

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 11/05/2021 Revision date: 11/05/2021 Supersedes: 03/04/2019

SECTION 1: Identification					
I.1. Identification					
Product form	: Mixture				
Product name	: Sureflow 17A				
CAS-No.					
	: Mixture				
Product code	: 0357				
Other means of identification	: Alumina Cement Bonded Castable				
.2. Recommended use and restrictions o					
Use of the substance/mixture	: Refractory				
Recommended use	: Industrial use				
.3. Supplier					
Resco Products, Inc. One Robinson Plaza, Suite 300 6600 Steubenville Pike Pittsburgh, PA 15205 - United States 412-494-4491					
SDS@RescoProducts.com - WWW.RescoProdu	cts.com				
	<u>513.0011</u>				
.4. Emergency telephone number			000 101 0000		
Emergency number	: EMERGENCY ONLY (CHI		-800-424-9300		
	Outside USA & Canada +1	703-741-5970			
ECTION 2: Hazard(s) identification					
.1. Classification of the substance or mix	ture				
GHS US classification					
Skin corrosion/irritation Category 2	H315 Causes skin irritation				
Serious eye damage/eye irritation Category 2B	H320 Causes eye irritation				
Carcinogenicity Category 1A	H350 May cause cancer (Inl	iaiau011)			
ull text of H statements : see section 16					
.2. GHS Label elements, including precat	itionary statements				
HS US labeling					
Hazard pictograms (GHS US)					
Signal word (GHS US) Hazard statements (GHS US)	d statements (GHS US) : H315 - Causes skin irritation H320 - Causes eye irritation H350 - May cause cancer (Inhalation)				
Precautionary statements (GHS US)	contact lenses, if present a P332+P313 - If skin irritatio P337+P313 - If eye irritatio	nd easy to do. Continue rin on occurs: Get medical advi in persists: Get medical adv	sing. ce/attention. rice/attention.		
	contact lenses, if present a P332+P313 - If skin irritatio P337+P313 - If eye irritatio P260 - Do not breathe dus	nd easy to do. Continue rin on occurs: Get medical advi	sing. ce/attention. rice/attention.		
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	<b>.</b>	
		: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if preser and easy to do. Continue rinsing.
		: Rinse mouth. Get medical advice/attention if you feel unwell. Do not induce vomiting.
	Most important symptoms and effects ( ns/effects after inhalation	<ul> <li>May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation.</li> </ul>
Symptom	os/effects after skin contact	: Causes skin irritation.
Symptoms/effects after skin contact Symptoms/effects after eye contact		: Causes skin initiation.
3. I	mmediate medical attention and specia	
	nal information available	······································
ECTIO	N 5: Fire-fighting measures	
1. 5	Suitable (and unsuitable) extinguishing	a media
		: Use extinguishing media appropriate for surrounding fire.
	le extinguishing media	: In case of fire, all extinguishing media allowed.
	Specific hazards arising from the chem	
Fire haza		: Non-flammable.
	Special protective equipment and prec	
		: No specific fire-fighting instructions required.
	n during firefighting N 6: Accidental release measu	: Do not enter fire area without proper protective equipment, including respiratory protection.
	Personal precautions, protective equip	ment and emergency procedures
	For non-emergency personnel e equipment	: Avoid creating or spreading dust.
	For emergency responders	
		: Equip cleanup crew with proper protection.
	Environmental precautions	
	try to sewers and public waters.	
	Methods and material for containment	
For conta		: Collect spillage.
	for cleaning up Reference to other sections	: On land, sweep or shovel into suitable containers.
	nal information available	
	N 7: Handling and storage	
	Precautions for safe handling	
		: Do not handle until all safety precautions have been read and understood. Avoid contact with
ricoadic	she for bare handling	skin and eyes. Do not breathe dust.
Hygiene	measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
.2. (	Conditions for safe storage, including a	any incompatibilities
		: Store this product in a dry location where it can be protected from the elements.
		: Strong bases. Strong acids.
ECTIO	N 8: Exposure controls/person	al protection
	Control parameters	
Sureflo	ow 17A (Mixture)	
No add	itional information available	
alumin	ium oxide, non-fibrous (1344-28-1)	
	ACGIH - Occupational Exposure Limits	
USA - A		
		1 mg/m <sup>3</sup> respirable dust
ACGIH	TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> respirable dust
ACGIH Calciur	TWA (mg/m³) n Aluminate Cement (65997-16-2)	1 mg/m <sup>3</sup> respirable dust
