#### **Safety Data Sheet**



#### **Section 1: Identification**

**Product identifier** 

Product Name • Reno Pump 90 LW/FF/SS

Product Code • 138700

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.

PO 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 Irritation 2 - H315

Serious Eye Damage 1 - H318

Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335

Carcinogenicity 1A - H350

Specific Target Organ Toxicity Repeated Exposure 1 - H372

Label elements

**OSHA HCS 2012** 

#### **DANGER**







Hazard statements . Causes skin irritation - H315

Causes serious eye damage - H318 May cause respiratory irritation - H335

May cause cancer. - H350

Causes damage to organs - Lungs through prolonged or repeated exposure - H372

#### **Precautionary statements**

Prevention • Obtain special instructions before use. - P201

Do not handle until all safety precautions have been read and understood. - P202

Do not breathe dust. - P260

Wash thoroughly after handling. - P264

Do not eat, drink or smoke when using this product. - P270

Use only outdoors or in a well-ventilated area. - P271

Wear protective gloves/protective clothing/eye protection/face protection. - P280

**Response** • IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P340

Call a PŎISON CENTER or doctor/physician if you feel unwell. - P312

If on skin: Wash with plenty of water .

Take off contaminated clothing and wash before reuse. - P362 If skin irritation occurs: Get medical advice/attention. - P332+P313 Specific treatment, see supplemental first aid information. - P321

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing. - P305+P351+P338 Immediately call a POISON CENTER or doctor/physician. - P310 IF exposed or concerned: Get medical advice/attention. - P308+P313 Get medical advice/attention if you feel unwell. - P314

Storage/Disposal • Store in a well-ventilated place. Keep container tightly closed. - P403+P233

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

international regulations. - P501

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 Corrosive - E

Label elements

**WHMIS** 





 Other Toxic Effects - D2A Corrosive - E

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	Comments
Aluminum(III) silicate (2:1)	<b>CAS</b> :1302-76-7	34% TO 41.8%	NDA	OSHA HCS 2012: STOT RE 2 (Lungs)	NDA
Aluminum calcium oxide	<b>CAS</b> :12042-68-1	10% TO 24%	NDA	OSHA HCS 2012: Eye Dam. 1; Skin Irrit. 2; STOT SE 3: Resp. Irrit	NDA
Cement, alumina, chemicals	<b>CAS</b> :65997-16-2	9% TO 10%	NDA	OSHA HCS 2012: Not Classified	NDA
Mullite	<b>CAS:</b> 1302-93-8	7.8% TO 9.1%	NDA	OSHA HCS 2012: STOT RE 2 (Lungs)	NDA
Perlite	<b>CAS</b> :93763-70-3	4% TO 6%	NDA	OSHA HCS 2012: Not Classified	NDA
Quartz	<b>CAS</b> :14808-60-7	2.22% TO 5.324%	NDA	OSHA HCS 2012: Carc. 1A; STOT RE 1 (Lungs)	NDA
Cristobalite	<b>CAS</b> :14464-46-1	1.8% TO 3.544%	NDA	OSHA HCS 2012: Carc. 1A	NDA
SS Fibers	NDA	2% TO 3%	NDA	OSHA HCS 2012: Not Classified	NDA
Titanium dioxide	<b>CAS</b> :13463-67-7	0.4% TO 2.92%	NDA	OSHA HCS 2012: Carc. 2	NDA
Silica, amorphous	<b>CAS:</b> 7631-86-9	1.2% TO 2.8%	NDA	OSHA HCS 2012: Not Classified	NDA
Kaolin	<b>CAS:</b> 1332-58-	1.3% TO 2.7%	NDA	OSHA HCS 2012: Not Classified	NDA
Amorphous/fused silica	<b>CAS</b> :60676-86-0	0% TO 1.44%	NDA	OSHA HCS 2012: Not Classified	NDA
Iron oxide	<b>CAS</b> :1309-37-	0% TO 0.96%	NDA	OSHA HCS 2012: Not Classified	NDA
1-Propene, homopolymer	<b>CAS:</b> 9003-07-	0.1484% TO 0.15%	Ingestion/Oral-Rat LD50 • >8 g/kg	OSHA HCS 2012: Not Classified	NDA
Magnesium oxide	<b>CAS:</b> 1309-48-4	0% TO 0.144%	NDA	OSHA HCS 2012: Not Classified	NDA
Sodium hydroxide	<b>CAS</b> :1310-73-	0% TO 0.12%	NDA	OSHA HCS 2012: Skin. Corr. 1B; Eye Corr. 1	NDA
Calcium oxide	<b>CAS:</b> 1305-78-8	0% TO 0.048%	NDA	OSHA HCS 2012: Exposure limit(s)	NDA

