Safety Data Sheet



Section 1: Identification

Product identifier

Product Name • Reno Cast 65 LC/AL

Product Code • 149300

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 - Lungs through prolonged or repeated exposure via

Inhalation

Precautionary statements

Prevention • Obtain special instructions before use.

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

Do not breathe dust, fume, gas, mist, vapours and/or spray.

Wash thoroughly after handling.

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

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

Response • 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

• 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

Label elements

WHMIS .



WHMIS

 Other Toxic Effects - D2A

Other hazards

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

Workplace Hazardous Materials Information System (WHMIS).

See Section 12 for Ecological Information.

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		
Mullite	CAS:1302-93-8 EC Number:215 -113-2	43.72% TO 50.18%	NDA	OSHA HCS 2012: STOT RE 2 (Lungs)	NDA		
Aluminum oxide	CAS:1344-28-1 EC Number:215 -691-6	19.8% TO 26%	NDA	OSHA HCS 2012: Not Classified - Criteria not met	NDA		
Silica, amorphous	CAS:7631-86-9 EC Number:231 -545-4	12.28% TO 13.93%	NDA	OSHA HCS 2012: Data Lacking	NDA		

Cement, alumina, chemicals	CAS:65997-16-2 EC Number:266 -045-5	5% TO 8%	NDA	OSHA HCS 2012: Skin Irrit. 2, Eye Irrit. 2A	NDA
Amorphous silica fume	CAS:69012-64-2 EC Number:273 -761-1	3.6% TO 8%	NDA	OSHA HCS 2012: STOT RE 1 (Lungs)	NDA
Non-Wetting Agent	Proprietary	0.94% TO 3.9%	Ingestion/Oral-Rat LD50 • 4417 mg/kg	OSHA HCS 2012: WHMIS: Other Toxic Effects - D2B	NDA
Aluminum(III) silicate (2:1)	CAS:1302-76-7 EINECS:215-106- 4	0.595% TO 0.99%	NDA	OSHA HCS 2012: STOT RE2 (Lungs)	NDA
Cristobalite	CAS:14464-46-1 EC Number:238 -455-4	< 0.1796%	NDA	OSHA HCS 2012: Carc. 1A	NDA
Triphosphoric acid, sodium salt (1:5)	CAS:7758-29-4	0.093% TO 0.1395%	Ingestion/Oral-Rat LD50 • 3120 mg/kg	OSHA HCS 2012: WHMIS: Other Toxic Effects - D2B	NDA
Limestone	CAS :1317-65-3	0.01% TO 0.116%	NDA	OSHA HCS 2012: WHMIS: Other Toxic Effects - D2A	NDA
Polyphosphoric acids, sodium salts	CAS:68915-31-1	0.05% TO 0.1%	Ingestion/Oral-Rat LD50 • 3053 mg/kg	OSHA HCS 2012: WHMIS: Other Toxic Effects - D2B	NDA
1-Propene, homopolymer	CAS:9003-07-0	0.06% TO 0.09%	NDA	OSHA HCS 2012: Data Lacking	NDA
Quartz	CAS:14808-60-7 EC Number:238 -878-4	0.035% TO 0.085%	NDA	OSHA HCS 2012: Carc. 1A; STOT RE 1(Lungs)	NDA
Titanium dioxide	CAS:13463-67-7 EC Number:236 -675-5	0.007% TO 0.055%	NDA	OSHA HCS 2012: Carc. 2	NDA
Blancol	CAS:9084-06-4	0.0088% TO 0.0176%	Ingestion/Oral-Rat LD50 • 3800 mg/kg	OSHA HCS 2012: WHMIS:	NDA
Diphosphoric acid, sodium salt (1:4)	CAS:7722-88-5	0.005% TO 0.0075%	Ingestion/Oral-Mouse LD50 • 2980 mg/kg	OSHA HCS 2012: WHMIS: Other Toxic Effects - D2B	NDA
Sodium trimetaphosphate	CAS:7785-84-4	0.002% TO 0.003%	Ingestion/Oral-Mouse LD50 • 10300 mg/kg	OSHA HCS 2012: WHMIS: Other Toxic Effects - D2B	NDA
Sodium sulfate	CAS:7757-82-6	0.0009% TO 0.0018%	Ingestion/Oral-Mouse LD50 • 5989 mg/kg	OSHA HCS 2012: WHMIS:	NDA
Chemical	Proprietary	< 0.00001%	Ingestion/Oral-Rat LD50 • 100 mg/kg	OSHA HCS 2012: WHMIS: Corrosive - E; Toxic - D1B	NDA

See Section 11 for Toxicological Information.

