

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 03/15/2015 Revision date: 12/11/2024 Supersedes: 11/22/2021

SECTION 1: Identification			
1.1. Identification			
Product form Product name CAS-No. Product code Other means of identification	: Mixture : Unicrete 28 LI : Mixture : 3124 : Alumina-Silicate Cement Bonded Castable	9	
I.2. Recommended use and restrictions on	se		
Jse of the substance/mixture Recommended use	: Refractory : Industrial use		
1.3. Supplier			
Resco Products, Inc. One Robinson Plaza, Suite 300 6600 Steubenville Pike Pittsburgh, PA, 15205 United States T 412-494-4491 SDS@RescoProducts.com - WWW.RescoProducts	<u>om</u>		
1.4. Emergency telephone number			
Emergency number	EMERGENCY ONLY (CHEMTREC) USA	& Canada 1-80	00-424-9300
	Outside USA & Canada +1 703-741-5970		
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or mixed	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	H320 Causes ey	kin irritation /e irritation e cancer (Inhal	lation)
2.2. GHS Label elements, including precau	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>P280 - 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 c	ssification		
No additional information available			
2.4. Unknown acute toxicity (GHS US) No additional information available			
SECTION 3: Composition/Information	n ingredients		
· ·			
3.1. Substances Not applicable			
3.2. Mixtures			
Name	Product identifier	%	GHS US classification
Name	CAS-No.: 65997-16-2		Skin Irrit. 2, H315
Calcium Aluminate Cement			
Calcium Aluminate Cement	CAS-No.: 14464-46-1	40.00	Eye Irrit. 2B, H320 Carc. 1A, H350

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SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	<ul> <li>Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).</li> </ul>
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
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 and easy to do. Continue rinsing.
First-aid measures after ingestion	: 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	: 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	
	a modia
5.1. Suitable (and unsuitable) extinguishing	
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 chem	
Fire hazard	: Not flammable.
5.3. Special protective equipment and prec	autions 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 measur	res
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	and cleaning up
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 prot	tection.
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	
Storage conditions	: Store this product in a dry location where it can be protected from the elements.
Incompatible products	<ul><li>Store this product in a dry location where it can be protected from the elements.</li><li>Strong bases. Strong acids.</li></ul>
Incompatible products SECTION 8: Exposure controls/person	<ul><li>Store this product in a dry location where it can be protected from the elements.</li><li>Strong bases. Strong acids.</li></ul>
Incompatible products SECTION 8: Exposure controls/person 8.1. Control parameters	<ul><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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Incompatible products SECTION 8: Exposure controls/person 8.1. Control parameters cristobalite (14464-46-1) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA	<ul><li>Store this product in a dry location where it can be protected from the elements.</li><li>Strong bases. Strong acids.</li></ul>
Incompatible products SECTION 8: Exposure controls/person 8.1. Control parameters cristobalite (14464-46-1) USA - ACGIH - Occupational Exposure Limits	Store this product in a dry location where it can be protected from the elements.     Strong bases. Strong acids. al protection