#### Section 4: First-Aid Measures

#### **Description of first aid measures**

Inhalation

 Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. 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 the

patient. Consideration should be given to the possibility that overexposure to materials other 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 Hazards** 

None known.

**Hazardous Combustion Products** 

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

#### Precautions for safe handling

#### Handling

 Do not breathe dust. 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. Wash thoroughly after handling. Do not use in areas without adequate ventilation.

## Conditions for safe storage, including any incompatibilities

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

#### **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**

			<b>Exposure Limits</b>	/Guidelines		
	Result	ACGIH	Canada Ontario	Canada Quebec	Mexico	NIOSH
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
	STELs	Not established	Not established	Not established	10 mg/m3 STEL [LMPE-CT] (as Fe)	Not established
Iron oxide (1309-37-1)	TWAs	5 mg/m3 TWA (respirable fraction)	5 mg/m3 TWA (respirable)	5 mg/m3 TWAEV (dust and fume, as Fe); 10 mg/m3 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)
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
Magnesium oxide (1309-48-4)	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
	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 TWA	10 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, total dust)	10 mg/m3 TWA LMPE-PPT (as Ti)	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
Kaolin (1332-58-7)	TWAs	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	2 mg/m3 TWA (containing no Asbestos and <1% Crystalline silica, respirable)	5 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, respirable dust)	10 mg/m3 TWA LMPE-PPT	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
			0.05 mg/m3 TWA (designated			

Cristobalite (14464-46-1)	TWAs	0.025 mg/m3 TWA (respirable fraction)	reg resp und	ostances ulation, pirable, listed ler Silica, stalline)		5 mg/m3 TWAEV spirable 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)	(de: sub reg resp und	o mg/m3 TWA signated ostances ulation, pirable, listed der Silica, stalline)		mg/m3 TWAEV spirable dust)	0.1 mg/m3 TWA LMPE-PPT (respirable fraction)	0.05 mg/m3 TWA (respirable dust)
Perlite (93763-70-3)	TWAs	Not established	(co Ast	mg/m3 TWA ntaining no pestos and <1% estalline silica)	Not	established	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		
Sodium hydroxide (1310-73-2)				TWAs		2 mg/m3 TWA		
Iron oxide (1309-37-1)		TWAs		10 mg/m3 TWA (for 15 mg/m3 TWA (to dust, listed under Rouge); 5 mg/m3 (respirable fractio listed under Rouge	otal TWA n,			
Calcium oxide (1305-78-8)		TWAs 5 n		5 mg/m3 TWA				
Magnesium oxide (1309-48-4)		111///46		15 mg/m3 TWA (fume, total particulate)				
Titanium dioxide (13463-67-7)		TWAs	TWAs 15 mg/m3 TWA (total dust)					
Kaolin (1332-58-7)				TWAs		15 mg/m3 TWA (to dust); 5 mg/m3 TV (respirable fractio	VA	

#### **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 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 Hands

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

#### Skin/Body

# General Industrial Hygiene Considerations

**Environmental Exposure** 

- Wear long sleeves and/or protective coveralls.
- Avoid breathing 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 hands before eating, drinking, or smoking. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.
- Follow best practice for site management and disposal of waste. Dispose of in an approved landfill.

