

Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • **SilentFX Putty**

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

Relevant identified use(s) • An outlet backer to achieve acoustic performance

1.3 Details of the supplier of the safety data sheet

Manufacturer • CertainTeed Gypsum Canada, Inc.
 2424 Lakeshore Road West
 Mississauga L5J 1K4
 Canada
 www.certainteed.com

1.4 Emergency telephone number

Manufacturer • 1-800-32 SPILL - Team-1 Environmental Services Inc.

Manufacturer • 1-800-327-7455 (24 hrs) - Team-1 Environmental Services Inc.

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

2.1 Classification of the substance or mixture

CLP • Carcinogenicity 1A - H350i
 Specific Target Organ Toxicity Repeated Exposure 1 - H372

2.2 Label Elements

CLP

DANGER



Hazard statements • H350i - May cause cancer by inhalation.
 H372 - Causes damage to organs through prolonged or repeated exposure.

Prevention • P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P260 - Do not breathe mist, vapours and/or spray.
 P264 - Wash thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response • P308+P313 - IF exposed or concerned: Get medical advice/attention.
 P314 - Get medical advice/attention if you feel unwell.

Storage/Disposal • P405 - Store locked up.
 P501 - Dispose of content and/or container in accordance with local, regional,

national, and/or international regulations.

2.3 Other Hazards

- CLP
- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.
-

UN GHS Revision 3

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS): Third Revised Edition

2.1 Classification of the substance or mixture

- UN GHS
- Carcinogenicity 1A
Specific Target Organ Toxicity Repeated Exposure 1

2.2 Label elements

UN GHS

DANGER



- Hazard statements**
- May cause cancer.
Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

- Prevention**
- Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe 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**
- Store locked up.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

- UN GHS
- According to the Globally Harmonized System for Classification and Labeling (GHS) this product is considered hazardous
-

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

- OSHA HCS 2012
- Carcinogenicity 1A
Specific Target Organ Toxicity Repeated Exposure 1

2.2 Label elements

OSHA HCS 2012

DANGER



- Hazard statements**
- May cause cancer.
-

Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

- Prevention** • Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe 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** • Store locked up.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 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

2.1 Classification of the substance or mixture

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

2.2 Label elements

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

2.3 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

3.1 Substances

- Material does not meet the criteria of a substance.

3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Limestone	CAS:1317-65-3 EC Number:215-279-6	60% TO 90%	NDA	EU CLP: Not Classified UN GHS Revision 3: Not Classified OSHA HCS 2012: Not Classified	NDA
Kaolin	CAS:1332-58-7 EC Number:310-194-1	< 10%	NDA	EU CLP: Eye Irrit. 2, H319; STOT RE 1, H372 UN GHS Revision 3: Eye Irrit. 2B; STOT RE 1 (Lungs) OSHA HCS 2012: Eye Irrit. 2B; STOT RE 1 (Lungs)	NDA
				EU CLP: Carc. 1A, H350i; STOT RE 1, H372 (Lungs,	

Crystalline silica	CAS:14808-60-7 EC Number:238-878-4	0% TO 5%	NDA	Inhl) UN GHS Revision 3: Carc. 1A; STOT RE 1 (Lungs, Inhl) OSHA HCS 2012: Carc. 1A; STOT RE 1 (Lungs, Inhl)	NDA
Talc	CAS:14807-96-6 EC Number:238-877-9	< 4%	NDA	EU CLP: STOT RE 1, H372 (Lungs, Inhl) UN GHS Revision 3: STOT RE 1 (Lungs, Inhl) OSHA HCS 2012: STOT RE 1 (Lungs, Inhl)	NDA

See Section 16 for full text of H-statements.

Section 4 - First Aid Measures

4.1 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. If signs/symptoms continue, get medical attention.

Skin

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

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. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Obtain medical attention immediately if ingested.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 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 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media • In case of fire use media as appropriate for surrounding fire.

Unsuitable Extinguishing Media • No data available

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • This product is non-flammable and will not support combustion.

