

**Safety Data Sheet****Section 1: Identification****Product identifier****Product Name**

- **Mineral Board Formula G2**

**Synonyms**

- Avalon Fire-rated; Protectone Baroque; Protectone Baroque Customline; Protectone Cashmere; Protectone Directional Fissured; Protectone Fine Fissured; Protectone Fine Fissured Customline; Protectone School Board; Protectone Sky; Protectone Vantage 10

**Relevant identified uses of the substance or mixture and uses advised against****Recommended use**

- Consult manufacturer for the recommended product use

**Details of the supplier of the safety data sheet****Manufacturer**

- CertainTeed Ceilings  
20 Moores Road  
Malvern, PA 19355

Telephone (General) • 800-782-8777

**Emergency telephone number**

Manufacturer • 800-782-8777

**Section 2: Hazard Identification****United States (US)**

According to: OSHA 29 CFR 1910.1200 HCS

**Classification of the substance or mixture****OSHA HCS 2012**

- Eye Mild Irritation 2B  
Germ Cell Mutagenicity 2  
Carcinogenicity 1A  
Specific Target Organ Toxicity Repeated Exposure 1

**Label elements****OSHA HCS 2012****DANGER**

- Hazard statements** • Causes eye irritation  
Suspected of causing genetic defects.  
May cause cancer.  
Causes damage to organs through prolonged or repeated exposure.

**Precautionary statements**

- Prevention** • Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dust.  
Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.  
Wear protective gloves/protective clothing/eye protection/face protection.

- Response** • IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
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.

## Other hazards

### OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## Canada

According to: WHMIS

## Classification of the substance or mixture

### WHMIS

- Other Toxic Effects - D2A  
Other Toxic Effects - D2B

## Label elements

### WHMIS



- Other Toxic Effects - D2A  
Other Toxic Effects - D2B

## Other hazards

### WHMIS

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

## Section 3 - Composition/Information on Ingredients

### Substances

- Material does not meet the criteria of a substance.

### Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Glass, oxide, chemicals	CAS:65997-17-3 EC Number:266-046-0	23.75% TO 50%	NDA	OSHA HCS 2012: Not Classified	NDA
Perlite	CAS:93763-70-3	10% TO 25%	NDA	OSHA HCS 2012: Not Classified	NDA
Kaolin	CAS:1332-58-7	< 10%	NDA	OSHA HCS 2012: Eye Irrit. 2B; STOT RE 1 (Lungs)	NDA
	CAS:65996-61-				

Cellulose	4 EC Number:265-995-8	0.8% TO 9.5%	NDA	OSHA HCS 2012: Comb. Dust	NDA
Limestone	CAS:1317-65-3 EC Number:215-279-6	< 5%	NDA	OSHA HCS 2012: Not Classified	NDA
Titanium dioxide	CAS:13463-67-7 EC Number:236-675-5	< 4%	NDA	OSHA HCS 2012: Muta. 2; Carc. 2; STOT RE 2 (Lungs)	NDA
Mineral oil, petroleum distillates, solvent -dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	CAS:64742-65-0 EC Number:265-169-7 EU Index:649-474-00-6	< 2.5%	Ingestion/Oral-Rat LD50 • >5000 mg/kg Skin-Rabbit LD50 • >5000 mg/kg	OSHA HCS 2012: Not Classified	NDA
Talc	CAS:14807-96-6 EC Number:238-877-9	< 1%	NDA	OSHA HCS 2012: STOT RE 1 (Lungs, Inhl)	NDA
Polyvinyl alcohol	CAS:9002-89-5	< 1%	Ingestion/Oral-Rat LD50 • >20 g/kg	OSHA HCS 2012: Comb. Dust	NDA
Quartz	CAS:14808-60-7 EC Number:238-878-4	< 0.155%	NDA	OSHA HCS 2012: Carc. 1A; STOT RE 1 (Lungs, Inhl)	NDA
Carbonic acid calcium salt (1:1)	CAS:471-34-1 EC Number:207-439-9	< 0.1%	Ingestion/Oral-Rat LD50 • 6450 mg/kg	OSHA HCS 2012: Exposure limits	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. 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.

