

Safety Data Sheet



Section 1: Identification

Product identifier

Product Name • Reno Jet Cast NC 90 SIC
Product Code • 188500

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 • Skin Sensitization 1
Germ Cell Mutagenicity 1A
Carcinogenicity 1A
Reproductive Toxicity 1A
Specific Target Organ Toxicity Repeated Exposure 1

Label elements

OSHA HCS 2012

DANGER



Hazard statements • May cause an allergic skin reaction
May cause genetic defects.
May cause cancer.
May damage fertility or the unborn child.

Causes damage to organs - Lungs 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.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.

- Response** • If on skin: Wash with plenty of water.
Wash contaminated clothing before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment, see supplemental first aid information.
IF exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.

- Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards

- OSHA HCS 2012** • 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** • 

- WHMIS** • Other Toxic Effects - D2A
Other Toxic Effects - D2B

Other hazards

- WHMIS** • 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
Silicon carbide	CAS:409-21-2	77.85% TO 87.3%	NDA	OSHA HCS 2012: STOT RE 2
Aluminum oxide	CAS:1344-28-1	5.91% TO 9%	NDA	OSHA HCS 2012: Not Classified
Metal	Proprietary	0.997% TO 3%	NDA	OSHA HCS 2012: STOT RE 2 (Lungs, Inhl)

Carbon	<i>Proprietary</i>	1.99% TO 3%	NDA	OSHA HCS 2012: Skin Sens. 1; Repr. 1A; Carc. 1A; Muta. 1A
Amorphous silica fume	CAS:69012-64-2	1.2% TO 3%	NDA	OSHA HCS 2012: STOT RE 1 (Lungs)
Chemical 1	<i>Proprietary</i>	0.0196% TO 0.049%	NDA	OSHA HCS 2012: Exposure limit(s)
Quartz	CAS:14808-60-7	0% TO 0.005%	NDA	OSHA HCS 2012: Exposure limit(s)
Benzo(a)pyrene	CAS:50-32-8	0% TO 0.003%	NDA	OSHA HCS 2012: Exposure limit(s)

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.
- Skin**
- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention.
- Eye**
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes.
- Ingestion**
- Rinse mouth. Do not give anything by mouth to an unconscious person.

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 the patient. Consideration should be given to the possibility that overexposure to material other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

- Suitable Extinguishing Media**
- This product does not burn or support combustion. Use extinguishing agent suitable for type of surrounding fire.
- Unsuitable Extinguishing Media**
- None known.

Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- None known.
- Hazardous Combustion Products**
- None known.

Advice for firefighters

- 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. Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not walk through spilled material. Ventilate enclosed areas.

Emergency Procedures

- As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions. Keep unauthorized personnel away. Stay upwind.

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. Wet down material before clean-up. Use vacuums with high-efficiency particulate air (HEPA) filters or wet-sweeping for clean-up. Never dry sweep or blow dust with compressed air.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Do not use in areas without adequate ventilation. Do not breathe dust. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage

- Store in a covered location. 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
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)
Benzo(a)pyrene (50-32-8)	TWAs	Not established	exposure by all routes should be carefully controlled to levels as low as possible	0.005 mg/m3 TWAEV	Not established	Not established
Chemical 1 (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
Metal (Proprietary)	TWAs	1 mg/m3 TWA (respirable fraction)	1 mg/m3 TWA (respirable)	10 mg/m3 TWAEV	10 mg/m3 TWA LMPE -PPT (dust)	10 mg/m3 TWA (total dust); 5 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
Carbon (Proprietary)	TWAs	Not established	Not established	Not established	10 mg/m3 TWA LMPE -PPT	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 Al)	10 mg/m3 TWA LMPE -PPT	Not established
Silicon carbide (409-21-2)	STELs	Not established	Not established	Not established	20 mg/m3 STEL [LMPE-CT]	Not established
	TWAs	10 mg/m3 TWA (nonfibrous, inhalable fraction, particulate matter containing no asbestos and <1% crystalline silica); 3 mg/m3 TWA (nonfibrous, respirable fraction, particulate matter containing no asbestos and <1% crystalline silica); 0.1 fiber/cm3 TWA (as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination., respirable fibers, including whiskers, length >5 µm, aspect ratio >=3:1)	10 mg/m3 TWA (non- fibrous, containing no Asbestos and <1% Crystalline silica, inhalable); 3 mg/m3 TWA (non-fibrous, containing no Asbestos and <1% Crystalline silica, respirable); 0.1 fibre/cm3 TWA (fibrous, including whiskers, fibres >5 µm in length and an aspect ratio >=3:1 as determined by the membrane filter method at 400-450 times magnification (4 -mm objective), using phase-contrast illumination, respirable)	10 mg/m3 TWAEV (non fibrous, 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)

Exposure Limits/Guidelines (Con't.)

