

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 6/25/2015 Revision date: 12/13/2024 Supersedes: 12/30/2021

SECTION 1: Identification					
1.1. Identification					
Product form Product name CAS-No. Product code Other means of identification	: Mixture : Unicrete 80LC S0 : Mixture : 3648 : Alumina-Silicate		Castable		
1.2. Recommended use and restrictions on			Cactable		
Use of the substance/mixture	: Refractory				
Recommended use	: 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 <u>SDS@RescoProducts.com</u> - <u>WWW.RescoProducts.co</u>	<u>:om</u>				
1.4. Emergency telephone number					
Emergency number	: EMERGENCY O Outside USA & C			Canada 1-800-	424-9300
SECTION 2: Hazard(s) identification			11 0010		
2.1. Classification of the substance or mixtu	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	F	1320 C	auses skir auses eye lay cause (on)
2.2. GHS Label elements, including precaut	onary statements	S			
GHS US labeling Hazard pictograms (GHS US)					
Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US)	 Danger H315 - Causes sl H320 - Causes e H350 - May caus P280 - Wear eye 	ye irritation e cancer (Inhalat protection, Dust	respirator		
	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.				
2.3. Other hazards which do not result in cla	assification				
No additional information available					
2.4. Unknown acute toxicity (GHS US)					
No additional information available					
SECTION 3: Composition/Information o	n Ingredients				
3.1. Substances					
Not applicable					
3.2. Mixtures					
Name		Product id		%	GHS US classification
aluminium oxide, non-fibrous silicon carbide		CAS-No.: 13 CAS-No.: 40		50 – 75 10 – 20	Not classified Carc. 1B, H350
Calcium Aluminate Cement		CAS-No.: 65		5 – 10	Skin Irrit. 2, H315 Eye Irrit. 2B, H320
cristobalite		CAS-No.: 14	464-46-1	0.5 – 1	Carc. 1A, H350

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Full text of hazard classes and H-statements : see se	ection 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	: Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact First-aid measures after eye contact	: Gently wash with plenty of soap and water. : 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 (
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	: 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 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 preca	autions for fire-fighters
Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Prevent fire-fighting water from
Protection during firefighting	entering environment. : 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	Denot be all the deat. And it control with a big and success
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.	
Prevent entry to sewers and public waters. 6.3. Methods and material for containment a	and cleaning up
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Prevent entry to sewers and public waters. 6.3. Methods and material for containment a Methods for cleaning up 6.4. Reference to other sections	and cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust.
Prevent entry to sewers and public waters. 6.3. Methods and material for containment a Methods for cleaning up	and cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust.
Prevent entry to sewers and public waters. 6.3. Methods and material for containment a Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and personal prot SECTION 7: Handling and storage	and cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust.
Prevent entry to sewers and public waters. 6.3. Methods and material for containment a Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and personal prot	 and cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. ection. : Do not handle until all safety precautions have been read and understood. Avoid raising dust.
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Prevent entry to sewers and public waters. 6.3. Methods and material for containment a Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and personal prot SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, including a Storage conditions	 and cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. ection. : Do not handle until all safety precautions have been read and understood. Avoid raising dust. 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 smoking and when leaving work. any incompatibilities : Store this product in a dry location where it can be protected from the elements.
Prevent entry to sewers and public waters. 6.3. Methods and material for containment a Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and personal prot SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, including a Storage conditions Incompatible products	 and cleaning up On land, sweep or shovel into suitable containers. Minimize generation of dust. ection. Do not handle until all safety precautions have been read and understood. Avoid raising dust. 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 smoking and when leaving work. any incompatibilities Store this product in a dry location where it can be protected from the elements. Strong bases. Strong acids.
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cristobalite (14464-46-1)	
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	0.05 mg/m ³ respirable dust
silicon carbide (409-21-2)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	3 mg/m ³ (Silicon carbide, nonfibrous; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction. The value is for particulate matter containing no asbestos and < 1% crystalline silica.
aluminium oxide, non-fibrous (1344-28-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1 mg/m ³ respirable dust
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 cher	mical properties
Physical state	: Solid
Appearance Color	: Granular mixture.
Odor	: Gray : earthy
Odor threshold	: No data available
рН	: ≈ 10.5
pH solution concentration	: 10 %
Melting point	: > 2500 °F
Freezing point	: No data available
Boiling point	: No data available
Flash point Relative evaporation rate (butyl acetate=1)	: No data available : No data available
Flammability (solid, gas)	: Not flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: Slightly soluble 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 Explosion limits	: No data available
Explosion limits Explosive properties	: No data available : No data available
Oxidizing properties	: No data available
9.2. Other information	
No additional information available	