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

Skin

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

• 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

Unsuitable Extinguishing Media

None known.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion

Useredo

Hazards

Hazardous Combustion

Products

None known.

None known.

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 touch or walk through spilled material. Ensure adequate ventilation to remove
vapors, fumes, dust etc.

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

Preparation Date: 30/July/2013

Revision Date: 27/April/2018

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Format: GHS Language: English (US)
OSHA HCS 2012, WHMIS

Precautions for safe handling

Handling

 Do not breathe dust. Wash thoroughly after handling. Do not use in areas without adequate ventilation. Avoid contact with skin, eyes, and clothing. Minimize dust generation and accumulation. Use good safety and industrial hygiene practices. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Wear long sleeves and/or protective coveralls. Contaminated clothing must be vacuumed before removal. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

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		
Reno Cast 65 LC/AL	TWAs (respirable particles, recommended)		10 mg/m3 TWAEV (inhalable particulate); 3 mg/m3 TWAEV (respirable particulate)	10 mg/m3 TWAEV (total dust, containing no asbestos and less than 1% crystalline silica)	Not established	Not established		
		as Particulates not otherwise classified (PNOC)	as Particulates not otherwise classified (PNOC)	as Particulates not otherwise classified (PNOC)				
Chemical	Ceilings	0.3 ppm Ceiling	1.5 ppm CEV	2 ppm Ceiling; 3 mg/m3 Ceiling	2 ppm Ceiling; 3 mg/m3 Ceiling	0.1 ppm Ceiling (15 min)		
	STELs	Not established	1.0 ppm STEV	Not established	Not established	Not established		
TWA		Not established	Not established	Not established	Not established	0.016 ppm TWA		
Diphosphoric acid, sodium salt (1:4) (7722-88-5)	TWAs	Not established	5 mg/m3 TWAEV	5 mg/m3 TWAEV	Not established	5 mg/m3 TWA		
	STELs	Not established	Not established	Not established	20 mg/m3 STEL [LMPE-CT] (as Ti)	Not established		
Titanium dioxide (13463-67-7)	TWAs	10 mg/m3 TWA	10 mg/m3 TWAEV (total dust)	10 mg/m3 TWAEV (total dust, containing no asbestos and less than 1% crystalline silica)	10 mg/m3 TWA LMPE -PPT (as Ti)	Not established		
Quartz (14808-60-7)	TWAs	0.025 mg/m3 TWA (respirable fraction)	0.10 mg/m3 TWAEV (designated substance regulation)	0.1 mg/m3 TWAEV (respirable dust)	0.1 mg/m3 TWA LMPE-PPT (respirable fraction)	0.05 mg/m3 TWA (respirable dust)		
Cristobalite (14464-46-1)	TWAs	0.025 mg/m3 TWA (respirable fraction)	0.05 mg/m3 TWAEV (designated substance regulation)	0.05 mg/m3 TWAEV (respirable dust)	0.05 mg/m3 TWA LMPE-PPT (respirable fraction)	0.05 mg/m3 TWA (respirable dust)		

Amorphous silica fume (69012-64-2)	TWAs	Not established		g/m3 TWAEV ne, respirable)	(res	ng/m3 TWAEV spirable dust, staining no sestos and less in 1% crystalline ca)	2 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	Not established No		established	Not established	6 mg/m3 TWA
Aluminum oxide (1344-28-1)	TWAs	1 mg/m3 TWA (respirable fraction) as Aluminum insoluble compounds		10 mg/m3 TWAEV (total no a than		mg/m3 TWAEV al dust, containing asbestos and less n 1% crystalline ca, as Al)	10 mg/m3 TWA LMPE -PPT	Not established
		Ex	pos	ure Limits/Gui	del	ines (Con't.)		
				Result			OSHA	
Reno Cast 65 LC/A	L			TWAs		15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) as Particulates not otherwise classified (PNOC)		
Chemical				STELs		2 ppm STEL (see 29 CFR 1910.1048)		
(Proprietary)			TWAs		0.75 ppm TWA			
Titanium dioxide (13463-67-7)			TWAs 15 mg/m3 TWA (total dust)		-			
Aluminum oxide (1344-28-1)				TWAs		15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fract		A (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. 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 accumalation 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.