#### 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.

### 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** • LARGE FIRE: Water spray, fog or regular foam.  
SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

**Unsuitable Extinguishing Media** • No data available

### Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards** • May smolder - extinguish completely.

**Hazardous Combustion Products** • No data available

### Advice for firefighters

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

## Section 6 - Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** • Ventilate enclosed areas. Do not walk through spilled material. Use appropriate Personal Protective Equipment (PPE)

**Emergency Procedures** • As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. Keep unauthorized personnel away.

### Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

**Containment/Clean-up Measures** • Avoid generating dust.  
Broken or damaged tiles should be picked up and placed in a container. Dust generated from making modifications of tile should be cleaned by wet wiping or filtered vacuuming.

## Section 7 - Handling and Storage

### Precautions for safe handling

**Handling** • Use only in well ventilated areas. Avoid high humidity climates for long periods of time. Product damage can occur but will not result in any health or safety concerns. Minimize dust generation and accumulation. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe dust. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

### Conditions for safe storage, including any incompatibilities

**Storage** • Keep container closed. Store in a cool, dry, well ventilated area. Store in low humidity.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

#### Exposure Limits/Guidelines

Result	ACGIH	NIOSH	OSHA

Carbonic acid calcium salt (1:1) (471-34-1)	TWAs	Not established	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)	Not established
Quartz (14808-60-7)	TWAs	0.025 mg/m3 TWA (respirable fraction)	0.05 mg/m3 TWA (respirable dust)	Not established
Talc (14807-96-6)	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% Quartz, respirable dust)	Not established
Titanium dioxide (13463-67-7)	TWAs	10 mg/m3 TWA	Not established	15 mg/m3 TWA (total dust)
Limestone (1317-65-3)	TWAs	Not established	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Kaolin (1332-58-7)	TWAs	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Perlite (93763-70-3)	TWAs	Not established	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)	Not established
Glass, oxide, chemicals	TWAs	1 fiber/cm3 TWA (respirable fibers: length >5 µm, aspect ratio >=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination, listed under Synthetic vitreous fibers)  <i>as Glass wool fiber</i>	3 fiber/cm3 TWA (fibers <= 3.5 µm in diameter and >= 10 µm in length); 5 mg/m3 TWA (total)  <i>as Glass wool fiber</i>	Not established

## Exposure Control Notations

### ACGIH

- Glass, oxide, chemicals as Glass wool fiber: **Carcinogens:** (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans (listed under Synthetic vitreous fibers))
- Kaolin (1332-58-7): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
- Quartz (14808-60-7): **Carcinogens:** (A2 - Suspected Human Carcinogen)
- Talc (14807-96-6): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen (containing no asbestos fibers))
- Titanium dioxide (13463-67-7): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

## Exposure Limits Supplemental

### OSHA

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

### ACGIH

- Kaolin (1332-58-7): **TLV Basis - Critical Effects:** (pneumoconiosis)
- Quartz (14808-60-7): **TLV Basis - Critical Effects:** (lung cancer; pulmonary fibrosis)
- Talc (14807-96-6): **TLV Basis - Critical Effects:** (pulmonary fibrosis (containing no asbestos fibers); pulmonary function (containing no asbestos fibers))
- Titanium dioxide (13463-67-7): **TLV Basis - Critical Effects:** (lower respiratory tract irritation)

## Exposure controls

### Engineering Measures/Controls

- It is recommended that dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. 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).

**Personal Protective Equipment****Respiratory**

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

**Eye/Face**

- Wear safety goggles.

**Skin/Body**

- Wear appropriate gloves. Wear long sleeves and/or protective coveralls.

**Environmental Exposure Controls**

- Follow best practice for site management and disposal of waste.