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 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
silicon carbide (409-21-2)	
· · ·	
LD50 oral rat	> 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)
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
Calcium Aluminate Cement (65997-16-2)	
рН	≤ 13
cristobalite (14464-46-1)	· · · · · · · · · · · · · · · · · · ·
рН	6 - 7
silicon carbide (409-21-2)	
рН	Not applicable (non-soluble in water), CIPAC MT 75: Determination of pH
aluminium oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)
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
silicon carbide (409-21-2)	
рН	Not applicable (non-soluble in water), CIPAC MT 75: Determination of pH

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aluminium oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)
	Not classified
Germ cell mutagenicity : Carcinogenicity :	Not classified May cause cancer (Inhalation).
silicon carbide (409-21-2)	
IARC group	2A - Probably carcinogenic to humans
	Not classified
STOT-single exposure : STOT-repeated exposure :	Not classified Not classified
Aspiration hazard :	Not classified
Viscosity, kinematic : silicon carbide (409-21-2)	Not Applicable
Viscosity, kinematic	Not applicable (solid)
aluminium oxide, non-fibrous (1344-28-1)	
Viscosity, kinematic	Not applicable (solid)
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.
Symptoms/effects after eye contact	Causes eye irritation.
SECTION 12: Ecological information	
12.1. Toxicity	
silicon carbide (409-21-2)	
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 48 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
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	
Unicrete 80LC SC15 (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
silicon carbide (409-21-2)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

