

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/08/2020 Revision date: 10/08/2020 Supersedes: 12/21/2016

1. Identification	
Product form	: Mixture
Product name	: ProGun LC FS-6
CAS-No.	: Mixture
Product code	: 0428
Other means of identification .2. Recommended use and restrictions	: Alumina-Silicate Cement Bonded Castable
.2. Recommended use and restrictions of 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	lucts.com
.4. Emergency telephone number	
Emergency number	: EMERGENCY ONLY (CHEMTREC) USA & Canada 1-800-424-9300
	Outside USA & Canada +1 703-741-5970
ECTION 2: Hazard(s) identification	
.1. Classification of the substance or mi	ixture
HS US classification	
Skin corrosion/irritation Category 2	H315 Causes skin irritation
Serious eye damage/eye irritation Category 2B	
Carcinogenicity Category 1A	H350 May cause cancer (Inhalation)
ull text of H statements : see section 16	
.2. GHS Label elements, including preca	autionary statements
HS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US)	: Danger
Hazard statements (GHS US)	: H315 - Causes skin irritation
	H320 - Causes eye irritation
	H350 - May cause cancer (Inhalation)
Precautionary statements (GHS US)	: 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.
	P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.
3. Other hazards which do not result in	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.
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o additional information available 4. Unknown acute toxicity (GHS US)	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.
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First-aid measures after skin contact First-aid measures after eye contact	<ul> <li>Wash with plenty of soap and water. Wash contaminated clothing before reuse.</li> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if preser and easy to do. Continue rinsing.</li> </ul>
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
2. Most important symptoms and effect	
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects after inhalation	: May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes eye irritation.
3. Immediate medical attention and spe	ecial treatment, if necessary
o additional information available ECTION 5: Fire-fighting measures	
.1. Suitable (and unsuitable) extinguish	ing media
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: In case of fire, all extinguishing media allowed.
.2. Specific hazards arising from the ch	: Not flammable.
Fire hazard .3. Special protective equipment and pr	
Firefighting instructions	: Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering
	environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release meas	
.1. Personal precautions, protective equ. .1.1. For non-emergency personnel	uipment and emergency procedures
Emergency procedures	: Do not breathe dust.
5.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
.2. Environmental precautions revent entry to sewers and public waters.	
.3. Methods and material for containme	ent and cleaning up
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Minimize generation of dust.
5.4. Reference to other sections	
See Heading 8. Exposure controls and personal SECTION 7: Handling and storage	protection.
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.
Lhuinna magauraa	Avoid contact with 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.
2.2. Conditions for safe storage, includir	ng any incompatibilities
Storage conditions	: Store this product in a dry location where it can be protected from the elements.
Incompatible products SECTION 8: Exposure controls/perso	: Strong bases. Strong acids.
.1. Control parameters	
ProGun LC FS-6 (Mixture)	
No additional information available	
Calcium Aluminate Cement (65997-16-2)	
No additional information available	
cristobalite (14464-46-1)	
USA - ACGIH - Occupational Exposure Lim	
ACGIH TWA (mg/m³)	0.025 mg/m <sup>3</sup> respirable dust
USA - OSHA - Occupational Exposure Limi	
OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> respirable dust
aluminium oxide, non-fibrous (1344-28-1)	
USA - ACGIH - Occupational Exposure Lim	
ACGIH TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> respirable dust
quartz (14808-60-7)	
USA - ACGIH - Occupational Exposure Lim	
ACGIH TWA (mg/m³)	0.025 mg/m <sup>3</sup> (Silica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)
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USA - OSHA - Occupational Exposure Limits		
Local name	Silica, crystalline quartz, respirable dust	
OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> respirable dust	
Remark (OSHA)	(3) See Table Z-3.	
.2. Appropriate engineering controls		
Appropriate engineering controls .3. Individual protection measures/Persor	: Provide adequate ventilation to minimize dust concentrations.	
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.		
ECTION 9: Physical and chemical pro	operties	
.1. Information on basic physical and che		
Physical state	: Solid	
Appearance Color	: Granular mixture. : pink	
Odor	: earthy	
Odor threshold	: Not applicable	
pH	: No data available	
Melting point	: > 2000 °F	
Freezing point	: Not applicable	
Boiling point	: Not applicable	
Critical temperature	: Not applicable	
Flash point	: Not applicable	
Relative evaporation rate (butyl acetate=1)	: Not applicable	