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USA - ACOLH - Occupational Exposure Limits         0.025 mg/m² (Sitica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TUV - ACGH OEL TWA           USA - OSHA - Occupational Exposure Limits         0.025 mg/m² (Sitica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TUV - ACGH OEL TWA           USA - OSHA - Occupational Exposure Limits         0.05 mg/m² (Sitica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TUV - ACGH OEL TWA           USA - OSHA - Occupational Exposure Limits         0.05 mg/m² (Sitica-Crystalline Quartz; Tespirable dust           S2, Appropriate engineering controls         1 (Sitea, crystalline Quartz; Tespirable dust           S4, TWA         0.05 mg/m² (Sitea - Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TUV - Magnetica engineering controls           S4, Appropriate engineering controls         1 Poride adequate ventilation to minimize dust concentrations.           S4, Appropriate engineering controls         1 Poride adequate ventilation to minimize dust concentrations.           S4, Appropriate engineering controls         1 Poride adequate ventilation to minimize dust concentrations.           Wear protective gloves.         Exportection:           Wear protective gloves.         Exportection:           Wear appropriate mask         1 Information on basic physical and chemical properties           S4, Information on basic physical and chemical properties         S4, Information on basic physical and chemical properties           S4, Info	· · · · · · · · · · · · · · · · · · ·		
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Boiling point       : No data available         Flash point       : No data available         Relative evaporation rate (butyl acetate=1)       : No data available         Flammability (solid, gas)       : No data available         Vapor pressure       : No data available         Relative vapor density at 20°C       : No data available         Relative density       : a 1.7         Solubility       : Slightly soluble.         Partition coefficient n-octanol/water (Log Pow)       : No data available         Auto-ignition temperature       : No data available         Viscosity, kinematic       : No data available         Viscosity, kinematic       : No data available         Explosion limits       : No data available         Explosion limits       : No data available         Explosion limits       : No data available         Suidizing properties       : No data available         Oxidizing properties       : No data available         Suidizing properties			
Flash point       : No data available         Relative evaporation rate (butyl acetate=1)       : No data available         Flammability (solid, gas)       : Not flammable.         Vapor pressure       : No data available         Relative vapor density at 20°C       : No data available         Relative density       : a 1.7         Solubility       : Slightly soluble.         Partition coefficient n-octanol/water (Log Pow)       : No data available         Auto-ignition temperature       : No data available         Oecomposition temperature       : No data available         Viscosity, kinematic       : No data available         Viscosity, dynamic       : No data available         Explosion limits       : No data available         Explosion limits       : No data available         Dxidzing properties       : No data available         Dxidzing properties <td></td> <td></td>			
Relative evaporation rate (butyl acetate=1)       : No data available         Flammability (solid, gas)       : No data available         Vapor pressure       : No data available         Relative vapor density at 20°C       : No data available         Relative density       : a 1.7         Solubility       : Slightly soluble.         Partition coefficient n-octanol/water (Log Pow)       : No data available         Quecomposition temperature       : No data available         Viscosity, kinematic       : No data available         Viscosity, dynamic       : No data available         Explosion limits       : No data available         Explosive properties       : No data available         Oxidizing properties       : No data available         Viscosity, dynamic       : No data available         Explosive properties       : No data available         Oxidizing notemperature       : No data available         Data available       : No data available         Explosion limits       : No data available         Oxidizing properties       : No data available         Oxidizing p			
Flammability (solid, gas)       : Not flammable.         Vapor pressure       : No data available         Relative vapor density at 20°C       : No data available         Relative density       : a 1.7         Solubility       : 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 flammable.         Viscosity, dynamic       : No data available         Explosion limits       : No data available         Explosing properties       : No data available         Oxidizing properties       : No data available         Viscosity, dynamic       : No data available         Explosion limits       : No data available         Stightly soluble.       : No data available         Stightly, dynamic       : No data available         Stightly, dynamic       : No data available         Stightly properties       : No data available         Stightly properties       : No data available         Oxidizing properties       : No data available         Oxidizing normation       : No data available         No additional information available			
Relative vapor density at 20°C       : No data available         Relative density       : ≈ 1.7         Solubility       : 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       : No data available         Viscosity, dynamic       : No data available         Explosion limits       : No data available         Explosive properties       : No data available         Oxidizing properties       : No data available         9.2. Other information       Wo additional information available	Flammability (solid, gas)	: Not flammable.	
Relative density       : ≈ 1.7         Solubility       : 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         Explosion properties       : No data available         Oxidizing properties       : No data available         9.2. Other information       Wo additional information available	Vapor pressure	: No data available	
Solubility       :       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       :       No data available         Viscosity, dynamic       :       No data available         Explosion limits       :       No data available         Explosive properties       :       No data available         Oxidizing properties       :       No data available         9.2. Other information       Wo additional information available			
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         Explosion limits       : No data available         Dxidzing properties       : No data available         9.2. Other information       Wo additional information 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         Oxidizing properties       : No data available         9.2. Other information       Wo additional information 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         Oxidizing properties       : No data available         9.2. Other information       Wo additional information available			
Viscosity, kinematic : Not Applicable Viscosity, dynamic : No data available Explosion limits : No data available Explosive properties : No data available Oxidizing properties : No data available <b>9.2. Other information</b> No additional information available	Decomposition temperature		
Explosion limits       : No data available         Explosive properties       : No data available         Oxidizing properties       : No data available <b>9.2. Other information</b>	Viscosity, kinematic		
Explosive properties       : No data available         Oxidizing properties       : No data available         9.2. Other information	Viscosity, dynamic		
Dxidizing properties       : No data available         9.2. Other information         No additional information available			
9.2. Other information No additional information available			
No additional information available			
	SECTION 10: Stability and reactivity		
	10.1. Reactivity		
	Hydraulic setting.		
10.1. Reactivity			

