Safety Data Sheet



Section 1: Identification

Product identifier

Product Name Reno NC 70 AL

Product Code • 183100

Relevant identified uses of the substance or mixture and uses advised against

Recommended use • Refractory applications

Details of the supplier of the safety data sheet

Manufacturer • Reno Refractories, Inc.

P O Box 201 Morris, AL 35116 United States

www.renorefractories.com sales@renorefractories.com

Telephone (General) • 205-647-0240

Emergency telephone number

Manufacturer • 1-800-262-8200 - CHEMTREC

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 • Carcinogenicity 1A

Specific Target Organ Toxicity Repeated Exposure 1

Label elements
OSHA HCS 2012

DANGER



Hazard statements • May cause cancer.

Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention • Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves, clothing, and eye/face protection, .

Response • IF exposed or concerned: Get medical advice/attention.

Storage/Disposal • Dispose of content and/or container in accordance with local, regional, national, and/or

international regulations.

Other hazards

• Under United States Regulations (29 CFR 1910.1200 - Hazard Communication

Standard), this product is considered hazardous.

Canada

According to: WHMIS

Classification of the substance or mixture

WHMIS • Other Toxic Effects - D2A

Other Toxic Effects - D2B

Label elements

WHMIS .

(T)

• Other Toxic Effects - D2A

Other Toxic Effects - D2B

Other hazards

• In Canada, the product mentioned above is considered hazardous under the

Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

Substances

Material does not meet the criteria of a substance.

Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Alumina Silicate	Proprietary	51.69% TO 54.1%	NDA	OSHA HCS 2012: STOT RE 2 (Lungs)	NDA
Aluminum oxide	CAS :1344-28	22.025% TO 29.005%	Inhalation-Rat LC50 • 0.2 mg/L 5 Hour(s) 28 Week(s)	OSHA HCS 2012: Not Classified	NDA
Silica, amorphous	CAS :7631-86	0.009% TO 16.012%	NDA	OSHA HCS 2012: Not Classified	NDA
Non Wetting Agent	Proprietary	1.88% TO 3.9%	Ingestion/Oral-Rat LD50 • 4250 mg/kg	OSHA HCS 2012: Not Classified	NDA
Amorphous silica fume	CAS :69012-64-2	2% TO 3%	NDA	OSHA HCS 2012: STOT RE 1 (Lungs)	NDA
Amorphous/fused silica	CAS :60676-86-0	0% TO 0.88%	NDA	OSHA HCS 2012: Not Classified	NDA
	1		1	1	

Iron oxide	CAS :1309-37	0% TO 0.44%	NDA	OSHA HCS 2012: Not Classified	NDA
Quartz	CAS :14808-60-7	0.281% TO 0.311%	NDA	OSHA HCS 2012: Exposure limits	NDA
Cristobalite	CAS :14464-46-1	0.198% TO 0.207%	NDA	OSHA HCS 2012: Carc. 1A	NDA
Sodium hydroxide	CAS :1310-73	0.0625% TO 0.1775%	NDA	OSHA HCS 2012: Skin. Corr. 1B; Eye Corr. 1	NDA
Setting Agent A	Proprietary	0% TO 0.159%	NDA	OSHA HCS 2012: Not Classified	NDA
Calcium oxide	CAS :1305-78	0.02% TO 0.135%	NDA	OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2; STOT SE 3: Resp. Irrit.	NDA
Limestone	CAS :1317-65	0.02% TO 0.116%	NDA	OSHA HCS 2012: Exposure limits	NDA
Zirconium oxide	CAS :1314-23	0.081% TO 0.085%	NDA	OSHA HCS 2012: WHMIS:	NDA
Titanium dioxide	CAS :13463-67-7	0.0225% TO 0.0275%	NDA	OSHA HCS 2012: WHMIS: Other Toxic Effects - D2A	NDA
Potassium oxide	CAS :12136-45-7	0.011% TO 0.014%	NDA	OSHA HCS 2012: WHMIS:	NDA

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

 Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention immediately.

Skin

• In case of contact with substance, immediately flush skin with running water for at least 20 minutes. If skin irritation occurs: Get medical advice/attention.