Relative evaporation rate (ether=1)	: Not applicable	
Flammability (solid, gas)	: Non flammable.	
Vapor pressure	: No data available	
Vapor pressure at 50 °C	: Not Applicable	
Relative vapor density at 20 °C	: No data available	
Relative density	: ≈ 1.9	
Solubility	: Slightly soluble.	
Partition coefficient n-octanol/water (Log Pow)	: No data available	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: Not applicable	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
0.2. Other information		
SECTION 10: Stability and reactivity		
0.1. Reactivity		
Hydraulic setting.		
0.2. Chemical stability Stable under normal conditions of use.		
0.3. Possibility of hazardous reactions		
lot established.		
0.4. Conditions to avoid		
void dust formation.		
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0.5. Incompatible materials	
trong acids. Strong bases. 0.6. Hazardous decomposition products	
o additional information available	
ECTION 11: Toxicological informatio	n
I.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)	
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	: Causes skin irritation.
Serious eye damage/irritation	: Causes eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer (Inhalation).
quartz (14808-60-7)	4. Consistentia to humana
IARC group	1 - Carcinogenic to humans
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure Specific target organ toxicity – repeated	: Not classified : Not classified
exposure	. 1901 0103311150
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met.
symptoms	
Symptoms/effects after inhalation	: May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact SECTION 12: Ecological information	: Causes eye irritation.
lo additional information available 2.2. Persistence and degradability ProGun LC FS-6 (Mixture)	
· · ·	Not optablished
Persistence and degradability	Not established.
cristobalite (14464-46-1)	
Persistence and degradability	Mineral. Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
aluminium oxide, non-fibrous (1344-28-1)	
Persistence and degradability	
	Not applicable.
Chemical oxygen demand (COD)	Not applicable
Chemical oxygen demand (COD) ThOD	
ThOD	Not applicable
ThOD quartz (14808-60-7)	Not applicable           Not applicable
ThOD quartz (14808-60-7) Persistence and degradability	Not applicable         Not applicable         Not applicable.
ThOD quartz (14808-60-7) Persistence and degradability Biochemical oxygen demand (BOD)	Not applicable         Not applicable         Not applicable.         Not applicable
ThOD quartz (14808-60-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD)	Not applicable         Not applicable         Not applicable.         Not applicable         Not applicable         Not applicable
ThOD quartz (14808-60-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD	Not applicable         Not applicable         Not applicable.         Not applicable
ThOD quartz (14808-60-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD 2.3. Bioaccumulative potential	Not applicable         Not applicable         Not applicable.         Not applicable         Not applicable         Not applicable
ThOD quartz (14808-60-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD	Not applicable         Not applicable         Not applicable.         Not applicable         Not applicable         Not applicable
ThOD         quartz (14808-60-7)         Persistence and degradability         Biochemical oxygen demand (BOD)         Chemical oxygen demand (COD)         ThOD         2.3.       Bioaccumulative potential	Not applicable         Not applicable         Not applicable.         Not applicable         Not applicable         Not applicable
ThOD         quartz (14808-60-7)         Persistence and degradability         Biochemical oxygen demand (BOD)         Chemical oxygen demand (COD)         ThOD         2.3.       Bioaccumulative potential         ProGun LC FS-6 (Mixture)	Not applicable
ThOD         quartz (14808-60-7)         Persistence and degradability         Biochemical oxygen demand (BOD)         Chemical oxygen demand (COD)         ThOD         2.3.       Bioaccumulative potential         ProGun LC FS-6 (Mixture)         Bioaccumulative potential	Not applicable
ThOD         quartz (14808-60-7)         Persistence and degradability         Biochemical oxygen demand (BOD)         Chemical oxygen demand (COD)         ThOD         2.3.       Bioaccumulative potential         ProGun LC FS-6 (Mixture)         Bioaccumulative potential         cristobalite (14464-46-1)         Bioaccumulative potential	Not applicable
ThOD         quartz (14808-60-7)         Persistence and degradability         Biochemical oxygen demand (BOD)         Chemical oxygen demand (COD)         ThOD         2.3.       Bioaccumulative potential         ProGun LC FS-6 (Mixture)         Bioaccumulative potential         cristobalite (14464-46-1)	Not applicable
ThOD         quartz (14808-60-7)         Persistence and degradability         Biochemical oxygen demand (BOD)         Chemical oxygen demand (COD)         ThOD         2.3.       Bioaccumulative potential         ProGun LC FS-6 (Mixture)         Bioaccumulative potential         cristobalite (14464-46-1)         Bioaccumulative potential         aluminium oxide, non-fibrous (1344-28-1)	Not applicable         Not applicable         Not applicable.         Not applicable         Not applicable