Eye/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

 $\label{eq:acgin} \text{ACGIH} = \frac{\text{American Conference of Governmental Industrial}}{\text{Hygiene}}$

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

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

TWAEV = Time-Weighted Average Exposure Value

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
Odor Threshold	Data lacking		
General Properties		·	-
Boiling Point	Data lacking	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	рН	Data lacking
Specific Gravity/Relative Density	= 2.56 Water=1	Water Solubility	Negligible
Viscosity	Data lacking		
Volatility		·	•
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability		<u>.</u>	•
Flash Point	Data lacking	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Not flammable.		
Environmental	•	•	
Octanol/Water Partition coefficient	Data lacking		

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				
Silica, amorphous (12.28% TO 13.93%)	7631-86- 9	Irritation: Eye-Rabbit • 25 mg 24 Hour(s) • Mild irritation		
Titanium dioxide (0.007% TO 0.055%)	II 1 3/4h 3-	Irritation: Skin-Human • 300 μg 3 Day(s)-Intermittent • Mild irritation; Tumorigen / Carcinogen: Inhalation-Rat TCLo • 250 mg/m³ 6 Hour(s) 2 Year(s)-Intermittent; Tumorigenic:Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration:Tumors		

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Classification criteria not met
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	OSHA HCS 2012 • Carcinogenicity 1A
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Classification criteria not met
STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1

Target Organs

Inhalation

Route(s) of entry/exposure

Medical Conditions Aggravated by Exposure Potential Health Effects Lungs

· 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)

Chronic (Delayed)

• Exposure to dust may cause mechanical irritation.

No data available.

Eye

Acute (Immediate)

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

No data available.

Chronic (Delayed) Ingestion

Acute (Immediate)

irritation to

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

Chronic (Delayed)

Carcinogenic Effects

· No data available.

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

Carcinogenic Effects						
CAS OSHA IARC NTP						
Chemical	Proprietary	Specifically Regulated Carcinogen	Group 1-Carcinogenic	Known Human Carcinogen		
Titanium dioxide	13463-67-7	Not Listed	Group 2B-Possible Carcinogen	Not Listed		
Quartz	14808-60-7	Not Listed	Group 1-Carcinogenic	Known Human Carcinogen		
Cristobalite	14464-46-1	Not Listed	Group 1-Carcinogenic	Not Listed		

Key to abbreviations

MLD = Mild

TC = Toxic Concentration

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 known.

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

110110 141101111

· Not relevant.

Format: GHS Language: English (US)
OSHA HCS 2012, WHMIS

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		
Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC)	NDA	No	No	No		
Aluminum oxide	1344-28-1	Yes	Yes	Yes		
Cristobalite	14464-46-1	Yes	Yes	Yes		
Diphosphoric acid, sodium salt (1:4)	7722-88-5	Yes	Yes	Yes		
Chemical	Proprietary	Yes	Yes	Yes		
Quartz	14808-60-7	Yes	Yes	Yes		
Silica, amorphous	7631-86-9	Yes	Yes	Yes		
Sodium sulfate	7757-82-6	Yes	No	Yes		
Sodium trimetaphosphate	7785-84-4	Yes	No	Yes		
Titanium dioxide	13463-67-7	Yes	Yes	Yes		
Triphosphoric acid, sodium salt (1:5)	7758-29-4	Yes	No	Yes		

	Inventory						
Component	CAS	Canada DSL	TSCA				
Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC)	NDA	No	No				
Aluminum oxide	1344-28-1	Yes	Yes				
Cristobalite	14464-46-1	Yes	Yes				
Diphosphoric acid, sodium salt (1:4)	7722-88-5	Yes	Yes				
Chemical	Proprietary	Yes	Yes				
Quartz	14808-60-7	Yes	Yes				
Silica, amorphous	7631-86-9	Yes	Yes				
Sodium sulfate	7757-82-6	Yes	Yes				
Sodium trimetaphosphate	7785-84-4	Yes	Yes				
Titanium dioxide	13463-67-7	Yes	Yes				
Triphosphoric acid, sodium salt (1:5)	7758-29-4	Yes	Yes				