Hazardous Combustion Products • Under fire conditions product may decompose into sulfur oxides, calcium oxide and carbon dioxide at very high temperatures (>800°C / 1475°F).

5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Do not walk through spilled material. Wear appropriate protective equipment.

Emergency Procedures • Keep unauthorized personnel away.

6.2 Environmental precautions

- Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Stop leak if you can do it without risk.
SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.
LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Use good safety and industrial hygiene practices. Wear appropriate protective equipment. Do not breathe mist, vapors, or spray. Do not eat, drink or smoke when using this product. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Store in dry conditions and protected from weather. Protect from moisture and humidity.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	China	Denmark	Finland	France
Crystalline silica (14808-60-7)	STELs	Not established	2 mg/m3 STEL (containing 10-50% free SiO2, total dust); 1.4 mg/m3 STEL (containing 50-80% free SiO2, total dust); 1 mg/m3 STEL (containing >80% free SiO2, total dust); 1.4 mg/m3 STEL (containing 10-50% free SiO2, respirable dust); 0.6 mg/m3 STEL (containing 50-80% free SiO2, respirable dust); 0.4 mg/m3 STEL (containing >80% free SiO2, respirable dust)	Not established	Not established	Not established
			0.7 mg/m3 TWA (containing 50-80% free SiO2, total dust);			

	TWAs	0.025 mg/m3 TWA (respirable fraction)	0.3 mg/m3 TWA (containing 50-80% free SiO2, respirable dust); 1 mg/m3 TWA (containing 10-50% free SiO2, total dust); 0.7 mg/m3 TWA (containing 10-50% free SiO2, respirable dust); 0.5 mg/m3 TWA (containing >80% free SiO2, total dust); 0.2 mg/m3 TWA (containing >80% free SiO2, respirable dust)	0.3 mg/m3 TWA (total); 0.1 mg/m3 TWA (respirable)	0.05 mg/m3 TWA (respirable, listed under Silicon dioxide, crystalline)	0.1 mg/m3 TWA [VME] (restrictive limit, alveolar fraction)
Talc (14807-96-6)	STELs	Not established	6 mg/m3 STEL (free SiO2 <10%, total dust); 2 mg/m3 STEL (free SiO2 <10%, respirable dust)	Not established	Not established	Not established
	TWAs	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	3 mg/m3 TWA (free SiO2 <10%, total dust); 1 mg/m3 TWA (free SiO2 <10%, respirable dust)	0.3 fiber/cm3 TWA (containing fibers)	0.5 fiber/cm3 TWA (fiber)	Not established
Kaolin (1332-58-7)	TWAs	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	Not established	2 mg/m3 TWA (respirable)	2 mg/m3 TWA (respirable)	10 mg/m3 TWA [VME]
Limestone (1317-65-3)	STELs	Not established	16 mg/m3 STEL (total dust); 8 mg/m3 STEL (respirable dust)	Not established	Not established	Not established
	TWAs	Not established	8 mg/m3 TWA (total dust); 4 mg/m3 TWA (respirable dust)	Not established	Not established	Not established

Exposure Limits/Guidelines (Con't.)

	Result	Greece	Hungary	Ireland	Netherlands	NIOSH
Crystalline silica (14808-60-7)	TWAs	Not established	0.15 mg/m3 TWA [AK] (respirable)	0.1 mg/m3 TWA (respirable dust)	0.075 mg/m3 TWA (respirable dust, listed under Silicon dioxide)	0.05 mg/m3 TWA (respirable dust)
	STELs	Not established	Not established	0.3 mg/m3 STEL (calculated, respirable dust, as regulated under Silica, crystalline)	Not established	Not established
Talc (14807-96-6)	TWAs	10 mg/m3 TWA (inhalable fraction); 2 mg/m3 TWA (respirable fraction)	2 mg/m3 TWA [AK] (respirable)	10 mg/m3 TWA (total inhalable dust); 0.8 mg/m3 TWA (respirable dust)	0.25 mg/m3 TWA	2 mg/m3 TWA (containing no Asbestos and <1% Quartz, respirable dust)
				30 mg/m3 STEL		