## Key to abbreviations

Controls

ACGIH = American Conference of Governmental Industrial 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
Particulate Size	600 µ	Odor Threshold	No data available
General Properties			
Boiling Point	No data available	Melting Point	No data available
Decomposition Temperature	No data available	рН	Not relevant
Specific Gravity/Relative Density	2.2 to 2.9 Water=1	Water Solubility	Negligible < 0.1 %
Viscosity	No data available	Explosive Properties	No data available
Oxidizing Properties:	No data available		
Volatility			•
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Wt.)	0 %
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 not indicated.

#### Conditions to avoid

None known.

## Incompatible materials

None known.

#### **Hazardous decomposition products**

None known.

#### Section 11 - Toxicological Information

## Information on toxicological effects

Component Name	CAS	Data
Silica, amorphous (1.2% TO 2.8%)	7631-86-9	Irritation: eye-rbt 25 mg/24H MLD
Titanium dioxide (0.4% TO 2.92%)	13463-67-7	Irritation: skn-hmn 300 ug/3D-I MLD; Tumorigen/Carcinogen: ihl-rat TCLo:250 mg/m3/6H/2Y-I
Perlite (4% TO 6%)	93763-70-3	Acute Toxicity: orl-mus LD50:12960 mg/kg
Sodium hydroxide (0% TO 0.12%)	1310-73-2	Irritation: eye-rbt 50 ug/24H SEV; skn-rbt 500 mg/24H SEV
1-Propene, homopolymer (0.1484% TO 0.15%)	9003-07-0	Acute Toxicity: orl-rat LD50:>8 gm/kg
Kaolin (1.3% TO 2.7%)	1332-58-7	Multi-dose Toxicity: ihl-rat TCLo:30 mg/m3/96W-I; Reproductive: orl-rat TDLo:370 gm/kg (37D pre/1-22D preg)

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Data lacking
Aspiration Hazard	OSHA HCS 2012 • Data lacking
Carcinogenicity	OSHA HCS 2012 • Carcinogenicity 1A
Germ Cell Mutagenicity	OSHA HCS 2012 • Data lacking
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation 2
Skin sensitization	OSHA HCS 2012 • Data lacking
STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1
STOT-SE	<b>OSHA HCS 2012 •</b> Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
Toxicity for Reproduction	OSHA HCS 2012 • Data lacking
Respiratory sensitization	OSHA HCS 2012 • Data lacking
Serious eye damage/Irritation	OSHA HCS 2012 • Serious Eye Damage 1

#### **Target Organs**

• Lun

Route(s) of entry/exposure

Medical Conditions
Aggravated by Exposure
Potential Health Effects
Inhalation

Acute (Immediate)

**Chronic (Delayed)** 

- Lungs
- Inhalation, Skin, Eye, Ingestion
- Any pre-existing conditions of the lungs. Disorders of the lungs.
- May cause respiratory irritation. Exposure to dust may cause irritation.
- 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)

- Causes skin irritation. Exposure to dust may cause irritation.
- No data available.

#### Eye

Acute (Immediate)

Causes serious eye damage. 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)

**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	
Titanium dioxide	13463-67-7	Group 2B-Possible Carcinogen	Not Listed	
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

MLD = Mild TD = Toxic Dose

SEV = Severe

## 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**

Preparation Date: 01/September/2011

Revision Date: 25/February/2014

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Format: GHS Language: English (US)

WHMIS, OSHA HCS 2012

	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
Amorphous/fused silica	60676-86-0	Yes	Yes	No
Calcium oxide	1305-78-8	Yes	Yes	Yes
Citric acid	77-92-9	No	No	No
Cristobalite	14464-46-1	Yes	Yes	Yes
Kaolin	1332-58-7	Yes	Yes	Yes
Perlite	93763-70-3	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
Titanium dioxide	13463-67-7	Yes	Yes	Yes

Inventory					
Component	CAS	Canada DSL	TSCA		
Amorphous/fused silica	60676-86-0	Yes	Yes		
Calcium oxide	1305-78-8	Yes	Yes		
Citric acid	77-92-9	Yes	Yes		
Cristobalite	14464-46-1	Yes	Yes		
Kaolin	1332-58-7	Yes	Yes		
Perlite	93763-70-3	Yes	No		
Quartz	14808-60-7	Yes	Yes		
Silica, amorphous	7631-86-9	Yes	Yes		
Sodium hydroxide	1310-73-2	Yes	Yes		
Titanium dioxide	13463-67-7	Yes	Yes		