Canada

Labor

Canada - WHMIS - Classifications of Substances

Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC)		Not Listed
Sodium trimetaphosphate	7785-84-4	Not Listed
Triphosphoric acid, sodium salt (1:5)	7758-29-4	Not Listed
Chemical	Proprietary	A, B1, D1A, D2A, D2B; B3, D1A, D2A, D2B, E (regulated under Formol)
Titanium dioxide	13463-67-7	D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Titanium dioxide, mixture containing on Health
		Canada's WHMIS Division website.)
Diphosphoric acid, sodium salt (1:4)	7722-88-5	D2B
Aluminum oxide	1344-28-1	Uncontrolled product according to WHMIS classification criteria
Aluminum oxide as Aluminum insoluble compounds		Not Listed
Sodium sulfate	7757-82-6	Uncontrolled product according to WHMIS classification criteria
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 website.)
Silica, amorphous	7631-86-9	Uncontrolled product according to WHMIS classification criteria
• Quartz	14808-60-7	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 website.)
Canada - WHMIS - Ingredient Disclosure List		
Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC)		Not Listed
Sodium trimetaphosphate	7785-84-4	Not Listed
Triphosphoric acid, sodium salt (1:5)	7758-29-4	Not Listed
• Chemical	Proprietary	0.1 %
Titanium dioxide	13463-67-7	Not Listed
Diphosphoric acid, sodium salt (1:4)	7722-88-5	1 %
Aluminum oxide	1344-28-1	1 %
Aluminum oxide as Aluminum insoluble compounds		Not Listed
Sodium sulfate	7757-82-6	Not Listed
Cristobalite	14464-46-1	1 %
Silica, amorphous	7631-86-9	1 %
• Quartz	14808-60-7	1 %

Environment Canada - CEPA - Priority Substances List		
Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC)		Not Listed
Sodium trimetaphosphate	7785-84-4	Not Listed
Triphosphoric acid, sodium salt (1:5)	7758-29-4	Not Listed
• Chemical	Proprietary	Priority Substance List 2 (substance considered toxic)
Titanium dioxide	13463-67-7	Not Listed
Diphosphoric acid, sodium salt (1:4)	7722-88-5	Not Listed
Aluminum oxide	1344-28-1	Not Listed
Aluminum oxide as Aluminum insoluble compounds		Not Listed
Sodium sulfate	7757-82-6	Not Listed
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
• Quartz	14808-60-7	Not Listed
Canada - CEPA - Schedule I - List of Toxic Substances		
Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC)		Not Listed
Sodium trimetaphosphate	7785-84-4	Not Listed
Triphosphoric acid, sodium salt (1:5)	7758-29-4	Not Listed
Chemical	Proprietary	
Titanium dioxide	13463-67-7	Not Listed
Diphosphoric acid, sodium salt (1:4)	7722-88-5	Not Listed
Aluminum oxide	1344-28-1	Not Listed
Aluminum oxide as Aluminum insoluble compounds		Not Listed
Sodium sulfate	7757-82-6	Not Listed
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
• Quartz	14808-60-7	Not Listed

Mexico

HICAICO		
Other Mexico - Hazard Classifications		
 Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC) 		Not Listed
Sodium trimetaphosphate	7785-84-4	Not Listed
Triphosphoric acid, sodium salt (1:5)	7758-29-4	Not Listed
• Chemical	Proprietary	Hazard Class = 3 (8) PG = III UN1198; Hazard Class = 8 PG = III (with not <25% formaldehyde) UN2209
Titanium dioxide	13463-67-7	Not Listed
Diphosphoric acid, sodium salt (1:4)	7722-88-5	Not Listed
Aluminum oxide	1344-28-1	Not Listed
Aluminum oxide as Aluminum insoluble compounds		Not Listed
Sodium sulfate	7757-82-6	Not Listed
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
• Quartz	14808-60-7	Not Listed
Mexico - Regulated Substances		
Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC)		Not Listed
Sodium trimetaphosphate	7785-84-4	Not Listed
Triphosphoric acid, sodium salt (1:5)	7758-29-4	Not Listed

Chemical	Proprietary	UN1198; UN2209 (with not <25% formaldehyde)
Titanium dioxide	13463-67-7	Not Listed
Diphosphoric acid, sodium salt (1:4)	7722-88-5	Not Listed
Aluminum oxide	1344-28-1	Not Listed
Aluminum oxide as Aluminum insoluble compounds		Not Listed
Sodium sulfate	7757-82-6	Not Listed
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
• Quartz	14808-60-7	Not Listed