	STELs	Not established	Not established	(calculated, total inhalable dust); 2.4 mg/m3 STEL (calculated, respirable dust)	Not established	Not established
Kaolin (1332-58-7)	TWAs	Not established	Not established	2 mg/m3 TWA (respirable dust)	Not established	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
Limestone (1317-65-3)	TWAs	10 mg/m3 TWA (inhalable fraction); 5 mg/m3 TWA (respirable fraction)	10 mg/m3 TWA [AK]	10 mg/m3 TWA (total inhalable dust); 4 mg/m3 TWA (respirable dust)	Not established	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
	STELs	Not established	Not established	30 mg/m3 STEL (calculated, total inhalable dust); 12 mg/m3 STEL (calculated, respirable dust)	Not established	Not established

Exposure Limits/Guidelines (Con't.)

	Result	OSHA	Poland	Portugal	Spain	Sweden
Crystalline silica (14808-60-7)	TWAs	Not established	2 mg/m3 TWA [NDS] (>50% free crystalline silica, inhalable fraction); 0.3 mg/m3 TWA [NDS] (>50% free crystalline silica, respirable fraction); 4.0 mg/m3 TWA [NDS] (2% to 50% free crystalline silica, inhalable fraction); 1.0 mg/m3 TWA [NDS] (2% to 50% free crystalline silica, respirable fraction)	0.025 mg/m3 TWA [VLE-MP] (respirable fraction)	0.05 mg/m3 TWA [VLA-ED] (reclassified IARC group 2A to group 1, respirable fraction)	0.1 mg/m3 LLV (respirable dust)
Talc (14807-96-6)	TWAs	Not established	4.0 mg/m3 TWA [NDS] (inhalable fraction); 1.0 mg/m3 TWA [NDS] (respirable fraction)	2 mg/m3 TWA [VLE-MP] (respirable fraction, particulate matter containing no Asbestos and <1% Crystalline silica)	2 mg/m3 TWA [VLA-ED] (containing no Asbestos fibers; this value is for the particulate matter that is free from Asbestos and contains less than 1% of Crystalline silica; see UNE EN 481:1995 Workplace atmospheres. Definition of the fractions by particle size for aerosol measurement, respirable fraction)	2 mg/m3 LLV (total dust); 1 mg/m3 LLV (respirable dust)
Kaolin (1332-58-7)	TWAs	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	10.0 mg/m3 TWA [NDS] (<2% free crystalline silica and containing no asbestos, inhalable	2 mg/m3 TWA [VLE-MP] (respirable fraction, particulate matter containing no Asbestos and <1%	2 mg/m3 TWA [VLA-ED] (this value is for the particulate matter that is free from Asbestos and contains <1% of	Not established

			fraction)	Crystalline silica)	Crystalline silica, respirable fraction)	
Limestone (1317-65-3)	TWAs	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	Not established	Not established	Not established	Not established

Exposure Control Notations

Portugal

- Kaolin (1332-58-7): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
- Talc (14807-96-6): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
- Crystalline silica (14808-60-7): **Carcinogens:** (A2 - Suspected Human Carcinogen)

Sweden

- Crystalline silica (14808-60-7): **Carcinogens:** (Carcinogen)

ACGIH

- Kaolin (1332-58-7): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
- Talc (14807-96-6): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen (containing no asbestos fibers))
- Crystalline silica (14808-60-7): **Carcinogens:** (A2 - Suspected Human Carcinogen)

Germany DFG

- Kaolin (1332-58-7): **Carcinogens:** (Category 3B (could be carcinogenic for man))
- Talc (14807-96-6): **Carcinogens:** (Category 3B (could be carcinogenic for man, free of asbestos fibers))
- Crystalline silica (14808-60-7): **Carcinogens:** (Category 1 (causes cancer in man, alveola fraction))

