

### 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: 4/4/2025 Supersedes: 5/18/2022

SECTION 1: Identification						
1.1. Identification						
Product form	: Mixture					
Product name	: Hi Strength 25					
CAS-No. Product code	: Mixture : 0907					
Other means of identification		: Alumina-Silicate Cement Bonded Castable				
.2. Recommended use and restrictions or						
Jse 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 Jnited States T 412-494-4491 <u>Resco_SDS.TDS@rhimagnesita.com</u> - <u>WWW.Res</u> c	coProducts.com					
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 mix	ture					
GHS US classification		<b>F O</b> - <b>··</b>	indenti			
Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2B Carcinogenicity Category 1A Full text of H statements : see section 16	H31 H32 H35	Causes eye		on)		
2.2. GHS Label elements, including precau	tionary statements					
GHS US labeling Hazard pictograms (GHS US)						
Signal word (GHS US) Hazard statements (GHS US)	: Danger : H315 - Causes skin H320 - Causes eye H350 - May cause c	irritation				
Precautionary statements (GHS US)	<ul> <li>P280 - Wear eye protection, Dust respirator, protective gloves.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention.</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention.</li> <li>P260 - Do not breathe dust.</li> </ul>					
2.3. Other hazards which do not result in c	lassification					
No additional information available						
2.4. Unknown acute toxicity (GHS US)						
No additional information available						
SECTION 3: Composition/Information	on ingredients					
3.1. Substances						
Not applicable						
3.2. Mixtures						
Name		Product identifier	%	GHS US classification		
		CAS-No.: 65997-16-2	20 – 50	Skin Irrit. 2, H315		
Calcium Aluminate Cement	1			Eye Irrit. 2B, H320		

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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
First-aid measures after inhalation	<ul><li>(show the label where possible).</li><li>Allow affected person to breathe fresh air. Allow the victim to rest.</li></ul>
First-aid measures after skin contact	: 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	<ul><li>and easy to do. Continue rinsing.</li><li>Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.</li></ul>
4.2. Most important symptoms and effects (	
Potential Adverse human health effects and	: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
symptoms	
Symptoms/effects after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. May cause
Symptoms/effects after skin contact	cancer by inhalation. : Causes skin irritation.
Symptoms/effects after eye contact	: Causes eye irritation.
4.3. Immediate medical attention and specia	al treatment, if necessary
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	media
Suitable 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 chem	ical
Fire hazard	: Not flammable.
5.3. Special protective equipment and preca	
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 measur	es
6.1. Personal precautions, protective equip	ment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures 6.1.2. For emergency responders	: Do not breathe dust. Avoid contact with skin and eyes.
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 a	• •
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Minimize generation of dust.
6.4. Reference to other sections	
See Heading 8. Exposure controls and personal prote	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
	: Do not handle until all safety precautions have been read and understood. Avoid raising dust.
Precautions for safe handling	
5	Avoid contact with skin and eyes. Do not breathe dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or
Precautions for safe handling 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>
5	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Hygiene measures 7.2. Conditions for safe storage, including a Storage conditions	<ul> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.</li> <li>Inv incompatibilities</li> <li>Store this product in a dry location where it can be protected from the elements.</li> </ul>
Hygiene measures <b>7.2. Conditions for safe storage, including a</b> Storage conditions Incompatible products	<ul> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.</li> <li>Iny incompatibilities</li> <li>Store this product in a dry location where it can be protected from the elements.</li> <li>Strong bases. Strong acids.</li> </ul>
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Hygiene measures 7.2. Conditions for safe storage, including a Storage conditions Incompatible products SECTION 8: Exposure controls/persona 8.1. Control parameters cristobalite (14464-46-1)	<ul> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.</li> <li>Iny incompatibilities</li> <li>Store this product in a dry location where it can be protected from the elements.</li> <li>Strong bases. Strong acids.</li> </ul>
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8.2. Appropriate engineering controls	
Appropriate engineering controls	: Provide adequate ventilation to minimize dust concentrations.
8.3. Individual protection measures/Person	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 pro	operties
9.1. Information on basic physical and che	
Physical state	: Solid
Appearance	: Granular mixture.
Color	: brown
Odor Odor threshold	: earthy : No data available
Ddol threshold pH	. No data avaliable : ≈ 10.5
pH solution concentration	: 10 %
Melting point	: >1100 °C
Freezing point	: 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)	: Not flammable.
Vapor pressure	: No data available : No data available
Relative vapor density at 20°C Relative density	. No dala avallable : ≈2
Solubility	: ~ 2 : 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	: No data available
Explosion limits	: No data available
Explosive properties	: No data available : No data available
Oxidizing properties 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 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.	