United States

 Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC) 		Not Listed
Sodium trimetaphosphate	7785-84-4	Not Listed
Triphosphoric acid, sodium salt (1:5)	7758-29-4	Not Listed
• Chemical	Proprietary	1000 lb TQ
Titanium dioxide	13463-67-7	Not Listed
Diphosphoric acid, sodium salt (1:4)	7722-88-5	Not Listed
• Aluminum oxide	1344-28-1	Not Listed
Aluminum oxide as Aluminum insoluble compounds		Not Listed
Sodium sulfate	7757-82-6	Not Listed
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
• Quartz	14808-60-7	Not Listed
I.S OSHA - Specifically Regulated Chemicals		
Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC)		Not Listed
Sodium trimetaphosphate	7785-84-4	Not Listed
Triphosphoric acid, sodium salt (1:5)	7758-29-4	Not Listed
		2 ppm STEL (Irritant and
		potential cancer hazard, See
Chemical	Proprietary	29 CFR 1910.1048, 15 min);
		0.5 ppm Action Level; 0.75
		ppm TWA
Titanium dioxide	13463-67-7	Not Listed
Diphosphoric acid, sodium salt (1:4)	7722-88-5	Not Listed
Aluminum oxide	1344-28-1	Not Listed
Aluminum oxide as Aluminum insoluble compounds		Not Listed
Sodium sulfate	7757-82-6	Not Listed
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
• Quartz	14808-60-7	Not Listed

Environment

NI a 4 I day	
Not List	ted
5-84-4 Not List	ted
8-29-4 Not List	ted
prietary	
63-67-7 Not List	ted
2-88-5 Not List	ted
4-28-1 Not List	ted
	2-88-5 Not Lis

Aluminum oxide as Aluminum insoluble compounds		Not Listed
Sodium sulfate	7757-82-6	Not Listed
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
• Quartz	14808-60-7	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC)		Not Listed
Sodium trimetaphosphate	7785-84-4	Not Listed
Triphosphoric acid, sodium salt (1:5)	7758-29-4	Not Listed
Chemical	Proprietary	100 lb final RQ; 45.4 kg final RQ
Titanium dioxide	13463-67-7	Not Listed
Diphosphoric acid, sodium salt (1:4)	7722-88-5	Not Listed
Aluminum oxide	1344-28-1	Not Listed
Aluminum oxide as Aluminum insoluble compounds		Not Listed
Sodium sulfate	7757-82-6	Not Listed
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
• Quartz	14808-60-7	Not Listed
U.O. OFROLAIOARA Ocation 200 Fataura by Harrardous Ochotomas FRORA ROS		
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs • Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC)		Not Listed
Sodium trimetaphosphate	7785-84-4	Not Listed
Triphosphoric acid, sodium salt (1:5)	7758-29-4	Not Listed
Chemical	Proprietary	100 lb EPCRA RQ
Titanium dioxide	13463-67-7	Not Listed
Diphosphoric acid, sodium salt (1:4)	7722-88-5	Not Listed
Aluminum oxide	1344-28-1	Not Listed
Aluminum oxide as Aluminum insoluble compounds	1044 20 1	Not Listed
Sodium sulfate	7757-82-6	Not Listed
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
• Quartz	14808-60-7	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		Not Listed
Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC) Sedium trimetaphaephaep	7705 04 4	Not Listed
Sodium trimetaphosphate Triphosphoria gold godium celt (1:5)	7785-84-4 7758-29-4	Not Listed Not Listed
Triphosphoric acid, sodium salt (1:5) Chemical		500 lb TPQ
Titanium dioxide	Proprietary 13463-67-7	Not Listed
Diphosphoric acid, sodium salt (1:4)	7722-88-5	Not Listed
Aluminum oxide		Not Listed
	1344-28-1	
Aluminum oxide as Aluminum insoluble compounds Sodium sulfate	7757-82-6	Not Listed Not Listed
Cristobalite	7757-82-6 14464-46-1	Not Listed Not Listed
Silica, amorphous Ouartz	7631-86-9	Not Listed
• Quartz	14808-60-7	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting		
Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC)		Not Listed
Sodium trimetaphosphate	7785-84-4	Not Listed
Triphosphoric acid, sodium salt (1:5)	7758-29-4	Not Listed
Chemical	Proprietary	0.1 % de minimis
	cpinotally	concentration