Exposure Limits Supplemental

OSHA

- Talc (14807-96-6): **Mineral Dusts:** (20 mppcf TWA (if 1% Quartz or more, use Quartz limit))
- Crystalline silica (14808-60-7): **Mineral Dusts:** ((30)/(%SiO2 + 2) mg/m3 TWA, total dust; (250)/(%SiO2 + 5) mppcf TWA, respirable fraction; (10)/(%SiO2 + 2) mg/m3 TWA, respirable fraction)

ACGIH

- Kaolin (1332-58-7): **TLV Basis - Critical Effects:** (pneumoconiosis)
- Talc (14807-96-6): **TLV Basis - Critical Effects:** (pulmonary fibrosis (containing no asbestos fibers); pulmonary function (containing no asbestos fibers))
- Crystalline silica (14808-60-7): **TLV Basis - Critical Effects:** (lung cancer; pulmonary fibrosis)

8.2 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

- In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

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

Skin/Body

- Wear appropriate gloves.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

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

LLV = Limit Level Value is the exposure limit for 8-hour work day

TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)

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

Section 9 - Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	White to light grey, odorless, water-based paste.
Color	White to light grey.	Odor	Odorless
Odor Threshold	Data lacking		
General Properties			
Boiling Point	100 °C(212 °F)	Melting Point/Freezing Point	< 0 °C(< 32 °F)
Decomposition Temperature	825 °C(1517 °F) Limestone	pH	7 to 8.5
Specific Gravity/Relative Density	0.8 to 1.7 Water=1	Water Solubility	Data lacking
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	Data lacking	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Avoid unintended contact with water/moisture.

10.5 Incompatible materials

- Strong acids - Incompatible with strong acids (HF); may react vigorously. Reaction with acids generates carbon dioxide gas.

10.6 Hazardous decomposition products

- Calcium oxide may form if product is exposed to extreme heat 825°C (1517°F).

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
Limestone (60% TO 90%)	1317-65-3	Multi-dose Toxicity: Inhalation-Rat TCLO • 84 mg/m ³ 4 Hour(s) 40 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis (interstitial); Liver:Other changes; Kidney, Ureter, and Bladder:Other changes;</i> Inhalation-Rat TCLO • 250 mg/m ³ 2 Hour(s) 24 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis)</i>
Kaolin (< 10%)	1332-58-7	Multi-dose Toxicity: Inhalation-Rat TCLO • 30 mg/m ³ 96 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis (interstitial); Lungs, Thorax, or Respiration:Other changes; Lungs, Thorax, or Respiration:Tumors;</i> Inhalation-Rat TCLO • 30 mg/m ³ 96 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Other changes; Lungs, Thorax, or Respiration:Tumors;</i> Inhalation-Rat TCLO • 30 mg/m ³ 48 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis (interstitial);</i> Reproductive: Ingestion/Oral-Rat TDLo • 590 g/kg (37D pre/1-22D preg); <i>Reproductive Effects:Effects on Newborn:Growth statistics (e.g., reduced weight gain);</i> Ingestion/Oral-Rat TDLo • 370 g/kg (37D pre/1-22D preg); <i>Reproductive Effects:Maternal Effects:Other effects; Reproductive Effects:Effects on Newborn:Other neonatal measures or effects.</i>
Talc (< 4%)	14807-96-6	Irritation: Skin-Human • 300 µg 3 Day(s)-Intermittent • Mild irritation; Tumorigen / Carcinogen: Inhalation-Rat • 11 mg/m ³ 1 Year(s)-Intermittent; <i>Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Lungs, Thorax, or Respiration:Tumors;</i> Inhalation-Rat TCLO • 18 mg/m ³ 6 Hour(s) 2 Year(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration:Bronchiogenic carcinoma; Endocrine:Tumors</i>
Crystalline silica (0% TO 5%)	14808-60-7	Acute Toxicity: Inhalation-Human TCLO • 16 mppcf 8 Hour(s) 17.9 Year(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Cough; Lungs, Thorax, or Respiration:Dyspnea;</i> Inhalation-Rat TCLO • 200 mg/kg; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Other changes; Nutritional and Gross Metabolic:Changes in Chemistry or Temperature:Fe;</i> Multi-dose Toxicity: Inhalation-Hamster TCLO • 3 mg/m ³ 6 Hour(s) 78 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis (interstitial); Lungs, Thorax, or Respiration:Changes in lung weight;</i> Inhalation-Rat TCLO • 6.2 mg/m ³ 6 Hour(s) 6 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Other changes; Blood:Changes in spleen; Immunological Including Allergic:Increase in cellular immune response;</i> Inhalation-Rat TCLO • 80 mg/m ³ 26 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Blood:Changes in spleen; Immunological Including Allergic:Decrease in cellular immune response;</i> Mutagen: Micronucleus test • Unreported Route-Hamster • Lung (Somatic cell) • 160 µg/cm ³ ; DNA damage • Unreported Route-Human • Other Cell Type • 120 mg/L 24 Hour(s); Micronucleus test • Unreported Route-Human • Lung (Somatic cell) • 40 µg/cm ³ ; Tumorigen / Carcinogen: Inhalation-Rat TCLO • 50 mg/m ³ 6 Hour(s) 71 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Liver:Tumors</i>