Eye

• In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth. Do not give anything by mouth to an unconscious person. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed

• Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

 All treatments should be based on observed signs and symptoms of distress in thepatient. Consideration should be given to the possibility that overexposure to materialsother than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media • Material is non-combustible. In case of fire use media as appropriate for surrounding

fire.

Unsuitable Extinguishing Media

None known.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion

Hazardous Combustion

· None known.

Hazards

None known.

Products

Advice for firefighters

Wear positive pressure self-contained breathing apparatus (SCBA).
 Structural firefighters' protective clothing will only provide limited protection.
 Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

• Isolate hazard area and deny entry to unauthorized and/or unprotected personnel. Do not walk through spilled material. Ensure adequate ventilation to remove vapors, fumes, dust etc. Wear appropriate personal protective equipment, avoid direct contact.

Emergency Procedures

 Ventilate closed spaces before entering. Isolate hazard area and deny entry to unauthorized and/or unprotected personnel.

Environmental precautions

No specific actions or treatments recommended related to exposure to this material.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

Avoid generating dust.
 FOR SMALL SPILLS: Clean with a vacuum with a filtration system sufficient to remove
and prevent recirculation of crystalline silica (a vacuum equipped with a high-efficiency
particulate air (HEPA) filter is recommended).
 FOR LARGE SPILLS: Use a fine spray or mist to control dust creation and carefully
scoop or shovel into clean dry container for later reuse or disposal.

If, an appropriate vacuum is unavailabe, only wet-clean-up methods should be used (i.e. misting). Moisture should be added as necessary to reduce exposure to airborne respirable silica dust.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

Use good safety and industrial hygiene practices. Use only in well ventilated areas. Wear appropriate personal protective equipment, avoid direct contact. Wear long sleeves and/or protective coveralls. Do not breathe dust. Avoid contact with skin, eyes, and clothing. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Contaminated clothing must be vacuumed before removal. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage

• Store in a covered location. Keep container closed. Keep from freezing. Storage and work area should be periodically cleaned to minimize dust accumulation.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	Canada Ontario	Canada Quebec	Mexico	NIOSH
	STELs	Not established	Not established	Not established	10 mg/m3 STEL [LMPE-CT] (as Fe)	Not established
Iron oxide				5 mg/m3 TWAEV (dust and fume, as Fe); 10 mg/m3		

(1309-37-1)	TWAs	5 mg/m3 TWA (respirable fraction)	5 mg/m3 TWA (respirable)	TWAEV (containing no Asbestos and <1% Crystalline silica, regulated under Rouge, total dust)	5 mg/m3 TWA LMPE- PPT	5 mg/m3 TWA (dust and fume, as Fe)
Setting Agent A (Proprietary)	TWAs	10 mg/m3 TWA (inhalable fraction)	10 mg/m3 TWA (inhalable)	10 mg/m3 TWAEV (fume, as Mg)	10 mg/m3 TWA LMPE -PPT (fume, as Mg)	Not established
Amorphous/fused silica (60676-86-0)	TWAs	Not established	0.1 mg/m3 TWA (respirable)	0.1 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, respirable dust)	0.1 mg/m3 TWA LMPE-PPT; 10 mg/m3 TWA LMPE-PPT (inhalable particulate); 3 mg/m3 TWA LMPE-PPT (respirable particulate)	Not established
Silica, amorphous (7631-86-9)	TWAs	Not established	Not established	Not established	Not established	6 mg/m3 TWA
	STELs	Not established	Not established	Not established	20 mg/m3 STEL [LMPE-CT]	Not established
Limestone (1317-65-3)	TWAs	Not established	Not established	10 mg/m3 TWAEV (Limestone, containing no Asbestos and <1% Crystalline silica, total dust)	10 mg/m3 TWA LMPE -PPT	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
Calcium oxide (1305-78-8)	TWAs	2 mg/m3 TWA	2 mg/m3 TWA	2 mg/m3 TWAEV	2 mg/m3 TWA LMPE- PPT	2 mg/m3 TWA
Sodium hydroxide (1310-73-2)	Ceilings	2 mg/m3 Ceiling	2 mg/m3 Ceiling	2 mg/m3 Ceiling	2 mg/m3 Ceiling	2 mg/m3 Ceiling
Cristobalite (14464-46-1)	TWAs	0.025 mg/m3 TWA (respirable fraction)	0.05 mg/m3 TWA (designated substances regulation, respirable, listed under Silica, crystalline)	0.05 mg/m3 TWAEV (respirable dust)	0.05 mg/m3 TWA LMPE-PPT (respirable fraction)	0.05 mg/m3 TWA (respirable dust)
Quartz (14808-60-7)	TWAs	0.025 mg/m3 TWA (respirable fraction)	0.10 mg/m3 TWA (designated substances regulation, respirable, listed under Silica, crystalline)	0.1 mg/m3 TWAEV (respirable dust)	0.1 mg/m3 TWA LMPE-PPT (respirable fraction)	0.05 mg/m3 TWA (respirable dust)
Amorphous silica fume (69012-64-2)	TWAs	Not established	2 mg/m3 TWA (respirable, listed under Silica fume)	2 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, respirable dust)	2 mg/m3 TWA LMPE- PPT; 10 mg/m3 TWA LMPE-PPT (inhalable particulate); 3 mg/m3 TWA LMPE-PPT (respirable particulate)	Not established
Aluminum oxide (1344-28-1)	TWAs	Not established	Not established	10 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, total dust, as AI)	10 mg/m3 TWA LMPE -PPT	Not established