**Key to abbreviations**

ACGIH = American Conference of Governmental Industrial Hygiene

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****Information on Physical and Chemical Properties**

<b>Material Description</b>			
Physical Form	Solid	Appearance/Description	White/colored fibrous acoustical ceiling panel face, beige-grey core.
Color	White/colored panel. Beige-grey core.	Odor	No data available
Odor Threshold	No data available		
<b>General Properties</b>			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	No data available
Specific Gravity/Relative Density	2 to 2.5 Water=1	Water Solubility	Negligible < 0.1 %
Viscosity	No data available		
<b>Volatility</b>			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	Volatiles (Wt.)	< 0.1 %
Volatiles (Vol.)	< 0.1 %		
<b>Flammability</b>			
Flash Point	No data available	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
<b>Environmental</b>			
Octanol/Water Partition coefficient	No data available		

**Section 10: Stability and Reactivity****Reactivity**

- No dangerous reaction known under conditions of normal use.

**Chemical stability**

- Stable under normal temperatures and pressures.

## Possibility of hazardous reactions

- Hazardous polymerization will not occur.

## Conditions to avoid

- Avoid creating dusts.

## Incompatible materials

- None known.

## Hazardous decomposition products

- None known.

## Section 11 - Toxicological Information

### Information on toxicological effects

Components		
Perlite (10% TO 25%)	93763 -70-3	<b>Acute Toxicity:</b> Ingestion/Oral-Mouse LD50 • 12960 mg/kg
Glass, oxide, chemicals (23.75% TO 50%)	65997 -17-3	<b>Tumorigen / Carcinogen:</b> Inhalation-Rat TCLO • 5 mg/m <sup>3</sup> 7 Hour(s) 90 Week(s)-Intermittent; <b>Tumorigenic:Carcinogenic by RTECS criteria; Blood:Leukemia</b>
Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment) (< 2.5%)	64742 -65-0	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • >5000 mg/kg; Skin-Rabbit LD50 • >5000 mg/kg; <b>Tumorigen / Carcinogen:</b> Skin-Mouse • 389 g/kg 78 Week(s)-Intermittent; <b>Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Skin and Appendages:Other:Tumors; Tumorigenic:Tumors at site of application</b>
Kaolin (< 10%)	1332- 58-7	<b>Multi-dose Toxicity:</b> Inhalation-Rat TCLO • 30 mg/m <sup>3</sup> 48 Week(s)-Intermittent; <b>Lungs, Thorax, or Respiration:Fibrosis (interstitial);</b> Inhalation-Rat TCLO • 30 mg/m <sup>3</sup> 72 Week(s)-Intermittent; <b>Lungs, Thorax, or Respiration:Tumors;</b> Inhalation-Rat TCLO • 30 mg/m <sup>3</sup> 96 Week(s)-Intermittent; <b>Lungs, Thorax, or Respiration:Other changes; Lungs, Thorax, or Respiration:Tumors;</b> <b>Reproductive:</b> Ingestion/Oral-Rat TDLo • 590 g/kg (37D pre/1-22D preg); <b>Reproductive Effects:Effects on Newborn:Growth statistics (e.g., reduced weight gain);</b> Ingestion/Oral-Rat TDLo • 370 g/kg (37D pre/1-22D preg); <b>Reproductive Effects:Maternal Effects:Other effects; Reproductive Effects:Effects on Newborn:Other neonatal measures or effects.</b>
Limestone (< 5%)	1317- 65-3	<b>Multi-dose Toxicity:</b> Inhalation-Rat TCLO • 84 mg/m <sup>3</sup> 4 Hour(s) 40 Week(s)-Intermittent; <b>Lungs, Thorax, or Respiration:Fibrosis (interstitial); Liver:Other changes; Kidney, Ureter, and Bladder:Other changes;</b> Inhalation-Rat TCLO • 250 mg/m <sup>3</sup> 2 Hour(s) 24 Week(s)-Intermittent; <b>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis)</b>
Quartz (< 0.155%)	14808 -60-7	<b>Acute Toxicity:</b> Inhalation-Human TCLO • 16 mppcf 8 Hour(s) 17.9 Year(s)-Intermittent; <b>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Cough; Lungs, Thorax, or Respiration:Dyspnea;</b> Inhalation-Rat TCLO • 200 mg/kg; <b>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Other changes; Nutritional and Gross Metabolic:Changes in Chemistry or Temperature:Fe;</b> <b>Multi-dose Toxicity:</b> Inhalation-Hamster TCLO • 3 mg/m <sup>3</sup> 6 Hour(s) 78 Week(s)-Intermittent; <b>Lungs, Thorax, or Respiration:Fibrosis (interstitial); Lungs, Thorax, or Respiration:Changes in lung weight;</b> Inhalation-Rat TCLO • 6.2 mg/m <sup>3</sup> 6 Hour(s) 6 Week(s)-Intermittent; <b>Lungs, Thorax, or Respiration:Other changes; Blood:Changes in spleen; Immunological Including Allergic:Increase in cellular immune response;</b> Inhalation-Rat TCLO • 80 mg/m <sup>3</sup> 26 Week(s)-Intermittent; <b>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Blood:Changes in spleen; Immunological Including Allergic:Decrease in cellular immune response;</b> <b>Mutagen:</b> Micronucleus test • Unreported Route-Hamster • Lung (Somatic cell) • 160 µg/cm <sup>3</sup> ; 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 <sup>3</sup> ; <b>Tumorigen / Carcinogen:</b> Inhalation-Rat TCLO • 50 mg/m <sup>3</sup> 6 Hour(s) 71 Week(s)-Intermittent; <b>Tumorigenic:Carcinogenic by RTECS criteria; Liver:Tumors</b>
		<b>Irritation:</b> Skin-Human • 300 µg 3 Day(s)-Intermittent • Mild irritation;