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quartz (14808-	60-7)					
Bioaccumulativ	-	N	lo data availab			
12.4. Mobility	•					
cristobalite (14	1464-46-1)		la data availak	-1-		
Ecology - soil			lo data availab	ne.		
	de, non-fibrous (1344					
Ecology - soil		N	lo data availab	ole.		
	dverse effects	N	lone known			
Effect on the glob	Disposal conside					
	I methods	rations				
Product/Packagi	ng disposal recommend	dations : D	)ispose in a sa	afe manner in accorda	ance with local/national regulat	ions.
Ecology - waste	materials	: A		o the environment.		
	Transport inform	ation				
Department of T In accordance wi	ransportation (DOT)					
Not regulated						
	of Dangerous Goods					
Not regulated	-					
Transport by se	а					
Not regulated						
Air transport						
Not regulated						
SECTION 15:	Regulatory inform	nation				
15.1. US Federal						
ProGun LC FS		<u> </u>				
	of this product are listen ntrol Act (TSCA) invent		d from listing,	on the United States	Environmental Protection Age	ncy loxic
	de, non-fibrous (1344	,				
	eporting requirements		States SARA S	Section 313		
Note	Note: The section 313	chemical list	contains "CAS	5 # 1344-28-1 Alumin	um Oxide (Fibrous forms)"; the	e Aluminum oxide
					naterial. Only manufacturing, p	rocessing, or otherwise
	use of aluminum oxide	In the fibrous	s form triggers	reporting.		
15 7 Internations	I regulations					
	riegulations					
CANADA		16-2)				
CANADA Calcium Alum	inate Cement (65997-		List)			
CANADA Calcium Alum Listed on the C	inate Cement (65997- anadian DSL (Domesti		List)			
CANADA Calcium Alum Listed on the C cristobalite (14	inate Cement (65997- anadian DSL (Domesti 1464-46-1)	c Substances	,			
CANADA Calcium Alum Listed on the C cristobalite (14 Listed on the C	inate Cement (65997- anadian DSL (Domesti 1464-46-1) anadian DSL (Domesti	c Substances c Substances	,			
CANADA Calcium Alum Listed on the C cristobalite (14 Listed on the C aluminium oxi	inate Cement (65997- anadian DSL (Domesti 1464-46-1) anadian DSL (Domesti de, non-fibrous (1344	c Substances c Substances -28-1)	List)			
CANADA Calcium Alum Listed on the C cristobalite (14 Listed on the C aluminium oxi Listed on the C	inate Cement (65997- anadian DSL (Domesti 1464-46-1) anadian DSL (Domesti	c Substances c Substances -28-1)	List)			
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CANADA Calcium Alum Listed on the C cristobalite (14 Listed on the C aluminium oxi Listed on the C EU-Regulations No additional infor	inate Cement (65997- anadian DSL (Domesti 1464-46-1) anadian DSL (Domesti de, non-fibrous (1344 anadian DSL (Domesti mation available	c Substances c Substances -28-1)	List)			
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#### Safety Data Sheet

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

U.S California - Proposition 65 - Carcinogens List       U.S California - Proposition 65 - Developmental Toxicity       U.S California - Proposition 65 - Reproductive Toxicity - Female       No significant risk level (NSRL)       Maximum allowable dose level (MADL)         Yes       No       No       No       Volume       Volume	quartz (14808-6	0-7)				
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           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           Quartz (14808-60-7)         U.S New Jersey - Right to Know Hazardous Substance List	California - Proposition 65 - Carcinogens	Proposition 65 - Developmental	Proposition 65 - Reproductive	Proposition 65 - Reproductive Toxicity	5	
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) Listaluminium 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) ListQuartz (14808-60-7)U.S New Jersey - Right to Know Hazardous Substance List	Yes	No	No	No		
Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) 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           Quartz (14808-60-7)         U.S New Jersey - Right to Know Hazardous Substance List	Component			State or local regulations	6	
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	Cristobalite (144	64-46-1)				
, , , , , , , , , , , , , , , , , , , ,	aluminium oxide, non-fibrous (1344-28-1)					
SECTION 16: Other information	Quartz (14808-6	0-7)		U.S New Jersey - Right	to Know Hazardous Substance	List
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations						

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date : 10/08/2020

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 H-phrases:

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

SDS US (GHS HazCom 2012) 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.