : Not classified         aluminum oxide, non-fibrous (1344-28-1)       LD50 oral rat         LD50 oral rat       > 15900 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))         Skin corrosion/irritation       : Causes skin irritation.         pH       > 2.3 mg1 air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental v         Inhalation (aceroso), 14 day(s))       Stin corrosion/irritation         pH       \$ 13         cristobalite (14464-46-1)       pH         pH       \$ -10.5 (aqueous suspension, 33 %)         quartz (14808-60-7)       pH         pH       \$ -7         Serious eye damage
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         111. Information on toxicological effects         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))         Skin corrosion/irritation       : Causes skin irritation. pH: * 10.5         Calcium Aluminate Cement (65997-16-2)       pH         pH       § - 7         aluminum oxide, non-fibrous (1344-28-1)         pH       § - 7         <
Not established. <b>10.4. Conditions to avoid</b> Avoid dust formation. <b>10.5. Incompatible materials</b> Strong acids. Strong bases. <b>10.6. Hazardous decomposition products</b> No additional information available         SECTION 11: Toxicological information <b>11.1. Information on toxicological effects</b> Acute toxicity (ofmal)       : Not classified         Acute toxicity (dermal)       : Not classified         Acute toxicity (inhalation)       : Not classified         ILD50 oral rat       > 15900 mg/kg bodyweight (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, intriation. pH: ≈ 10.5         Calcium Aluminate Cement (65997-16-2)       pH         pH       § - 7         aluminum oxide, non-fibrous (1344-28-1)       pH         pH       § - 7         aluminum oxide, non-fibrous (1344-28-1)       pH         pH
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 (inhalation)       : Not classified         atuminum 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))         LC50 Inhalation - Rat       > 15900 mg/kg bodyweight (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, oral, 14 day(s))         Skin corrosion/irritation       : Causes skin irritation. pH: = 10.5         Calcium Aluminate Cement (65997-16-2)       pH         pH       ≤ 13         cristobalite (14464-46-1)       pH         pH       § - 10.5 (aqueous suspension, 33 %)         quartz (14808-60-7)       pH         pH       § - 7         Serious eye damage/irritation       : Causes eye irritation. pH: = 10.5
Avoid dust formation. <b>10.5. Incompatible materials</b> Strong acids. Strong bases. <b>10.6. Hazardous decomposition products</b> No additional information available <b>SECTION 11: Toxicological information 11.1. Information on toxicological effects</b> Acute toxicity (dermal)         Acute toxicity (dermal)         Xoute toxicity (dermal)         Xoute toxicity (inhalation)         IDS0 oral rat         DS0 oral rat         Skin corrosion/irritation         Skin corrosion/irritation         Skin corrosion/irritation         PH         Galduminum oxide, non-fibrous (1344-28-1)         LD50 oral rat         Skin corrosion/irritation         Skin corrosion/irritation         Recuest skin irritation.         pH: < 10.5
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 (inhalation)       : Not classified         Acute toxicity (inhalation)       : Not classified         aluminum oxide, non-fibrous (1344-28-1)       LD50 oral rat         LD50 oral rat       >15900 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))         LC50 Inhalation - Rat       >13900 ari (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Oral, 14 day(s))         Skin corrosion/irritation       : Causes skin irritation. pH = 10.5         Calcium Aluminate Cement (65997-16-2)       PH         pH       ≤ 13         cristobalite (14464-46-1)       PH         pH       9 – 10.5 (aqueous suspension, 33 %)         quartz (14808-60-7)       PH         pH       6 – 7         Serious eye damage/irritation       : Causes eye irritation. pH = 10.5
Strong acids. Strong bases. <b>10.6. Hazardous decomposition products</b> No additional information available <b>SECTION 11: Toxicological information 11.1. Information on toxicological effects</b> Acute toxicity (oral)       : Not classified         Acute toxicity (dermal)       : Not classified         Acute toxicity (inhalation)       : Not classified <b>aluminum oxide, non-fibrous (1344-28-1)</b> LD50 oral rat       > 15900 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(sl))         LC50 Inhalation - Rat       > 2.3 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Oral, 14 day(sl))         Skin corrosion/irritation       : Causes skin irritation.         pH       ≤ 13 <b>cristobalite (14464-46-1)</b> pH         pH       § – 7 <b>aluminum oxide, non-fibrous (1344-28-1)</b> pH       § – 10.5 (aqueous suspension, 33 %) <b>quartz (14808-60-7)</b> pH         pH       § – 7         serious eye damage/irritation       : Causes eye irritation.         pH: = 10.5       : Suspension, 33 %)