Talc (< 1%)	14807-96-6	<b>Tumorigen / Carcinogen:</b> Inhalation-Rat TCLo • 18 mg/m <sup>3</sup> 6 Hour(s) 2 Year(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration:Bronchiogenic carcinoma; Endocrine:Tumors</i>
Polyvinyl alcohol (< 1%)	9002-89-5	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • >20 g/kg; <i>Behavioral:Altered sleep time (including change in righting reflex); Behavioral:Somnolence (general depressed activity); Behavioral:Muscle weakness;</i> <b>Multi-dose Toxicity:</b> Ingestion/Oral-Rat TDLo • 5500 mg/kg 11 Day(s)-Intermittent; <i>Peripheral Nerve and Sensation:Recording from peripheral motor nerve;</i> <b>Mutagen:</b> Dominant lethal test • Ingestion/Oral-Rat • 14700 mg/kg; <b>Reproductive:</b> Ingestion/Oral-Rat TDLo • 14700 mg/kg (35W pre); <i>Reproductive Effects:Effects on Fertility:Pre-implantation mortality</i>
Titanium dioxide (< 4%)	13463-67-7	<b>Irritation:</b> Skin-Human • 300 µg 3 Day(s)-Intermittent • Mild irritation; <b>Multi-dose Toxicity:</b> Inhalation-Rat TCLo • 250 mg/m <sup>3</sup> 6 Hour(s) 4 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Chronic pulmonary edema; Lungs, Thorax, or Respiration:Other changes;</i> Inhalation-Rat TCLo • 10 mg/m <sup>3</sup> 6 Hour(s) 13 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis (interstitial); Lungs, Thorax, or Respiration:Other changes; Biochemical:Metabolism (intermediary):Effect on inflammation or mediation of inflammation;</i> <b>Mutagen:</b> Micronucleus test • Ingestion/Oral-Mouse • 280 mg/kg 7 Day(s)-Intermittent; DNA damage • Ingestion/Oral-Mouse • 280 mg/kg 7 Day(s)-Intermittent; Cytogenetic analysis • Ingestion/Oral-Mouse • 280 mg/kg 7 Day(s)-Intermittent

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • No data available
Skin corrosion/Irritation	OSHA HCS 2012 • No data available
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Mild Irritation 2B
Skin sensitization	OSHA HCS 2012 • No data available
Respiratory sensitization	OSHA HCS 2012 • No data available
Aspiration Hazard	OSHA HCS 2012 • No data available
Carcinogenicity	OSHA HCS 2012 • Carcinogenicity 1A
Germ Cell Mutagenicity	OSHA HCS 2012 • Germ Cell Mutagenicity 2
Toxicity for Reproduction	OSHA HCS 2012 • No data available
STOT-SE	OSHA HCS 2012 • No data available
STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1

## Potential Health Effects

### Inhalation

#### Acute (Immediate)

- Exposure to dust may cause irritation. Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.