	Result	OSHA
Benzo(a)pyrene (50-32-8)	TWAs	0.2 mg/m3 TWA (listed under Coal tar pitch volatiles)
Chemical 1 (Proprietary)	TWAs	15 mg/m3 TWA (fume, total particulate)
Metal (Proprietary)	TWAs	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Aluminum oxide (1344-28-1)	TWAs	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Silicon carbide (409-21-2)	TWAs	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

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.

Personal Protective Equipment

Respiratory

- For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying 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.

- Eye/Face**
 - Wear safety goggles.
- Skin/Body**
 - Wear long sleeves and/or protective coveralls.
- General Industrial Hygiene Considerations**
 - Handle in accordance with good industrial hygiene and safety practice. Do not get in eyes or on skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.
- Environmental Exposure Controls**
 - Follow best practice for site management and disposal of waste. Dispose of in an approved landfill.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

STEV = Short Term Exposure Value

NIOSH = National Institute of Occupational Safety and Health

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

OSHA = Occupational Safety and Health Administration

TWAEV = Time-Weighted Average Exposure Value

STEL = Short Term Exposure Limits are based on 15-minute 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	pH	Not relevant
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		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	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		
Silicon carbide (77.85% TO 87.3%)	409-21-2	Tumorigen / Carcinogen: Intraperitoneal-Rat TDLo • 300 mg/kg 26 Week(s)-Intermittent; Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Gastrointestinal:Tumors
Metal (0.997% TO 3%)	Proprietary	Multi-dose Toxicity: Inhalation-Man TCLO • 4 mg/m ³ 1 Year(s)-Intermittent; Lungs, Thorax, or Respiration:Cough; Lungs, Thorax, or Respiration:Dyspnea; Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain; Inhalation-Rat TCLO • 206 mg/m ³ 5 Hour(s) 30 Day(s)-Intermittent; Lungs, Thorax, or Respiration:Fibrosis (interstitial); Endocrine:Hypoglycemia; Blood:Changes in serum composition (e.g., TP, bilirubin cholesterol)
Benzo(a) pyrene (0% TO 0.003%)	50-32-8	Irritation: Skin-Mouse • 14 µg • Mild irritation; Tumorigen / Carcinogen: Ingestion/Oral-Mouse TDLo • 700 mg/kg 75 Week(s)-Intermittent; Tumorigenic:Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration:Tumors; Blood:Leukemia; Ingestion/Oral-Mouse TDLo • 2340 mg/kg 39 Week(s)-Intermittent; Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Gastrointestinal:Tumors; Blood:Lymphoma, including Hodgkin's disease
Chemical 1 (0.0196% TO 0.049%)	Proprietary	Multi-dose Toxicity: Inhalation-Rat TCLO • 1000 mg/m ³ 4 Hour(s) 50 Day(s)-Intermittent; Lungs, Thorax, or Respiration:Other changes; Blood:Other hemolysis with or without anemia

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Data lacking
Skin corrosion/Irritation	OSHA HCS 2012 • Data lacking
Serious eye damage/Irritation	OSHA HCS 2012 • Data lacking
Skin sensitization	OSHA HCS 2012 • Skin Sensitizer 1
Respiratory sensitization	OSHA HCS 2012 • Data lacking
Aspiration Hazard	OSHA HCS 2012 • Data lacking
Carcinogenicity	OSHA HCS 2012 • Carcinogenicity 1A
Germ Cell Mutagenicity	OSHA HCS 2012 • Germ Cell Mutagenicity 1A
Toxicity for Reproduction	OSHA HCS 2012 • Toxic to Reproduction 1A
STOT-SE	OSHA HCS 2012 • Data lacking
STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1

Target Organs

- Lungs

Route(s) of entry/exposure

- Inhalation, Skin, Eye, and Ingestion

Medical Conditions

- Any pre-existing conditions of the lungs.

Aggravated by Exposure

Potential Health Effects

Inhalation

Acute (Immediate)

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

Chronic (Delayed)

- Chronic overexposure to dust containing respirable sized crystalline silica can cause delayed lung injury (silicosis).

Skin

Acute (Immediate)

- May cause skin sensitization. Symptoms include redness, and skin rash. Exposure to dust may cause mechanical irritation.

Chronic (Delayed)

- No data available.

Eye

Acute (Immediate)

- Exposure to dust may cause mechanical irritation. 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)

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

Chronic (Delayed)

- No data available.

Mutagenic Effects

- Repeated and prolonged exposure may cause mutagenic effects.

Carcinogenic Effects

- May cause cancer.

Carcinogenic Effects			
	CAS	IARC	NTP
Benzo(a)pyrene	50-32-8	Group 1-Carcinogenic	Reasonably Anticipated to be Human Carcinogen
Quartz	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen

Reproductive Effects

- Repeated and prolonged exposure may cause reproductive effects.