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SECTION 11: Toxicological information         11.1. Information on toxicological effects         Acute toxicity (oral)         Acute toxicity (inhalation)       : Not classified         Acute toxicity (inhalation)       : Not classified         aluminum oxide, non-fibrous (1344-28-1)       Image: State
<b>11.1. Information on toxicological effects</b> Acute toxicity (oral)       : Not classified         Acute toxicity (demal)       : Not classified         Acute toxicity (inhalation)       : Not classified <b>aluminum oxide, non-fibrous (1344-28-1)</b> LD50 oral rat       > 15900 mg/kg bodyweight (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, Oral, 14 day(s))         Skin corrosion/irritation       : Causes skin irritation. pH: ≈ 10.5 <b>Calcium Aluminate Cement (65997-16-2)</b> pH         pH       ≤ 13         cristobalite (14464-46-1)       pH         pH       § - 7         aluminum oxide, non-fibrous (1344-28-1)       pH         pH       § - 7         serious eye damage/irritation       : Causes eye irritation. pH: ≈ 10.5
Acute toxicity (oral)       : Not classified         Acute toxicity (dermal)       : Not classified         Acute toxicity (inhalation)       : Not classified         aluminum oxide, non-fibrous (1344-28-1)       Image: Control of Contro of Control of Control of Control of Control o
Acute toxicity (dermal):Not classifiedAcute toxicity (inhalation):Not classifiedaluminum 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))LC50 Inhalation - Rat> 12 mg/ air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, oral, 14 day(s))Skin corrosion/irritation:Calcium Aluminate Cement (65997-16-2)pH≤ 13cristobalite (14464-46-1)pH6 – 7aluminum oxide, non-fibrous (1344-28-1)pH9 – 10.5 (aqueous suspension, 33 %)quartz (14808-60-7)pH6 – 7Serious eye damage/irritation:Causes eye irritation.Causes eye irritation
Acute toxicity (inhalation): Not classifiedaluminum oxide, non-fibrous (1344-28-1)
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))         LC50 Inhalation - Rat       > 2.3 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental v Inhalation (aerosol), 14 day(s))         Skin corrosion/irritation       : Causes skin irritation. pH: $\approx$ 10.5         Calcium Aluminate Cement (65997-16-2)         pH $\leq$ 13         cristobalite (14464-46-1)         pH $6 - 7$ aluminum oxide, non-fibrous (1344-28-1)         pH $9 - 10.5$ (aqueous suspension, 33 %)         quartz (14808-60-7) $\rho H$ pH $6 - 7$ Serious eye damage/irritation       : Causes eye irritation. pH: $\approx 10.5$
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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 v Inhalation (aerosol), 14 day(s))Skin corrosion/irritation: Causes skin irritation. pH: $\approx$ 10.5Calcium Aluminate Cement (65997-16-2) pHpH< 13
Inhalation (aerosol), 14 day(s))Skin corrosion/irritationpHCalcium Aluminate Cement (65997-16-2)pH $\leq 13$ cristobalite (14464-46-1)pH $6-7$ aluminum oxide, non-fibrous (1344-28-1)pH $9 - 10.5$ (aqueous suspension, 33 %)quartz (14808-60-7)pH $6-7$ Serious eye damage/irritation: Causes eye irritation.pH: $\approx 10.5$
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Calcium Aluminate Cement (65997-16-2) $pH$ $\leq 13$ cristobalite (14464-46-1) $pH$ $6-7$ aluminum oxide, non-fibrous (1344-28-1) $pH$ $9-10.5$ (aqueous suspension, 33 %)quartz (14808-60-7) $pH$ $6-7$ Serious eye damage/irritation:Causes eye irritation. $pH: \approx 10.5$
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pH $9-10.5$ (aqueous suspension, 33 %)quartz (14808-60-7)pH $6-7$ Serious eye damage/irritation: Causes eye irritation. $pH: \approx 10.5$
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pH     6 – 7       Serious eye damage/irritation     : Causes eye irritation. pH: ≈ 10.5
Serious eye damage/irritation : Causes eye irritation. pH: ≈ 10.5
pH: ≈ 10.5
Calcium Aluminate Cement (65997-16-2)
pH ≤ 13
cristobalite (14464-46-1)
pH 6-7
aluminum oxide, non-fibrous (1344-28-1)
pH 9 – 10.5 (aqueous suspension, 33 %)
quartz (14808-60-7)
pH 6-7
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : May cause cancer (Inhalation).