#### Chronic (Delayed)

- Prolonged exposures to high levels of respirable dust may cause a loss or reduction of pulmonary functions. Registry of Toxic Effects of Chemical Substances (RTECS) concludes that repeated or prolonged inhalation of glass, oxide, chemicals may cause leukemia.

### Skin

#### Acute (Immediate)

- Exposure to dust may cause mechanical irritation.

#### Chronic (Delayed)

- No data available

### Eye

#### Acute (Immediate)

- Causes eye irritation. Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.

#### Chronic (Delayed)

- No data available



**Ingestion****Acute (Immediate)**

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

**Chronic (Delayed)**

- No data available

**Mutagenic Effects**

- Repeated and prolonged exposure may cause mutagenic effects.

**Carcinogenic Effects**

- This product contains crystalline silica as cristobalite and/or quartz. 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 NTP.

<b>Carcinogenic Effects</b>			
	<b>CAS</b>	<b>IARC</b>	<b>NTP</b>
Quartz	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen
Glass, oxide, chemicals as Glass wool fiber	NDA	Not Listed	Reasonably Anticipated to be Human Carcinogen
Titanium dioxide	13463-67-7	Group 2B-Possible Carcinogen	Not Listed

**Key to abbreviations**

LD = Lethal Dose

TC = Toxic Concentration

TD = Toxic Dose

**Section 12 - Ecological Information****Toxicity**

- Material data lacking.

**Persistence and degradability**

- Material data lacking.

**Bioaccumulative potential**

- Material data lacking.

**Mobility in Soil**

- Material data lacking.

**Other adverse effects**

- No known significant effects or critical hazards.

**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
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DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	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

Inventory				
Component	CAS	Canada DSL	Canada NDSL	TSCA
Carbonic acid calcium salt (1:1)	471-34-1	Yes	No	Yes
Cellulose	65996-61-4	Yes	No	Yes
Glass, oxide, chemicals	65997-17-3	Yes	No	Yes
Kaolin	1332-58-7	Yes	No	Yes
Limestone	1317-65-3	No	Yes	Yes
Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Yes	No	Yes
Perlite	93763-70-3	Yes	No	No
Polyvinyl alcohol	9002-89-5	Yes	No	Yes
Quartz	14808-60-7	Yes	No	Yes
Talc	14807-96-6	Yes	No	Yes
Titanium dioxide	13463-67-7	Yes	No	Yes

## Canada

### Labor

#### Canada - WHMIS - Classifications of Substances

• Kaolin	1332-58-7	D2A
• Cellulose	65996-61-4	Not Listed
• Perlite	93763-70-3	D2A (expanded, containing >0.1% Crystalline silica); Uncontrolled product according to WHMIS classification criteria (expanded)
• Talc	14807-96-6	D2A D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Titanium dioxide,
• Titanium dioxide	13463-67-7	

		mixture containing on Health Canada's WHMIS Division website.)
• Limestone	1317-65-3	D2A
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Carbonic acid calcium salt (1:1)	471-34-1	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.)
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
• Polyvinyl alcohol	9002-89-5	Not Listed
<b>Canada - WHMIS - Ingredient Disclosure List</b>		
• Kaolin	1332-58-7	Not Listed
• Cellulose	65996-61-4	Not Listed
• Perlite	93763-70-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not Listed
• Quartz	14808-60-7	1 %
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
• Polyvinyl alcohol	9002-89-5	Not Listed

**Environment****Canada - CEPA - Priority Substances List**

• Kaolin	1332-58-7	Not Listed
• Cellulose	65996-61-4	Not Listed
• Perlite	93763-70-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not Listed
• Quartz	14808-60-7	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
• Polyvinyl alcohol	9002-89-5	Not Listed

**United States****Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• Kaolin	1332-58-7	Not Listed
• Cellulose	65996-61-4	Not Listed
• Perlite	93763-70-3	Not Listed

• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not Listed
• Quartz	14808-60-7	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
• Polyvinyl alcohol	9002-89-5	Not Listed