GHS Properties	Classification
Acute toxicity	EU/CLP • Data lacking UN GHS 3 • Data lacking OSHA HCS 2012 • Data lacking
Skin corrosion/Irritation	EU/CLP • Data lacking UN GHS 3 • Data lacking OSHA HCS 2012 • Data lacking
Serious eye damage/Irritation	EU/CLP • Data lacking UN GHS 3 • Data lacking OSHA HCS 2012 • Data lacking
Skin sensitization	EU/CLP • Data lacking UN GHS 3 • Data lacking OSHA HCS 2012 • Data lacking
Respiratory sensitization	EU/CLP • Data lacking UN GHS 3 • Data lacking OSHA HCS 2012 • Data lacking

Aspiration Hazard	EU/CLP • Data lacking UN GHS 3 • Data lacking OSHA HCS 2012 • Data lacking
Carcinogenicity	EU/CLP • Carcinogenicity 1A; May cause cancer by inhalation UN GHS 3 • Carcinogenicity 1A OSHA HCS 2012 • Carcinogenicity 1A
Germ Cell Mutagenicity	EU/CLP • Data lacking UN GHS 3 • Data lacking OSHA HCS 2012 • Data lacking
Toxicity for Reproduction	EU/CLP • Data lacking UN GHS 3 • Data lacking OSHA HCS 2012 • Data lacking
STOT-SE	EU/CLP • Data lacking UN GHS 3 • Data lacking OSHA HCS 2012 • Data lacking
STOT-RE	EU/CLP • Specific Target Organ Toxicity Repeated Exposure 1 UN GHS 3 • Specific Target Organ Toxicity Repeated Exposure 1 OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1

Potential Health Effects

Inhalation

Acute (Immediate)

- Exposures to airborne dust may cause irritation to the upper respiratory tract; symptoms of exposure may include sneezing, coughing and sore throat.

Chronic (Delayed)

- Prolonged and repeated breathing of high concentrations of dusts may cause pulmonary fibrosis and silicosis. Silicosis can develop following years of repeated inhalation of airborne dust containing respirable crystalline silica. Silicosis is characterized by lung lesions. Symptoms of silicosis include shortness of breath and cough, decreased lung function and weakness.

Skin

Acute (Immediate)

- May cause skin dryness and abrasive irritation in contact with the skin.

Chronic (Delayed)

- No data available

Eye

Acute (Immediate)

- Particulates in the eye may cause irritation by mechanical action.

Chronic (Delayed)

- No data available

Ingestion

Acute (Immediate)

- May cause gastrointestinal discomfort.