Exposure Limits/Guidelines (Con't.)				
	Result	OSHA		
Iron oxide (1309-37-1)	TWAs	10 mg/m3 TWA (fume); 15 mg/m3 TWA (total dust, listed under Rouge); 5 mg/m3 TWA (respirable fraction, listed under Rouge)		
Setting Agent A (Proprietary)	TWAs	15 mg/m3 TWA (fume, total particulate)		
Limestone (1317-65-3)	TWAs	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)		
Calcium oxide (1305-78-8)	TWAs	5 mg/m3 TWA		
Sodium hydroxide (1310-73-2)	TWAs	2 mg/m3 TWA		
Aluminum oxide (1344-28-1)	TWAs	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)		

Exposure Limits Supplemental OSHA

- •Cristobalite (14464-46-1): Mineral Dusts: ((1/2)(30)/(%SiO2 + 2) mg/m3 TWA, total dust; (1/2)(250)/(%SiO2 + 5) mppcf TWA, respirable fraction; (1/2)(10)/(%SiO2 + 2) mg/m3 TWA, respirable fraction)
- •Quartz (14808-60-7): Mineral Dusts: ((30)/(%SiO2 + 2) mg/m3 TWA, total dust; (250)/(%SiO2 + 5) mppcf TWA, respirable fraction; (10)/(%SiO2
- + 2) mg/m3 TWA, respirable fraction)
- Amorphous/fused silica (60676-86-0): Mineral Dusts: ((80)/(% SiO2) mg/m3 TWA: 20 mppcf TWA)
- Silica, amorphous (7631-86-9): Mineral Dusts: (20 mppcf TWA; (80)/(% SiO2) mg/m3 TWA)

Exposure controls

Engineering Measures/Controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is not leakage from the equipment). Collection systems must be designed and maintained to prevent the accumulation and recirculation of respirable silica into the workplace.

Personal Protective Equipment

Respiratory

 For limited exposure use an N95 dust mask. For prolonged exposure use an airpurifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eve/Face

Wear protective eyewear (goggles, face shield, or safety glasses).

Hands

Wear appropriate gloves.

Skin/Body

Wear long sleeves and/or protective coveralls.

General Industrial Hygiene Considerations

 Do not breathe dust. Avoid contact with skin, eyes or clothing. Do not remove dusts from clothing by blowing or shaking. Do not eat, drink or smoke during work. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls

Follow best practice for site management and disposal of waste. Dispose of in an approved landfill.

Key to abbreviations

American Conference of Governmental Industrial Hygiene

STEL = Short Term Exposure Limits are based on 15-minute exposures

NIOSH = National Institute of Occupational Safety and Health

TWAEV = Time-Weighted Average Exposure Value

Preparation Date: 01/June/2009 Format: GHS Language: English (US) OSHA HCS 2012, WHMIS Revision Date: 01/May/2018

OSHA = Occupational Safety and Health Administration

TWA

= Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Gray granular dry powder with an earthy odor.
Color	Gray	Odor	Earthy
Particulate Size	600 µ	Odor Threshold	No data available
General Properties		-	-
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	рН	No data available
Specific Gravity/Relative Density	= 2.53 Water=1	Water Solubility	Negligible < 0.1 %
Viscosity	No data available		
Volatility		•	•
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Wt.)	0 %
VOC (Vol.)	0 %		
Flammability		-	•
Flash Point	No data available	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

· No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under normal temperatures and pressures.