**U.S. - OSHA - Specifically Regulated Chemicals**

• Kaolin	1332-58-7	Not Listed
• Cellulose	65996-61-4	Not Listed
• Perlite	93763-70-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not Listed
• Quartz	14808-60-7	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
• Polyvinyl alcohol	9002-89-5	Not Listed

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

• Kaolin	1332-58-7	Not Listed
• Cellulose	65996-61-4	Not Listed
• Perlite	93763-70-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not Listed
• Quartz	14808-60-7	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
• Polyvinyl alcohol	9002-89-5	Not Listed

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

• Kaolin	1332-58-7	Not Listed
• Cellulose	65996-61-4	Not Listed
• Perlite	93763-70-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not Listed
• Quartz	14808-60-7	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
• Polyvinyl alcohol	9002-89-5	Not Listed

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

• Kaolin	1332-58-7	Not Listed
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• Cellulose	65996-61-4	Not Listed
• Perlite	93763-70-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not Listed
• Quartz	14808-60-7	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
• Polyvinyl alcohol	9002-89-5	Not Listed

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

• Kaolin	1332-58-7	Not Listed
• Cellulose	65996-61-4	Not Listed
• Perlite	93763-70-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not Listed
• Quartz	14808-60-7	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
• Polyvinyl alcohol	9002-89-5	Not Listed

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

• Kaolin	1332-58-7	Not Listed
• Cellulose	65996-61-4	Not Listed
• Perlite	93763-70-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not Listed
• Quartz	14808-60-7	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
• Polyvinyl alcohol	9002-89-5	Not Listed

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

• Kaolin	1332-58-7	Not Listed
• Cellulose	65996-61-4	Not Listed
• Perlite	93763-70-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not Listed
• Quartz	14808-60-7	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
• Polyvinyl alcohol	9002-89-5	Not Listed

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

• Kaolin	1332-58-7	Not Listed
• Cellulose	65996-61-4	Not Listed
• Perlite	93763-70-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not Listed
• Quartz	14808-60-7	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
• Polyvinyl alcohol	9002-89-5	Not Listed

## United States - California

### Environment

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

• Kaolin	1332-58-7	Not Listed
• Cellulose	65996-61-4	Not Listed
• Perlite	93763-70-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	carcinogen, 9/2/2011 (airborne, unbound particles of respirable size)
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not Listed
• Quartz	14808-60-7	carcinogen, 10/1/1988 (airborne particles of respirable size)
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
• Polyvinyl alcohol	9002-89-5	Not Listed

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

• Kaolin	1332-58-7	Not Listed
• Cellulose	65996-61-4	Not Listed
• Perlite	93763-70-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not Listed
• Quartz	14808-60-7	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
• Polyvinyl alcohol	9002-89-5	Not Listed

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

• Kaolin	1332-58-7	Not Listed
• Cellulose	65996-61-4	Not Listed
• Perlite	93763-70-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed

• Glass, oxide, chemicals	65997-17-3	Not Listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not Listed
• Quartz	14808-60-7	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
• Polyvinyl alcohol	9002-89-5	Not Listed

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

• Kaolin	1332-58-7	Not Listed
• Cellulose	65996-61-4	Not Listed
• Perlite	93763-70-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not Listed
• Quartz	14808-60-7	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
• Polyvinyl alcohol	9002-89-5	Not Listed

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

• Kaolin	1332-58-7	Not Listed
• Cellulose	65996-61-4	Not Listed
• Perlite	93763-70-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not Listed
• Quartz	14808-60-7	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
• Polyvinyl alcohol	9002-89-5	Not Listed

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

• Kaolin	1332-58-7	Not Listed
• Cellulose	65996-61-4	Not Listed
• Perlite	93763-70-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not Listed
• Quartz	14808-60-7	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
• Polyvinyl alcohol	9002-89-5	Not Listed

**Other Information**

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

## Section 16 - Other Information

**Revision Date**

- 12/January/2016

**Preparation Date**

- 30/April/2010

**Disclaimer/Statement of Liability**

- As of the date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable Federal and State Laws. However, no warranty or representation with respect to such information is intended or given.

**Key to abbreviations**

NDA = No Data Available