ACGIH Calciur No add	TWA (mg/m³) n Aluminate Cement (65997-16-2) itional information available	1 mg/m <sup>3</sup> respirable dust
ACGIH Calciur No add	TWA (mg/m <sup>3</sup> ) n Aluminate Cement (65997-16-2) itional information available alite (14464-46-1)	
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ACGIH Calciur No add cristob USA - A ACGIH	TWA (mg/m <sup>3</sup> ) n Aluminate Cement (65997-16-2) itional information available alite (14464-46-1) ACGIH - Occupational Exposure Limits TWA (mg/m <sup>3</sup> )	
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ACGIH Calciur No add Cristob USA - A ACGIH USA - C	TWA (mg/m <sup>3</sup> ) n Aluminate Cement (65997-16-2) itional information available alite (14464-46-1) ACGIH - Occupational Exposure Limits TWA (mg/m <sup>3</sup> )	
ACGIH Calciur No addi Cristob USA - A ACGIH USA - C OSHA I	TWA (mg/m <sup>3</sup> ) n Aluminate Cement (65997-16-2) itional information available alite (14464-46-1) ACGIH - Occupational Exposure Limits TWA (mg/m <sup>3</sup> ) DSHA - Occupational Exposure Limits	0.025 mg/m <sup>3</sup> respirable dust
ACGIH Calciur No add Cristob USA - A ACGIH USA - C OSHA I	TWA (mg/m <sup>3</sup> ) n Aluminate Cement (65997-16-2) itional information available alite (14464-46-1) ACGIH - Occupational Exposure Limits TWA (mg/m <sup>3</sup> ) DSHA - Occupational Exposure Limits PEL (TWA) (mg/m <sup>3</sup> ) Appropriate engineering controls ate engineering controls	0.025 mg/m <sup>3</sup> respirable dust 0.05 mg/m <sup>3</sup> respirable dust : Provide adequate ventilation to minimize dust concentrations.
ACGIH Calciur No addi Cristob USA - A ACGIH USA - C OSHA I .2. Appropria	TWA (mg/m <sup>3</sup> ) <b>n Aluminate Cement (65997-16-2)</b> itional information available <b>alite (14464-46-1)</b> <b>ACGIH - Occupational Exposure Limits</b> TWA (mg/m <sup>3</sup> ) <b>DSHA - Occupational Exposure Limits</b> PEL (TWA) (mg/m <sup>3</sup> ) <b>Appropriate engineering controls</b> ate engineering controls <b>ndividual protection measures/Person</b>	0.025 mg/m <sup>3</sup> respirable dust 0.05 mg/m <sup>3</sup> respirable dust : Provide adequate ventilation to minimize dust concentrations.
ACGIH Calciur No addi Cristob USA - A ACGIH USA - C OSHA I 3.2. Appropria 3.3.	TWA (mg/m <sup>3</sup> ) n Aluminate Cement (65997-16-2) itional information available alite (14464-46-1) ACGIH - Occupational Exposure Limits TWA (mg/m <sup>3</sup> ) DSHA - Occupational Exposure Limits PEL (TWA) (mg/m <sup>3</sup> ) Appropriate engineering controls ate engineering controls ndividual protection measures/Person I protective equipment:	0.025 mg/m <sup>3</sup> respirable dust 0.05 mg/m <sup>3</sup> respirable dust : Provide adequate ventilation to minimize dust concentrations.
ACGIH Calciur No add Cristob USA - A ACGIH USA - C OSHA Appropria 3.3. Persona Avoid all	TWA (mg/m <sup>3</sup> ) n Aluminate Cement (65997-16-2) itional information available alite (14464-46-1) ACGIH - Occupational Exposure Limits TWA (mg/m <sup>3</sup> ) DSHA - Occupational Exposure Limits PEL (TWA) (mg/m <sup>3</sup> ) Appropriate engineering controls ate engineering controls ndividual protection measures/Person I protective equipment: unnecessary exposure.	0.025 mg/m <sup>3</sup> respirable dust 0.05 mg/m <sup>3</sup> respirable dust : Provide adequate ventilation to minimize dust concentrations.
ACGIH Calciur No addi Cristob USA - A ACGIH USA - C OSHA I .2. Appropria .3. Persona Avoid all Hand p	TWA (mg/m <sup>3</sup> ) <b>n Aluminate Cement (65997-16-2)</b> itional information available <b>alite (14464-46-1)</b> <b>ACGIH - Occupational Exposure Limits</b> TWA (mg/m <sup>3</sup> ) <b>DSHA - Occupational Exposure Limits</b> PEL (TWA) (mg/m <sup>3</sup> ) <b>Appropriate engineering controls</b> ate engineering controls <b>ndividual protection measures/Person</b> <b>I protective equipment:</b> unnecessary exposure. <b>brotection:</b>	0.025 mg/m <sup>3</sup> respirable dust 0.05 mg/m <sup>3</sup> respirable dust : Provide adequate ventilation to minimize dust concentrations.
ACGIH Calciur No addi Cristob USA - A ACGIH USA - C OSHA I COSHA I COSHA I COSHA I Appropria Appropria Avoid all Hand p Wear p	TWA (mg/m <sup>3</sup> ) n Aluminate Cement (65997-16-2) itional information available alite (14464-46-1) ACGIH - Occupational Exposure Limits TWA (mg/m <sup>3</sup> ) DSHA - Occupational Exposure Limits PEL (TWA) (mg/m <sup>3</sup> ) Appropriate engineering controls ate engineering controls ndividual protection measures/Person I protective equipment: unnecessary exposure.	0.025 mg/m <sup>3</sup> respirable dust 0.05 mg/m <sup>3</sup> respirable dust : Provide adequate ventilation to minimize dust concentrations.