Titanium dioxide	13463-67-7	Not Listed
Diphosphoric acid, sodium salt (1:4)	7722-88-5	Not Listed
Aluminum oxide	1344-28-1	1.0 % de minimis concentration (fibrous forms
Aluminum oxide as Aluminum insoluble compounds		Not Listed
Sodium sulfate	7757-82-6	Not Listed
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
• Quartz	14808-60-7	Not Listed
LC DCDA (Decouves Componistion 9 Decouvery Act). Book for Listing. Am	mandiy VII	
 J.S RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Ap Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC) 	ppendix vii	Not Listed
Sodium trimetaphosphate	7785-84-4	Not Listed
	7758-29-4	Not Listed
Triphosphoric acid, sodium salt (1:5)	1130-29-4	
Chemical	Proprietary	Included in waste streams: K009, K010, K038, K040, K156, K157
Titanium dioxide	13463-67-7	Not Listed
Diphosphoric acid, sodium salt (1:4)	7722-88-5	Not Listed
Aluminum oxide	1344-28-1	Not Listed
Aluminum oxide as Aluminum insoluble compounds		Not Listed
Sodium sulfate	7757-82-6	Not Listed
• Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
• Quartz	14808-60-7	Not Listed
	7785-84-4 7758-20-4	Not Listed
Sodium trimetaphosphate	7785-84-4	Not Listed
Triphosphoric acid, sodium salt (1:5)	7758-29-4	Not Listed
Chemical		
TV 1 1 1 1 1	Proprietary	waste number U122
	13463-67-7	Not Listed
Diphosphoric acid, sodium salt (1:4)	13463-67-7 7722-88-5	Not Listed Not Listed
Diphosphoric acid, sodium salt (1:4)Aluminum oxide	13463-67-7	Not Listed Not Listed Not Listed
 Diphosphoric acid, sodium salt (1:4) Aluminum oxide Aluminum oxide as Aluminum insoluble compounds 	13463-67-7 7722-88-5 1344-28-1	Not Listed Not Listed Not Listed Not Listed
 Diphosphoric acid, sodium salt (1:4) Aluminum oxide Aluminum oxide as Aluminum insoluble compounds Sodium sulfate 	13463-67-7 7722-88-5 1344-28-1 7757-82-6	Not Listed Not Listed Not Listed Not Listed Not Listed
 Diphosphoric acid, sodium salt (1:4) Aluminum oxide Aluminum oxide as Aluminum insoluble compounds Sodium sulfate Cristobalite 	13463-67-7 7722-88-5 1344-28-1 7757-82-6 14464-46-1	Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed
 Diphosphoric acid, sodium salt (1:4) Aluminum oxide Aluminum oxide as Aluminum insoluble compounds Sodium sulfate Cristobalite Silica, amorphous 	13463-67-7 7722-88-5 1344-28-1 7757-82-6	Not Listed
Aluminum oxide as Aluminum insoluble compoundsSodium sulfate	13463-67-7 7722-88-5 1344-28-1 7757-82-6 14464-46-1	Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed
 Diphosphoric acid, sodium salt (1:4) Aluminum oxide Aluminum oxide as Aluminum insoluble compounds Sodium sulfate Cristobalite Silica, amorphous Quartz J.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Act 	13463-67-7 7722-88-5 1344-28-1 7757-82-6 14464-46-1 7631-86-9 14808-60-7	Not Listed
 Diphosphoric acid, sodium salt (1:4) Aluminum oxide Aluminum oxide as Aluminum insoluble compounds Sodium sulfate Cristobalite Silica, amorphous Quartz J.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Accharacteristics 	13463-67-7 7722-88-5 1344-28-1 7757-82-6 14464-46-1 7631-86-9 14808-60-7	Not Listed
 Diphosphoric acid, sodium salt (1:4) Aluminum oxide Aluminum oxide as Aluminum insoluble compounds Sodium sulfate Cristobalite Silica, amorphous Quartz J.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Actharacteristics Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC) 	13463-67-7 7722-88-5 1344-28-1 7757-82-6 14464-46-1 7631-86-9 14808-60-7	Not Listed
 Diphosphoric acid, sodium salt (1:4) Aluminum oxide Aluminum oxide as Aluminum insoluble compounds Sodium sulfate Cristobalite Silica, amorphous Quartz J.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Actionacteristics Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC) Sodium trimetaphosphate 	13463-67-7 7722-88-5 1344-28-1 7757-82-6 14464-46-1 7631-86-9 14808-60-7 cutely Toxic Wastes & 0	Not Listed
 Diphosphoric acid, sodium salt (1:4) Aluminum oxide Aluminum oxide as Aluminum insoluble compounds Sodium sulfate Cristobalite Silica, amorphous Quartz J.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Actionacteristics Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC) Sodium trimetaphosphate Triphosphoric acid, sodium salt (1:5) 	13463-67-7 7722-88-5 1344-28-1 7757-82-6 14464-46-1 7631-86-9 14808-60-7 Eutely Toxic Wastes & 0 7785-84-4 7758-29-4	Not Listed Other Hazardous Not Listed Not Listed Not Listed Not Listed Not Listed
 Diphosphoric acid, sodium salt (1:4) Aluminum oxide Aluminum oxide as Aluminum insoluble compounds Sodium sulfate Cristobalite Silica, amorphous Quartz J.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Actharacteristics Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC) Sodium trimetaphosphate Triphosphoric acid, sodium salt (1:5) Chemical 	13463-67-7 7722-88-5 1344-28-1 7757-82-6 14464-46-1 7631-86-9 14808-60-7 Eutely Toxic Wastes & 0 7785-84-4 7758-29-4 Proprietary	Not Listed