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10.6. Hazardous decomposition products	
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
	Not classified
Acute toxicity (dermal) :	Not classified
Acute toxicity (inhalation) : Skin corrosion/irritation :	Not classified Causes skin irritation.
	pH: ≈ 10.5
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
Calcium Aluminate Cement (65997-16-2)	
рН	≤ 13
cristobalite (14464-46-1)	
рН	6 – 7
	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	May cause cancer (Inhalation).
Reproductive toxicity :	Not classified
STOT-single exposure :	Not classified
STOT-repeated exposure :	Not classified
Aspiration hazard : Viscosity, kinematic :	Not classified Not Applicable
	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
symptoms	
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.
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
Hi Strength 25 (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) ThOD	Not applicable Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
Hi Strength 25 (Mixture)	
Bioaccumulative potential	Not established.
cristobalite (14464-46-1)	
Bioaccumulative potential	No data available.
12.4. Mobility in soil	
cristobalite (14464-46-1)	
Ecology - soil	No data available.

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12.5. Other adverse ef	ffects					
Effect on the global warmin		None known				
Other information	0	No other effects known.				
SECTION 13: Dispo						
13.1. Disposal method						
-		Dianaga in a cafa mann	ar in accordance with los	al/national regulations		
Product/Packaging dispose		Dispose in a safe mann	er in accordance with loc			
SECTION 14: Trans	-					
In accordance with DOT / Department of Transpo In accordance with DOT Not regulated Transportation of Dang Not regulated Transport by sea Not regulated Air transport Not regulated	rtation (DOT)					
SECTION 15: Regul	atory information					
15.1. US Federal regu	lations					
All components of this pro (TSCA) inventory	oduct are present and listed a	s Active on the United St	tates Environmental Prot	ection Agency Toxic Su	Ibstances Control Act	
15.2. International reg	ulations					
CANADA						
<b>Calcium Aluminate C</b>						
Listed on the Canadian D	SL (Domestic Substances Lis	st)				
	\ _ \ _ \					
cristobalite (14464-46	SL (Domestic Substances Lis	ot)				
EU-Regulations	SE (Domestic Substances Lis	51)				
No additional information a	available					
National regulations						
No additional information a						
15.3. US State regulat	ions					
Hi Strength 25 (Mixtu						
U.S California - Proposi	ition 65 - Other information		crystalline silica, a chemi mation go to WWW.P65		f California to cause	
cristobalite (14464-46				No oignificant state	Movinum allawabla	
U.S California - Proposition 65 -	U.S California - Proposition 65 -	U.S California - Proposition 65 -	U.S California - Proposition 65 -	No significant risk level (NSRL)	Maximum allowable dose level (MADL)	
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male			
Yes	No	No	No			
	·		·			
Component		State or local regul				
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	information					
	ster / Vol. 77, No. 58 / Monda		s and Regulations			
Revision date		4/4/2025	Exallely to d		all a la secola di setta di se	
Other information	:	Report language name. versions, the English ve		any conflict between Er	iglish and other language	
Full text of hazard classe		· · · · ·				
	s skin irritation					
	ause cancer					
Safety Data Sheet (SDS),	UGA	are taken from courses h	alioved to be accurate a	a of the data horain ha	wayar DUI Magaaaita	

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