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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 when using this produ	
SECTION 9: Physical and chemical pr	
9.1. Information on basic physical and che Physical state	emical properties : Solid
Appearance Color	: Granular mixture. : white
Odor	: odorless
Odor threshold	: No data available
рН	: No data available
, Melting point	: > 3000 °F
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)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: ≈2.8
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	: 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 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 No additional information available	
10.4. Conditions to avoid	
No additional information available 10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition products	
No additional information available SECTION 11: Toxicological informatio	n
11.1. Information on toxicological effects Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
aluminium oxide, non-fibrous (1344-28-1)	A 15000 mailer bady weight (Empirelant as similar to OFOD 101. Date Male // as all
LD50 oral rat	> 15900 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)
LC50 Inhalation - Rat	7.6 mg/l air (Equivalent or similar to OECD 403, 1 h, Rat, Male, Experimental value, Inhalation (aerosol))
Skin corrosion/irritation Serious eye damage/irritation	Causes skin irritation.     Causes eye irritation.
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Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: May cause cancer (Inhalation).		
Reproductive toxicity	: Not classified		
STOT-single exposure STOT-repeated exposure	: Not classified : Not classified		
Aspiration hazard	: Not classified		
Viscosity, kinematic	: No data available		
Symptoms/effects after inhalation	: May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure		
Symptoms/effects after skin contact	through inhalation. : Causes skin irritation.		
Symptoms/effects after eye contact	: Causes eye irritation.		
<b>SECTION 12: Ecological informatic</b>			
12.1. Toxicity			
No additional information available			
12.2. Persistence and degradability			
aluminium oxide, non-fibrous (1344-28-1	)		
Persistence and degradability	Not applicable.		
Chemical oxygen demand (COD)	Not applicable		
ThOD	Not applicable		
-			
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			
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	)		
Ecology - soil	No data available.		
cristobalite (14464-46-1)			
Ecology - soil	No data available.		
12.5. Other adverse effects			
No additional information available			
SECTION 13: Disposal consideration	ons		
13.1. Disposal methods			
Product/Packaging disposal recommendation			
SECTION 14: Transport information	n		
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 SECTION 15: Regulatory information	on		
15.1. US Federal regulations			
Sureflow 17A (Mixture)	and Patentine Anthening the United Option Fundamental Data of the Annual Table		
Substances Control Act (TSCA) inventory	and listed as Active on the United States Environmental Protection Agency Toxic		
aluminium oxide, non-fibrous (1344-28-1)			
aluminium oxide, non-fibrous (1344-28-1 Not subject to reporting requirements of the	,		

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

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Sureflow 17A (Mixture)			
Note	te 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. Internatio	nal regulations		
CANADA			
aluminium o	oxide, non-fibrous (1344-28-1)		
Listed on the Canadian DSL (Domestic Substances List)			
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)

#### **EU-Regulations**

No additional information available

### **National regulations**

No additional information available

#### 15.3. US State regulations

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			St	State or local regulations		
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 information**

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: 11/05/2021

Other information

Revision date

: Report language name. English. In the event of any conflict between English and other

language versions, the English version shall prevail.

#### Full text of H-phrases:

H315	Causes skin irritation	
H320	Causes eye irritation	
H350	May cause cancer	

SDS US (GHS HazCom 2012)

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