

### 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: 5/29/2024 Supersedes: 4/13/2021

SECTION 1: Identification					
1.1. Identification					
	Mixture ProGun LC 60G Mixture 0439 Alumina-Silicate 6	Cement Bonde	ed Castable		
1.2. Recommended use and restrictions on u		Comon Donac			
	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 <u>SDS@RescoProducts.com</u> - <u>WWW.RescoProducts.co</u> <b>1.4. Emergency telephone number</b>	<u>əm</u>				
	EMERGENCY O Outside USA & C			Canada 1-800-4	424-9300
SECTION 2: Hazard(s) identification					
2.1. Classification of the substance or mixtu	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	H	1315 1320 1350	Causes skir Causes eye May cause o		n)
2.2. GHS Label elements, including precauti	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 er H350 - May caus P280 - Wear eye P305+P351+P33 contact lenses, if P332+P313 - If sl P337+P313 - If er P260 - Do not bre	ye irritation e cancer (Inha protection, Du 8 - IF IN EYES present and e kin irritation oc ye irritation pe	ist respirator, S: Rinse caut asy to do. Co curs: Get me	iously with wate ontinue rinsing. edical advice/atte	r for several minutes. Remove ention.
2.3. Other hazards which do not result in cla	ssification				
No additional information available					
2.4. Unknown acute toxicity (GHS US)					
No additional information available	ingradiente				
SECTION 3: Composition/Information of	ringredients				
3.1. Substances					
Not applicable 3.2. Mixtures					
Name		Product	idontifior	0/	GHS US classification
Calcium Aluminate Cement		CAS-No.:		<mark>%</mark> 5 – 10	GHS US classification Skin Irrit. 2, H315
					Eye Irrit. 2B, H320
aluminium oxide, non-fibrous		CAS-No.:		1 – 5	Not classified
quartz			14808-60-7	1-5	Carc. 1A, H350
cristobalite		CAS-No.:	14464-46-1	0.1 – 0.5	Carc. 1A, H350
cristobalite		CAS-No.:	14464-46-1	0.1 – 0.5	Carc. 1A, H350

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Full text of hazard classes and H-statements : see se	ction 16
SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation	<ul> <li>Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (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 First-aid measures after eye contact	<ul> <li>Gently wash with plenty of soap and water.</li> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> </ul>
First-aid measures after ingestion	<ul> <li>Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.</li> </ul>
4.2. Most important symptoms and effects (a	
	: Danger of serious damage to health by prolonged exposure through inhalation. May cause
symptoms	cancer by inhalation.
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 4.3. Immediate medical attention and specia	: Causes eye irritation.
A.S. Infinediate medical attention and special No additional information available	r troutment, il nevessary
SECTION 5: Fire-fighting measures 5.1. Suitable (and unsuitable) extinguishing	modia
Unsuitable extinguishing media	<ul> <li>Use extinguishing media appropriate for surrounding fire.</li> <li>In case of fire, all extinguishing media allowed.</li> </ul>
5.2. Specific hazards arising from the chemi	
Fire hazard	: Not flammable.
5.3. Special protective equipment and preca	-
	: Fight fire with normal precautions from a reasonable distance. Prevent fire-fighting water from entering environment.
	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measure	
6.1. Personal precautions, protective equipment	nent and emergency procedures
6.1.1. For non-emergency personnel	. Do not broothe dust Avoid contect with align and even
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	
	: 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	
Precautions for safe handling	: 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.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, including a	
	<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>
SECTION 8: Exposure controls/persona	I protection
8.1. Control parameters	
ProGun LC 60G (Mixture) No additional information available	

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Calcium Aluminate Cement (65997-16-2)	
No additional information available	
cristobalite (14464-46-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.025 mg/m <sup>3</sup> respirable dust
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [1]	0.05 mg/m <sup>3</sup> respirable dust
aluminium oxide, non-fibrous (1344-28-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1 mg/m <sup>3</sup> respirable dust
quartz (14808-60-7)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.025 mg/m <sup>3</sup> (Silica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TLV -
	Adopted Value; Respirable fraction)
USA - OSHA - Occupational Exposure Limits	
Local name	Silica, crystalline quartz, respirable dust
OSHA PEL (TWA) [1]	0.05 mg/m <sup>3</sup> respirable dust
Remark (OSHA)	(3) See Table Z-3.
8.2. Appropriate engineering controls	
	Provide adequate ventilation to minimize dust concentrations.
8.3. Individual protection measures/Personal	
	protective equipment
Personal protective equipment:	
Avoid all unnecessary exposure.	
Hand protection:	
Weer protective gleves	
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.	
<b>SECTION 9: Physical and chemical prope</b>	erties
9.1. Information on basic physical and chemic	cal properties
	Solid
	Granular mixture.
Color :	Gray
Odor :	earthy
Odor threshold :	No data available
pH :	≈ 10.5
pH solution concentration :	10 %
	> 2500 °F
	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 : Relative vapor density at 20°C :	No data available No data available
Relative density at 20 C	≈ 2.4
Solubility :	~ 2.4 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