Key to abbreviations

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** • Acute, Chronic

State Right To Know				
Component	CAS	MA	NJ	PA
Metal	Proprietary	Yes	Yes	Yes
Aluminum oxide	1344-28-1	Yes	Yes	Yes
Benzo(a)pyrene	50-32-8	Yes	Yes	Yes
Quartz	14808-60-7	Yes	Yes	Yes

Inventory			
Component	CAS	Canada DSL	TSCA
Metal	Proprietary	Yes	Yes
Aluminum oxide	1344-28-1	Yes	Yes
Benzo(a)pyrene	50-32-8	Yes	Yes
Quartz	14808-60-7	Yes	Yes

Canada

Labor			
Canada - WHMIS - Classifications of Substances			
• Benzo(a)pyrene	50-32-8	D2A	Uncontrolled product according to WHMIS classification criteria B6 (powder); Uncontrolled product according to WHMIS classification criteria D2A (In certain cases, this
• Aluminum oxide	1344-28-1		
• Metal	Proprietary		

<ul style="list-style-type: none"> • 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		
• Benzo(a)pyrene	50-32-8	0.1 %
• Aluminum oxide	1344-28-1	1 %
• Metal	<i>Proprietary</i>	1 %
• Quartz	14808-60-7	1 %

United States

Environment

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Benzo(a)pyrene	50-32-8	1 lb final RQ; 0.454 kg final RQ
• Aluminum oxide	1344-28-1	Not Listed
• Metal	<i>Proprietary</i>	Not Listed
• Quartz	14808-60-7	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Benzo(a)pyrene	50-32-8	0.1 % Supplier notification limit (listed under Chemical Category N590, Polycyclic aromatic compounds)
• Aluminum oxide	1344-28-1	1.0 % de minimis concentration (fibrous forms)
• Metal	<i>Proprietary</i>	1.0 % de minimis concentration (dust or fume only)
• Quartz	14808-60-7	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Benzo(a)pyrene	50-32-8	100 lb RT (listed under Polycyclic aromatic compounds)
• Aluminum oxide	1344-28-1	Not Listed
• Metal	<i>Proprietary</i>	Not Listed
• Quartz	14808-60-7	Not Listed

U.S. - EPA - Designated Generic Categories - Polycyclic Aromatic Compounds

• Benzo(a)pyrene	50-32-8	
• Aluminum oxide	1344-28-1	Not Listed
• Metal	<i>Proprietary</i>	Not Listed
• Quartz	14808-60-7	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

• Benzo(a)pyrene	50-32-8	Included in waste streams: F032, F034, F037, F038, F039, K001, K035, K141, K142, K144, K145, K147, K148, K170
• Aluminum oxide	1344-28-1	Not Listed
• Metal	<i>Proprietary</i>	Not Listed
• Quartz	14808-60-7	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

• Benzo(a)pyrene	50-32-8	waste number U022
• Aluminum oxide	1344-28-1	Not Listed
• Metal	<i>Proprietary</i>	Not Listed
• Quartz	14808-60-7	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

• Benzo(a)pyrene	50-32-8	
• Aluminum oxide	1344-28-1	Not Listed
• Metal	<i>Proprietary</i>	Not Listed
• Quartz	14808-60-7	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards

• Benzo(a)pyrene	50-32-8	0.061 mg/L (wastewater); 3.4 mg/kg (nonwastewater)
• Aluminum oxide	1344-28-1	Not Listed
• Metal	<i>Proprietary</i>	Not Listed
• Quartz	14808-60-7	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring

• Benzo(a)pyrene	50-32-8	
• Aluminum oxide	1344-28-1	Not Listed
• Metal	<i>Proprietary</i>	Not Listed
• Quartz	14808-60-7	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

• Benzo(a)pyrene	50-32-8	waste number U022
• Aluminum oxide	1344-28-1	Not Listed
• Metal	<i>Proprietary</i>	Not Listed
• Quartz	14808-60-7	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Waste Minimization Priority Chemicals

• Benzo(a)pyrene	50-32-8	(listed under Polycyclic aromatic compounds)
• Aluminum oxide	1344-28-1	Not Listed
• Metal	<i>Proprietary</i>	Not Listed
• Quartz	14808-60-7	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• Benzo(a)pyrene	50-32-8	carcinogen, initial date 7/1/87
• Aluminum oxide	1344-28-1	Not Listed
• Metal	<i>Proprietary</i>	Not Listed
• Quartz	14808-60-7	carcinogen, initial date 10/1/88 (airborne particles of respirable size)

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Benzo(a)pyrene	50-32-8	0.06 µg/day NSRL
• Aluminum oxide	1344-28-1	Not Listed
• Metal	<i>Proprietary</i>	Not Listed
• Quartz	14808-60-7	Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

• Benzo(a)pyrene	50-32-8	
• Aluminum oxide	1344-28-1	
• Metal	<i>Proprietary</i>	
• Quartz	14808-60-7	Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• Benzo(a)pyrene	50-32-8	
• Aluminum oxide	1344-28-1	Not Listed
• Metal	<i>Proprietary</i>	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	• 01/May/2018
Last Revision Date	• 22/December/2014
Preparation Date	• 01/June/2009
Disclaimer/Statement of Liability	• 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