Possibility of hazardous reactions

· Hazardous polymerization will not occur.

Conditions to avoid

No data available

Incompatible materials

No data available

Hazardous decomposition products

No data available

Section 11 - Toxicological Information

Information on toxicological effects

	Components				
Setting Agent A (0% TO 0.159%)	Proprietary	Multi-dose Toxicity: Inhalation-Rat TCLo • 1000 mg/m³ 4 Hour(s) 50 Day(s)-Intermittent; <i>Lungs, Thorax, or Respiration</i> : Other changes ; <i>Blood</i> : Other hemolysis with or without anemia			
Limestone (0.02% TO 0.116%)		Multi-dose Toxicity: Inhalation-Rat TCLo • 84 mg/m³ 4 Hour(s) 40 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration</i> : Fibrosis (interstitial) ; <i>Liver</i> : Other changes ; <i>Kidney, Ureter, and Bladder</i> : Other changes			
Silica, amorphous (0.009% TO 16.012%)	7631-86-9	Irritation: Eye-Rabbit • 25 mg 24 Hour(s) • Mild irritation			
Non Wetting Agent (1.88% TO 3.9%)	Proprietory	Acute Toxicity: Ingestion/Oral-Rat LD50 • 4250 mg/kg; Behavioral:Somnolence (general depressed activity); Behavioral:Ataxia; Lungs, Thorax, or Respiration:Respiratory depression; Reproductive: Intraperitoneal-Mouse TDLo • 3200 mg/kg (9D preg); Reproductive Effects:Effects on Fertility:Post-implantation mortality			

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • No data available
Skin corrosion/Irritation	OSHA HCS 2012 • No data available
Serious eye damage/Irritation	OSHA HCS 2012 • No data available
Skin sensitization	OSHA HCS 2012 • No data available
Respiratory sensitization	OSHA HCS 2012 • No data available
Aspiration Hazard	OSHA HCS 2012 • No data available
Carcinogenicity	OSHA HCS 2012 • Carcinogenicity 1A
Germ Cell Mutagenicity	OSHA HCS 2012 • No data available
Toxicity for Reproduction	OSHA HCS 2012 • No data available
STOT-SE	OSHA HCS 2012 • No data available
STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1

Target Organs

• |[206]|

Route(s) of entry/exposure

Medical Conditions Aggravated by Exposure Potential Health Effects Inhalation

Inhalation, Skin, Eye, Ingestion

Any pre-existing conditions of the lungs. Disorders of the lungs.

Acute (Immediate)

Chronic (Delayed)

Nuisance dust may affect the lungs but reactions are typically reversible.

Chronic overexposure to dust containing respirable sized crystalline silica can cause delayed lung injury (silicosis). Inhalation of dust containing crystalline silica pulmonary diseases such as asthma and lung disorder associated with smoking.

Skin

Acute (Immediate)

Exposure to dust may cause mechanical irritation.

Chronic (Delayed)

No data available.

Eye

Acute (Immediate)

· Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.

Chronic (Delayed)

No data available.

Ingestion

Acute (Immediate)

Chronic (Delayed)

Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.

No data available.

Carcinogenic Effects

• May cause cancer. IARC studies have shown sufficient evidence from animal studies to categorize crystalline silica as a group 1 carcinogen.

Carcinogenic Effects				
CAS IARC NTP				
Cristobalite	14464-46-1	Group 1-Carcinogenic	Not Listed	
Quartz	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen	

Key to abbreviations

LD = Lethal Dose

TC = Toxic Concentration

TD = Toxic Dose

Section 12 - Ecological Information

Toxicity

· Material data lacking.

Persistence and degradability

Material data lacking.

Bioaccumulative potential

Material data lacking.

Mobility in Soil

· Material data lacking.