Chronic (Delayed)

- No data available

Carcinogenic Effects

- This product contains crystalline silica. IARC Monographs on Evaluation of Carcinogenic Risk of Chemicals to Humans (Monograph 68, 1997) concludes that there is sufficient evidence for the carcinogenicity of crystalline silica to humans, IARC (Group I). Crystalline Silica is classified as a Known Carcinogen according to the NTP.

Carcinogenic Effects			
	CAS	IARC	NTP
Crystalline silica	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen

Key to abbreviations

TC = Toxic Concentration

TD = Toxic Dose

Section 12 - Ecological Information

12.1 Toxicity

- Material data lacking.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations

13.1 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

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
TDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IMO/IMDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IATA/ICAO	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA

14.6 Special precautions for user

- None specified.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

- Data lacking.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications

- Chronic

State Right To Know		
Component	CAS	PA
Crystalline silica	14808-60-7	Yes
Kaolin	1332-58-7	Yes
Limestone	1317-65-3	Yes
Talc	14807-96-6	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Crystalline silica	14808-60-7	Yes	No	Yes	Yes	No
Kaolin	1332-58-7	Yes	No	Yes	Yes	No
Limestone	1317-65-3	No	Yes	Yes	Yes	No
Talc	14807-96-6	Yes	No	Yes	Yes	No

Inventory (Con't.)			
Component	CAS	Korea KECL	TSCA
Crystalline silica	14808-60-7	Yes	Yes
Kaolin	1332-58-7	Yes	Yes
Limestone	1317-65-3	Yes	Yes
Talc	14807-96-6	Yes	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Kaolin	1332-58-7	D2A
• Talc	14807-96-6	D2A
• Limestone	1317-65-3	D2A
• Crystalline silica	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

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	1 %

Environment

Canada - CEPA - Priority Substances List

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

China

Environment

China - Ozone Depleting Substances - First Schedule

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

China - Ozone Depleting Substances - Second Schedule

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

China - Ozone Depleting Substances - Third Schedule

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

Other

China - Annex I & II - Controlled Chemicals Lists

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

China - Dangerous Goods List

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

Germany

Labor

Germany - Immission Control - Qualifying Quantities for Major Accident Prevention

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

Germany - Immission Control - Qualifying Quantities for Safety Reporting

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

Germany - TRGS 505 - Specific Lead Regulations

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

Germany - TRGS 511 - Specific Ammonium Nitrate Regulations

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed

• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

Environment

Germany - TA Luft - Types and Classes

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

Germany - TA Luft - Emission Limits for Carcinogenic Substances

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

Germany - TA Luft - Emission Limits for Fibers

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Dusts

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Gases

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

Germany - TA Luft - Emission Limits for Organic Substances

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

Germany - Water Classification (VwVwS) - Annex 1

• Kaolin	1332-58-7	765, not considered hazardous to water
• Talc	14807-96-6	1315, not considered hazardous to water
• Limestone	1317-65-3	317, not considered hazardous to water
• Crystalline silica	14808-60-7	849, not considered hazardous to water

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

Germany - Water Classification (VwVwS) - Annex 3

• Kaolin	1332-58-7	ID Number 5443, not considered hazardous to water (slurry, composition as communicated)
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	ID Number 849, not considered hazardous to water

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

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

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

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

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

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

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

United States - California

Environment

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

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	carcinogen, 10/1/1988 (airborne particles of respirable size)

U.S. - California - Proposition 65 - Developmental Toxicity

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

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

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

United States - Pennsylvania

Labor

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

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

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

• Kaolin	1332-58-7	Not Listed
• Talc	14807-96-6	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

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

Section 16 - Other Information

Relevant Phrases (code & full text)

- H319 - Causes serious eye irritation

Revision Date

- 23/June/2016

Preparation Date

- 23/June/2016

Disclaimer/Statement of Liability

- The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Key to abbreviations

NDA = No Data Available