 Diphosphoric acid, sodium salt (1:4) Aluminum oxide Aluminum oxide as Aluminum insoluble compounds Sodium sulfate Cristobalite Silica, amorphous Quartz J.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Actharacteristics Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC) Sodium trimetaphosphate Triphosphoric acid, sodium salt (1:5) Chemical Titanium dioxide 	13463-67-7 7722-88-5 1344-28-1 7757-82-6 14464-46-1 7631-86-9 14808-60-7 Cutely Toxic Wastes & 0 7785-84-4 7758-29-4 Proprietary 13463-67-7	Not Listed Vother Hazardous Not Listed
 Diphosphoric acid, sodium salt (1:4) Aluminum oxide Aluminum oxide as Aluminum insoluble compounds Sodium sulfate Cristobalite Silica, amorphous Quartz I.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acthoracteristics Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC) Sodium trimetaphosphate Triphosphoric acid, sodium salt (1:5) Chemical Titanium dioxide Diphosphoric acid, sodium salt (1:4) 	13463-67-7 7722-88-5 1344-28-1 7757-82-6 14464-46-1 7631-86-9 14808-60-7 cutely Toxic Wastes & 0 7785-84-4 7758-29-4 Proprietary 13463-67-7 7722-88-5	Not Listed Vother Hazardous Not Listed
 Diphosphoric acid, sodium salt (1:4) Aluminum oxide Aluminum oxide as Aluminum insoluble compounds Sodium sulfate Cristobalite Silica, amorphous Quartz I.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Actharacteristics Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC) Sodium trimetaphosphate Triphosphoric acid, sodium salt (1:5) Chemical Titanium dioxide Diphosphoric acid, sodium salt (1:4) Aluminum oxide 	13463-67-7 7722-88-5 1344-28-1 7757-82-6 14464-46-1 7631-86-9 14808-60-7 Cutely Toxic Wastes & 0 7785-84-4 7758-29-4 Proprietary 13463-67-7	Not Listed Vother Hazardous Not Listed
 Diphosphoric acid, sodium salt (1:4) Aluminum oxide Aluminum oxide as Aluminum insoluble compounds Sodium sulfate Cristobalite Silica, amorphous Quartz J.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Actinaracteristics Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC) Sodium trimetaphosphate Triphosphoric acid, sodium salt (1:5) Chemical Titanium dioxide Diphosphoric acid, sodium salt (1:4) Aluminum oxide as Aluminum insoluble compounds 	13463-67-7 7722-88-5 1344-28-1 7757-82-6 14464-46-1 7631-86-9 14808-60-7 Eutely Toxic Wastes & G 7785-84-4 7758-29-4 Proprietary 13463-67-7 7722-88-5 1344-28-1	Not Listed Other Hazardous Not Listed
 Diphosphoric acid, sodium salt (1:4) Aluminum oxide Aluminum oxide as Aluminum insoluble compounds Sodium sulfate Cristobalite Silica, amorphous Quartz J.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Activate is a conservation of the recovery act (PNOC) Sodium trimetaphosphate Triphosphoric acid, sodium salt (1:5) Chemical Titanium dioxide Diphosphoric acid, sodium salt (1:4) Aluminum oxide as Aluminum insoluble compounds Sodium sulfate 	13463-67-7 7722-88-5 1344-28-1 7757-82-6 14464-46-1 7631-86-9 14808-60-7 Sutely Toxic Wastes & 6 7785-84-4 7758-29-4 Proprietary 13463-67-7 7722-88-5 1344-28-1	Not Listed Vother Hazardous Not Listed
 Diphosphoric acid, sodium salt (1:4) Aluminum oxide Aluminum oxide as Aluminum insoluble compounds Sodium sulfate Cristobalite Silica, amorphous Quartz J.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Activateristics Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC) Sodium trimetaphosphate Triphosphoric acid, sodium salt (1:5) Chemical Titanium dioxide Diphosphoric acid, sodium salt (1:4) Aluminum oxide as Aluminum insoluble compounds Sodium sulfate Cristobalite 	13463-67-7 7722-88-5 1344-28-1 7757-82-6 14464-46-1 7631-86-9 14808-60-7 Eutely Toxic Wastes & 0 7785-84-4 7758-29-4 Proprietary 13463-67-7 7722-88-5 1344-28-1 7757-82-6 14464-46-1	Not Listed Other Hazardous Not Listed
 Diphosphoric acid, sodium salt (1:4) Aluminum oxide Aluminum oxide as Aluminum insoluble compounds Sodium sulfate Cristobalite Silica, amorphous Quartz U.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Actionarcteristics Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC) Sodium trimetaphosphate Triphosphoric acid, sodium salt (1:5) Chemical Titanium dioxide Diphosphoric acid, sodium salt (1:4) Aluminum oxide as Aluminum insoluble compounds Sodium sulfate 	13463-67-7 7722-88-5 1344-28-1 7757-82-6 14464-46-1 7631-86-9 14808-60-7 Sutely Toxic Wastes & 6 7785-84-4 7758-29-4 Proprietary 13463-67-7 7722-88-5 1344-28-1	Not Listed Vother Hazardous Not Listed