Other adverse effects

No studies have been found.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

Special precautions for user

· None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture SARA Hazard Classifications • Chronic

State Right To Know					
Component	CAS	MA	NJ	PA	
Aluminum oxide	1344-28-1	Yes	Yes	Yes	
Calcium oxide	1305-78-8	Yes	Yes	Yes	
Cristobalite	14464-46-1	Yes	Yes	Yes	
Limestone	1317-65-3	Yes	Yes	Yes	
Quartz	14808-60-7	Yes	Yes	Yes	
Silica, amorphous	7631-86-9	Yes	Yes	Yes	
Sodium hydroxide	1310-73-2	Yes	Yes	Yes	

	Inventory					
Component	CAS	Canada DSL	Canada NDSL	TSCA		
Aluminum oxide	1344-28-1	Yes	No	Yes		
Calcium oxide	1305-78-8	Yes	No	Yes		
Cristobalite	14464-46-1	Yes	No	Yes		
Limestone	1317-65-3	No	Yes	Yes		
Quartz	14808-60-7	Yes	No	Yes		
Silica, amorphous	7631-86-9	Yes	No	Yes		
Sodium hydroxide	1310-73-2	Yes	No	Yes		

Canada

Calcium oxide	1305-78-8	E
• Sodium hydroxide	1310-73-2	E (including 0.04% in aqueous solution, 0.08%, 0.4% in aqueous solution, 2%, 2.5%, 4% in aqueous solution, 5%, 10%, 16%, 20%, 40%, 50% in aqueous solution, 8.7N)
Aluminum oxide	1344-28-1	Uncontrolled product according to WHMIS classification criteria
Limestone	1317-65-3	D2A
• Cristobalite	14464-46-1	D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Silica, crystalline, encapsulated on Health Canada's WHMIS Division
• Silica, amorphous	7631-86-9	website.) Uncontrolled product according to WHMIS classification criteria D2A (In certain cases, this

• Quartz	14808-60-7	classification does not apply. For more information, consult the section Substance Specific Issues - Silica, crystalline, encapsulated on Health Canada's WHMIS Division website.)
Canada - WHMIS - Ingredient Disclosure List		
Calcium oxide	1305-78-8	1 %
Sodium hydroxide	1310-73-2	1 %
Aluminum oxide	1344-28-1	1 %
• Limestone	1317-65-3	Not Listed
Cristobalite	14464-46-1	1 %
Silica, amorphous	7631-86-9	1 %
• Quartz	14808-60-7	1 %

United States

invironment J.S CERCLA/SARA - Hazardous Substances and thei	r Reportable Quantities	
Calcium oxide	1305-78-8	Not Listed
Sodium hydroxide	1310-73-2	1000 lb final RQ; 454 kg fina RQ
Aluminum oxide	1344-28-1	Not Listed
Limestone	1317-65-3	Not Listed
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
• Quartz	14808-60-7	Not Listed
J.S CERCLA/SARA - Section 313 - Emission Reporting	9	
Calcium oxide	1305-78-8	Not Listed
Sodium hydroxide	1310-73-2	Not Listed
Aluminum oxide	1344-28-1	1.0 % de minimis concentration (fibrous forms
Limestone	1317-65-3	Not Listed
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
Quartz	14808-60-7	Not Listed

United States - California

Environment U.S California - Proposition 65 - Carcinogens List		
Calcium oxide	1305-78-8	Not Listed
Sodium hydroxide	1310-73-2	Not Listed
Aluminum oxide	1344-28-1	Not Listed
Limestone	1317-65-3	Not Listed
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
		carcinogen, initial date 10/1/88
• Quartz	14808-60-7	(airborne particles of respirable size)

United States - Pennsylvania

Labor

Labor		
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List		
Calcium oxide	1305-78-8	Not Listed
Sodium hydroxide	1310-73-2	
Aluminum oxide	1344-28-1	
Limestone	1317-65-3	Not Listed
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
• Quartz	14808-60-7	Not Listed

Other Information

 WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information

Revision Date

Last Revision Date

Preparation Date

Disclaimer/Statement of Liability

- 01/May/2018
- 24/September/2015
- 01/June/2009
- The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release. Reno Refractories MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, WITH RESPECT TO SUCH INFORMATION, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of use or application. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key to abbreviations NDA = No data available