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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 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
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
aluminium oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)
quartz (14808-60-7)	
pH	6 – 7
Serious eye damage/irritation	Causes eye irritation.
concus cyc damage/imtation	pH: ≈ 10.5
Calcium Aluminate Cement (65997-16-2)	
рН	≤ 13
cristobalite (14464-46-1)	
рН	6 - 7
aluminium oxide, non-fibrous (1344-28-1)	
РН	9 – 10.5 (aqueous suspension, 33 %)
quartz (14808-60-7)	
рН	6 – 7

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g,	: Not classified : May cause cancer (Inhalation).
quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard Viscosity, kinematic	: Not classified : Not Applicable
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. May cause
symptoms Symptoms/effects after inhalation	cancer by inhalation. : May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure
	through inhalation.
Symptoms/effects after skin contact Symptoms/effects after eye contact	Causes skin irritation.     Causes eye irritation.
SECTION 12: Ecological information	
12.1. Toxicity	
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	
ProGun LC 60G (Mixture)	
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
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	
ProGun LC 60G (Mixture)	
Bioaccumulative potential	Not established.
cristobalite (14464-46-1)	
Bioaccumulative potential	No data available.

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<u> </u>		
aluminium oxide, non-fibro	us (1344-28-1)	
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.
aluminium oxide, non-fibro	us (1344-28-1)	
Surface tension		No data available in the literature
Ecology - soil		No data available.
12.5. Other adverse effects		
Effect on the global warming	:	None known
SECTION 13: Disposal co	onsiderations	
13.1. Disposal methods		
Product/Packaging disposal recor Ecology - waste materials		Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.
SECTION 14: Transport in	nformation	
Department of Transportation In accordance with DOT Not regulated Transportation of Dangerous ( Not regulated Transport by sea Not regulated Air transport Not regulated	<b>、</b> ,	
SECTION 15: Regulatory	information	
15.1. US Federal regulations	\$	
All components of this product ar (TSCA) inventory	e present and listed as	s Active on the United States Environmental Protection Agency Toxic Substances Control Act
aluminium oxide, non-fibro	us (1344-28-1)	
Not subject to reporting requirements of the United States SARA Section 313		
Note	oxide contained in thi	3 chemical list contains "CAS # 1344-28-1 Aluminum Oxide (Fibrous forms)"; the Aluminum is product is non-fibrous, and thus is not a section 313 material. Only manufacturing, processing, luminum oxide in the fibrous form triggers reporting.
15.2. International regulations		
CANADA		
Calcium Aluminate Cement (65997-16-2)		
Listed on the Canadian DSL (Domestic Substances List)		
cristobalite (14464-46-1)		
Listed on the Canadian DSL (Do	mestic Substances Lis	t)

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

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

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National regulations	
quartz (14808-60-7)	
Listed on IARC (International Agency for Research on	Cancer)
15.3. US State regulations	
ProGun LC 60G (Mixture)	
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

cristobalite (14464-46-	1)				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk	Maximum allowable
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	level (NSRL)	dose level (MADL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity	Reproductive Toxicity		
		- Female	- Male		
Yes	No	No	No		

quartz (14808-60-7)					
U.S California - Proposition 65 -	No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
Carcinogens List	Developmental Toxicity	Reproductive Toxicity			
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	
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	
SECTION 16: Other information		
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Revision date Other information 5/29/2024
Report language name. English. In the event of any conflict between English and other language versions, the English version shall prevail.

Full text of H-ph	Full text of H-phrases			
H315	Causes skin irritation			
H320	Causes eye irritation			
H350	May cause cancer			

Safety Data Sheet (SDS), USA

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