United States - California

Environment U.S California - Proposition 65 - Carcinogens List		
Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC)		Not Listed
Sodium trimetaphosphate	7785-84-4	Not Listed
Triphosphoric acid, sodium salt (1:5)	7758-29-4	Not Listed
• Chemical	Proprietary	carcinogen, initial date 1/1/88 (gas)
Titanium dioxide	13463-67-7	carcinogen, initial date 9/2/11 (airborne, unbound particles of respirable size)
Diphosphoric acid, sodium salt (1:4)	7722-88-5	Not Listed
Aluminum oxide	1344-28-1	Not Listed
Aluminum oxide as Aluminum insoluble compounds		Not Listed
Sodium sulfate	7757-82-6	Not Listed
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	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)		
Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC)		Not Listed
Sodium trimetaphosphate	7785-84-4	Not Listed
Triphosphoric acid, sodium salt (1:5)	7758-29-4	Not Listed
Chemical	Proprietary	40 μg/day NSRL (gas)
Titanium dioxide	13463-67-7	Not Listed
Diphosphoric acid, sodium salt (1:4)	7722-88-5	Not Listed
Aluminum oxide	1344-28-1	Not Listed
Aluminum oxide as Aluminum insoluble compounds		Not Listed
Sodium sulfate	7757-82-6	Not Listed
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
• Quartz	14808-60-7	Not Listed

United States - Pennsylvania

Labor U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List			
Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC)		Not Listed	
Sodium trimetaphosphate	7785-84-4		
Triphosphoric acid, sodium salt (1:5)	7758-29-4		
• Chemical	Proprietary		
Titanium dioxide	13463-67-7	Not Listed	
Diphosphoric acid, sodium salt (1:4)	7722-88-5	Not Listed	
Aluminum oxide	1344-28-1		
Aluminum oxide as Aluminum insoluble compounds		Not Listed	
Sodium sulfate	7757-82-6	(solution)	
Cristobalite	14464-46-1	Not Listed	
Silica, amorphous	7631-86-9	Not Listed	
• Quartz	14808-60-7	Not Listed	
J.S Pennsylvania - RTK (Right to Know) - Special Hazardous Substances			
Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC)		Not Listed	
Sodium trimetaphosphate	7785-84-4	Not Listed	

Triphosphoric acid, sodium salt (1:5)	7758-29-4 No	t Listed
Chemical	Proprietary	
Titanium dioxide	13463-67-7 No	t Listed
Diphosphoric acid, sodium salt (1:4)	7722-88-5 No	t Listed
Aluminum oxide	1344-28-1 No	t Listed
Aluminum oxide as Aluminum insoluble compounds	No	t Listed
Sodium sulfate	7757-82-6 No	t Listed
Cristobalite	14464-46-1 No	t Listed
Silica, amorphous	7631-86-9 No	t Listed
• Quartz	14808-60-7 No	t Listed

United States - Rhode Island

.S Rhode Island - Hazardous Substance List		
 Reno Cast 65 LC/AL as Particulates not otherwise classified (PNOC) 		Toxic
Sodium trimetaphosphate	7785-84-4	Not Listed
Triphosphoric acid, sodium salt (1:5)	7758-29-4	Not Listed
Chemical	Proprietary	Toxic; Flammable; Carcinoger
Titanium dioxide	13463-67-7	Toxic
Diphosphoric acid, sodium salt (1:4)	7722-88-5	Toxic
Aluminum oxide	1344-28-1	Toxic
Aluminum oxide as Aluminum insoluble compounds		Not Listed
Sodium sulfate	7757-82-6	Not Listed
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
• Quartz	14808-60-7	Toxic (dust and fiber)

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

- 27/April/2018
- 08/May/2017
- 30/July/2013
- 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