Hydraulic setting.

10.2. Chemical stability

Stable under normal conditions of use.

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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	
	Not classified
Acute toxicity (dermal) : Acute toxicity (inhalation) :	Not classified Not classified
Skin corrosion/irritation :	Causes skin irritation.
	pH: ≈ 10.5
Calcium Aluminate Cement (65997-16-2)	
рН	≤ 13
cristobalite (14464-46-1)	
рН	6 – 7
quartz (14808-60-7)	
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
quartz (14808-60-7)	
pH	6 – 7
	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	May cause cancer (Inhalation).
quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans
, ,	Not classified
STOT-single exposure :	Not classified
STOT-repeated exposure :	Not classified Not classified
Aspiration hazard : Viscosity, kinematic :	Not classified Not Applicable
Potential Adverse human health effects and :	Danger of serious damage to health by prolonged exposure through inhalation.
symptoms	
	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

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12.2. Persistence and degradability	
Unicrete 28 LI (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
quartz (14808-60-7)	
Persistence and degradability	Not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
12.3. Bioaccumulative potential	
Unicrete 28 LI (Mixture)	
Bioaccumulative potential	Not established.
cristobalite (14464-46-1)	
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.
12.5. Other adverse effects	
Effect on the global warming Other information	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 Net sequenced	
Not regulated SECTION 15: Regulatory information	
15.1. US Federal regulations	
	as Active on the United States Environmental Protection Agency Taxis Substances Control Act

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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15.2. International regulations					
CANADA					
Calcium Aluminate Ce	ment (65997-16-2)				
Listed on the Canadian DS	L (Domestic Substances Lis	t)			
cristobalite (14464-46-	1)				
Listed on the Canadian DS	L (Domestic Substances Lis	t)			
EU-Regulations No additional information av National regulations	ailable				
quartz (14808-60-7)					
Listed on IARC (Internation	Listed on IARC (International Agency for Research on Cancer)				
15.3. US State regulation	ons				
Unicrete 28 LI (Mixture	2)				
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			f California to cause		
cristobalite (14464-46-					
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		
guartz (14808-60-7)					

U.S California -	U.S California -	U.S California -	No significant risk	Maximum allowable
Proposition 65 -	Proposition 65 -	Proposition 65 -	level (NSRL)	dose level (MADL)
Developmental Toxicity	Reproductive Toxicity	Reproductive Toxicity		
	- Female	- Male		
No	No	No		
	Proposition 65 - Developmental Toxicity	Proposition 65 - Developmental Toxicity - Female	Proposition 65 -         Proposition 65 -         Proposition 65 -           Developmental Toxicity         Reproductive Toxicity         Reproductive Toxicity           - Female         - Male	Proposition 65 - Developmental Toxicity         Proposition 65 - Reproductive Toxicity - Female         Proposition 65 - Reproductive Toxicity - Male         level (NSRL)

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
Quartz (14808-60-7)	U.S New Jersey - Right to Know Hazardous Substance List
SECTION 16: Other information	

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Other information

12/11/2024
 Report language name. English. In the event of any conflict between 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		

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.