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quartz (14808-60-7)		
IARC group	1 - Carcinogenic to humans	
Reproductive toxicity       : Not classified         STOT-single exposure       : Not classified         STOT-repeated exposure       : Not classified         Aspiration hazard       : Not classified         /iscosity, kinematic       : Not Applicable		
aluminum oxide, non-fibrous (1344-28-1)		
Viscosity, kinematic	Not applicable (solid)	
Potential adverse human health effects and symptoms       :         symptoms       :         Symptoms/effects after inhalation       :         Symptoms/effects after skin contact       :         Symptoms/effects after skin contact       :         Symptoms/effects after eye contact       :	Danger of serious damage to health by prolonged exposure through inhalation. 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		
Vibrocast 70M (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	
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	
quartz (14808-60-7)		
Persistence and degradability	Not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
	Not applicable	
ThOD		
12.3. Bioaccumulative potential		
12.3. Bioaccumulative potential	Not established.	
12.3. Bioaccumulative potential Vibrocast 70M (Mixture)	Not established.	

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aluminum oxide, non-fibrous (1344-28-1)			
Bioaccumulative potential No data available.			
quartz (14808-60-7)			
Bioaccumulative potential No data available.			
12.4. Mobility in soil			
cristobalite (14464-46-1)			
Ecology - soil No data available.			
aluminum oxide, non-fibrous	s (1344-28-1)		
Surface tension	No data available in the literature		
Ecology - soil	No data available.		
12.5. Other adverse effects			
Effect on global warming	: None known		
SECTION 13: Disposal cor	nsiderations		
13.1. Disposal methods			
Product/Packaging disposal recomr	mendations : Dispose in a safe manner in accordance with local/national regulations.		
<b>SECTION 14: Transport in</b>	formation		
In accordance with DOT Not regulated Transportation of Dangerous Goods Not regulated Transport by sea Not regulated Air transport Not regulated			
SECTION 15: Regulatory in	nformation		
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, non-fibrous (1344-28-1)			
Not subject to reporting requirements of the United States SARA Section 313			
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. International regulations			
CANADA			
Calcium Aluminate Cement (65997-16-2)			
Listed on the Canadian DSL (Domestic Substances List)			
cristobalite (14464-46-1)			
Listed on the Canadian DSL (Domestic Substances List)			
aluminum oxide, non-fibrous (1344-28-1)			
Listed on the Canadian DSL (Domestic Substances List)			

EU-Regulations No additional information available

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National regulations	
quartz (14808-60-7)	
Listed on IARC (International Agency for Research on	Cancer)
15.3. US State regulations	
Vibrocast 70M (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 - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		

quartz (14808-60-7)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
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
Quartz (14808-60-7)	U.S New Jersey - Right to Know Hazardous Substance List
SECTION 16: Other information	

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Revision date Other information

- 2/14/2025 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		
H315	Causes skin 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, 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.