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Department of Transportation (DOT) In accordance with DOT Not regulated Transportation of Dangerous Goods Not regulated Transport by sea Not regulated Air transport Not regulated	aluminium oxide, non-fibrous (1344-28-1)	
ThOD Not applicable 12.3. Bioaccumulative potential Inicrete 80LC SC15 (Mixture) Bioaccumulative potential Not established. cristobalite (14464-46-1) Bioaccumulative potential Bioaccumulative potential Not destablished. cristobalite (14464-46-1) Bioaccumulative potential Bioaccumulative potential Not bioaccumulative. aluminium oxide, non-fibrous (1344-28-1) Bioaccumulative potential Bioaccumulative potential No data available. 12.4. Mobility in soil Cristobalite (14464-46-1) Ecology - soil No data available. Sufface tension No data available. Sufface tension No data available in the literature Ecology - soil Low potential for adsorption in soil. aluminium oxide, non-fibrous (1344-28-1) Sufface tension Sufface tension No data available in the literature Ecology - soil Low potential for adsorption in soil. 21.5. Other adverse effects Effect on the global warming Fiftet on the global warming : Nor known Steret onte global warming : Nor known Steret Orth 13: Disposal consliderations : Dispose in a safe manner	Persistence and degradability	Not applicable.
12.3. Bioaccumulative potential Unicrete 80LC SC15 (Mixture) Bioaccumulative potential Not established. cristobalite (14464-61-1) Bioaccumulative potential No data available. silicon carbide (409-21-2) Bioaccumulative potential Not data available. aluminium oxide, non-fibrous (1344-28-1) Bioaccumulative potential No data available. 2.4. Mobility in soil Cristobalite (14464-46-1) Ecology - soil No data available. silicon carbide (409-21-2) Surface tension No data available in the literature Ecology - soil Low potential for adsorption in soil. aluminium oxide, non-fibrous (1344-28-1) Surface tension Surface tension No data available in the literature Ecology - soil No data available in the literature Ecology - soil No data available. 125. Other adverse effects Surface tension Effect on the global warming No konwn Sterrout / 12 rensport information No other effects known. 131. Disposal methods Dispose in a safe manner in accordance with local/mational regulations. Sterrout / 12 rensport informati	Chemical oxygen demand (COD)	Not applicable
Unicrete 80LC SC15 (Mixture) Bioaccumulative potential Not established. cristobalite (14464-61-) Bioaccumulative potential Not data available. silicon carbide (409-21-2) Bioaccumulative potential Not bioaccumulative. atuminium oxide, non-fibrous (1344-28-1) Bioaccumulative potential Not data available. 12.4. Mobility in soil cristobalite (14464-61-) Ecology - soil No data available. silicon carbide (409-21-2) Surface tension No data available in the literature Ecology - soil Low potential for adsorption in soil. atuminium oxide, non-fibrous (1344-28-1) Surface tension Surface tension No data available in the literature Ecology - soil Low potential for adsorption in soil. atume tension No data available in the literature Ecology - soil No data available in the literature Ecology - soil No k data available in the literature Ecology - soil No k data available in the literature Peoducy Packing disposal recommendations No tenside 12.5. Other adverse effects	ThOD	Not applicable
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Bioaccumulative potential No data available. silicon carbide (409-21-2) Not bioaccumulative. aluminium oxide, non-fibrous (1344-28-1) Image: Comparison of Comparison	Bioaccumulative potential	Not established.
Silicon carbide (409-21-2) Bioaccumulative potential Not bioaccumulative. aluminium oxide, non-fibrous (1344-28-1) Bioaccumulative potential Bioaccumulative potential No data available. 12.4. Mobility in soil Cristobalite (14464-46-1) Ecology - soil No data available. Silicon carbide (409-21-2) Surface tension Surface tension No data available in the literature Ecology - soil Low potential for adsorption in soil. aluminium oxide, non-fibrous (1344-28-1) Surface tension Surface tension No data available in the literature Ecology - soil No data available. 12.5. Other adverse effects Effect on the global warming Effect on the global warming No data available. 13.1. Disposal considerations So other effects known. SECTION 13: Disposal recommendations Dispose in a safe manner in accordance with local/national regulations. SECTION 14: Transport information In accordance with DOT Trops (MOS / MIS / M	cristobalite (14464-46-1)	
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12.4. Mobility in soil cristobalite (14464-46-1) Ecology - soil No data available. silicon carbide (409-21-2) Surface tension No data available in the literature Ecology - soil Low potential for adsorption in soil. aluminium oxide, non-fibrous (1344-28-1) Surface tension No data available in the literature Ecology - soil No data available in the literature Ecology - soil No data available. 12.5. Other adverse effects Effect on the global warming Effect on the global warming None known Other information No other effects known. SECTION 13: Disposal considerations Ibispose in a safe manner in accordance with local/national regulations. SECTION 14: Transport information Ibispose in a safe manner in accordance with local/national regulations. In accordance with DOT / TDG / IMDG / IATA Department of Transport information In accordance with DOT / TDG / IMDG / IATA More gulated Transport by sea Not regulated Transport by sea Not regulated Transport by sea Not regulated Transport by sea SECTION 15: Regulatory information SECTION 15: Regula	aluminium oxide, non-fibrous (1344-28-1)	
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All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act	SECTION 15: Regulatory information	
	15.1. US Federal regulations	
		as Active on the United States Environmental Protection Agency Toxic Substances Control Act

aluminium oxide, non-fibrous (1344-28-1)

Not subject to reporting requirements of the United States SARA Section 313

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

aluminium oxide, non-	-fibrous (1344-28-1)				
Note	oxide contained in th	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 regu	ulations				
CANADA					
Calcium Aluminate Ce	ement (65997-16-2)				
Listed on the Canadian DS	SL (Domestic Substances Lis	st)			
cristobalite (14464-46-	1)				
Listed on the Canadian DS	L (Domestic Substances Lis	it)			
silicon carbide (409-24	1-2)				
Listed on the Canadian DS	L (Domestic Substances Lis	st)			
aluminium oxide, non-	-fibrous (1344-28-1)				
Listed on the Canadian DS	L (Domestic Substances Lis	it)			
EU-Regulations No additional information av National regulations	vailable				
silicon carbide (409-2	1-2)				
Listed on IARC (Internation	nal Agency for Research on	Cancer)			
15.3. US State regulation	ons				
Unicrete 80LC SC15 (Mixture)				
U.S California - Propositi	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			of California to cause	
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		

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
silicon carbide (409-21-2)	U.S New Jersey - Right to Know Hazardous Substance List
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

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date : 12/13/2024 Other information : 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 Shoet (SDS) LISA		

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.