#### Canada

Labor Canada - WHMIS - Classifications of Substances

Kaolin	1332-58-7	D2A
		D2A (expanded, containing
• Perlite	93763-70-3	>0.1% Crystalline silica); Uncontrolled product according to WHMIS classification criteria
Calcium oxide	1305-78-8	(expanded) E
		E (including 0.04% in aqueous solution, 0.08%, 0.4% in aqueous solution, 2%, 2.5%,
Sodium hydroxide	1310-73-2	4% in aqueous solution, 5%, 10%, 16%, 20%, 40%, 50% in aqueous solution, 8.7N) D2A (In certain cases, this classification does not apply. For more information, consult
Titanium dioxide	13463-67-7	the section Substance Specific Issues - Titanium dioxide, mixture containing on Health Canada's WHMIS Division website.)
Titanium dioxide as Titanium compounds	77.00.0	Not Listed
Citric acid	77-92-9	E (including 40%) D2A (In certain cases, this classification does not apply. For more information, consult
Cristobalite	14464-46-1	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 Uncontrolled product
Amorphous/fused silica	60676-86-0	according to WHMIS classification criteria
		D2A (In certain cases, this classification does not apply. For more information, consult
• Quartz	14808-60-7	the section Substance Specific Issues - Silica, crystalline, encapsulated on Health Canada's WHMIS Division website.)
Canada - WHMIS - Ingredient Disclosure List		
Kaolin	1332-58-7	Not Listed
Perlite	93763-70-3	Not Listed
Calcium oxide	1305-78-8	1 %
Sodium hydroxide	1310-73-2	1 %
Titanium dioxide	13463-67-7	Not Listed
Titanium dioxide as Titanium compounds		Not Listed
Citric acid	77-92-9	1 %
Cristobalite	14464-46-1	1 %
Silica, amorphous	7631-86-9	1 %
Amorphous/fused silica	60676-86-0	1 %

• Quartz 14808-60-7 1 %

#### **United States**

Kaolin	1332-58-7	Not Listed
Perlite	93763-70-3	Not Listed
Calcium oxide	1305-78-8	Not Listed
Sodium hydroxide	1310-73-2	1000 lb final RQ; 454 kg fina
Titanium dioxide	13463-67-7	Not Listed
Titanium dioxide as Titanium compounds		Not Listed
Citric acid	77-92-9	Not Listed
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
Amorphous/fused silica	60676-86-0	Not Listed
Quartz	14808-60-7	Not Listed

#### **United States - California**

ivironment U.S California - Proposition 65 - Carcinogens List		
Kaolin	1332-58-7	Not Listed
• Perlite	93763-70-3	Not Listed
Calcium oxide	1305-78-8	Not Listed
Sodium hydroxide	1310-73-2	Not Listed
Titanium dioxide	13463-67-7	carcinogen, initial date 9/2/11 (airborne, unbound particles of respirable size)
Titanium dioxide as Titanium compounds		Not Listed
Citric acid	77-92-9	Not Listed
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
Amorphous/fused silica	60676-86-0	Not Listed
• Quartz	14808-60-7	carcinogen, initial date 10/1/88 (airborne particles of respirable size)

## **United States - Pennsylvania**

Kaolin	1332-58-7	Not Listed
erlite	93763-70-3	Not Listed
alcium oxide	1305-78-8	Not Listed
odium hydroxide	1310-73-2	
itanium dioxide	13463-67-7	Not Listed
itanium dioxide as Titanium compounds		Not Listed
Citric acid	77-92-9	Not Listed
Cristobalite	14464-46-1	Not Listed
ilica, amorphous	7631-86-9	Not Listed
morphous/fused silica	60676-86-0	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

# Last Revision Date Preparation Date Disclaimer/Statement of Liability

- 25/February/2014
- 01/September/2011
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# **Key to abbreviations** NDA = No data available