



## Section 2: Hazards Identification, continued

The early symptoms of silicosis are cough, mucous production and shortness of breath upon exertion. Silicosis may continue to develop even after exposure to crystalline silica has stopped.

The International Agency for Research on Cancer (IARC) has concluded that crystalline silica in the form of quartz from occupational sources should be classified as carcinogenic to humans (Group 1).

### Medical Conditions Aggravated by Exposure:

Skin contact may aggravate an existing dermatitis.

### Interactions With Other Chemicals:

Tobacco smoking in combination with long-term high dust exposures may increase both smoking and dust-related pulmonary health problems.

Simultaneous exposure to known carcinogens can increase the carcinogenicity of crystalline silica.

### Potential Environmental Effects:

No adverse effects known.

## Section 3: Composition / Information on Ingredients

### Hazardous Ingredients:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Wt.%</u>
Limestone	1317-65-3	60 - 90
Mica	12001-26-2	7 - 13
Kaolin clay	1332-58-7	7 - 13
Talc	14807-96-6	1 - 4
Attapulgite	12174-11-7	1 - 3
Total Crystalline silica (Quartz)	14808-60-7	1 - 5
Ethylene glycol	107-21-1	0.1 - 0.7

**Note:** See Section 8 of this SDS for exposure limit data for these ingredients.

## Section 4: First Aid Measures

**Inhalation:** If high airborne concentrations are present, take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment). If symptoms develop, remove source of contamination or move victim to fresh air. Obtain medical advice.

**Eye Contact:** Do not allow victim to rub eyes. Let the eyes water naturally for a few minutes. Have victim look right and left, and then up and down. If particle/dust does not dislodge, flush with lukewarm, gently flowing water for 5 minutes or until particle/dust is removed, while holding the eyelids open. If irritation persists, immediately obtain medical attention. DO NOT attempt to manually remove anything stuck to the eye.

**Skin Contact:** No health effects expected. If irritation does occur, flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.

**Ingestion:** If irritation or discomfort occurs, obtain medical attention immediately.

**Notes to Physician:** Jurisdictions which have specific regulations for crystalline silica also require medical surveillance programs. Medical surveillance programs may include periodic physical examinations, chest X-rays and pulmonary function tests. Since there may be some variation in these requirements, specific information should be sought from the appropriate government agency in each jurisdiction.

## Section 5: Fire Fighting Measures

**Flammable Properties:** Product is non-flammable and does not support combustion.

**Suitable extinguishing Media:** Use water or other extinguishing media appropriate for the surrounding fire.

**Unsuitable extinguishing Media:** Not available

## Section 5: Fire Fighting Measures, continued

### Explosion Data

**Sensitivity to Mechanical Impact:** Not sensitive  
**Sensitivity to Static Discharge:** Not sensitive

**Specific Hazards arising from the Chemical:** Calcium carbonate may decompose into corrosive calcium oxide and carbon dioxide at about 825°C (1517°F).

**Protective Equipment and precautions for firefighters:** As for any fire, evacuate the area and fight the fire from a safe distance. Wear a pressure-demand, self-contained breathing apparatus and full protective gear. Fight fire from a protected location or a safe distance.

### NFPA

**Health:** 1  
**Flammability:** 0  
**Instability:** 0

## Section 6: Accidental Release Measures

**Personal Precautions:** Wear proper personal protective equipment as indicated in Section 8.

**Environmental Precautions:** Prevent material from contaminating soil and from entering sewers or waterways.

**Methods for Containment:** No special methods required.

**Methods for Clean-up:** Scoop or shovel spilled material into an appropriate waste container for disposal. Collect all spilled material for proper disposal. Dispose in accordance with federal, state and local regulations.

## Section 7: Handling and Storage

**Handling:** Avoid breathing dust from this product. Wet sand when possible. Avoid contact with eyes, skin and clothing. Minimize dust generation and accumulation. Wear protective glasses and gloves. In workplaces where occupational exposure limits are exceeded, wear appropriate respiratory protection. (See Section 8).

**Storage:** KEEP OUT OF REACH OF CHILDREN. Store product in its original container. Keep from freezing and extreme heat. Keep container closed when not in use. See Section 13 for disposal considerations.

## Section 8: Exposure Controls/Personal Protection

### Exposure Guidelines

<u>Ingredient</u>	<u>ACGIH TLV (8-hr. TWA) (mg/m<sup>3</sup>)</u>	<u>U.S. OSHA PEL (8-hr. TWA) (mg/m<sup>3</sup>)</u>	<u>Ontario (Canada) TWA EV (mg/m<sup>3</sup>)</u>
Limestone	Not established	15 (total dust) 5 (respirable fraction)	Not established
Mica	3 (respirable)	20 mppcf* (less than 1% crystalline silica)	Not established
Kaolin clay	2 (respirable)	15 (total dust) 5 (respirable fraction)	Not established
Talc	2 (respirable)	20 mppcf* (less than 1% crystalline silica)	2 (respirable)
Crystalline silica (Quartz)	0.025 (respirable)	quartz (total dust): 30 mg/m <sup>3</sup> / (%SiO <sub>2</sub> + 2) quartz (respirable): 10 mg/m <sup>3</sup> / (%SiO <sub>2</sub> + 2)	0.1 (respirable) Designated Substance in Ontario
Ethylene glycol	100 Ceiling (aerosol only)	Not established	Not established

\*mppcf: Million particles per cubic foot of air.

## Section 8: Exposure Controls/Personal Protection, continued

### Exposure Controls

**Other Exposure Guidelines:** For Kaolin Clay: NIOSH REL 10 mg/m<sup>3</sup> (total dust); 5 mg/m<sup>3</sup> (respirable dust)

**Engineering Controls:** General ventilation is adequate for application of product in its original form. During sanding operations, monitor dust concentrations in air and provide local exhaust ventilation when any exposure guideline is exceeded.

### Personal Protection:

**Eye/Face Protection:** Wear safety glasses or goggles. During sanding operations wear protective goggles.

**Skin Protection:** Wear protective gloves when necessary to prevent irritation to the skin.

**Respiratory Protection:** During sanding operations and when dust concentrations in air exceed the occupational exposure guidelines, always take the following precautions:

- Wear a NIOSH approved dust mask.
- Maintain adequate ventilation and air circulation.
- Warn others in the area.
- Use a NIOSH approved respirator when dust levels exceed any of the exposure guidelines listed in the table above.

NIOSH recommendations for Crystalline silica (respirable dust); concentrations in air:

UP TO 0.5 mg/m<sup>3</sup>: Air-purifying respirator with high-efficiency particulate filter(s).

UP TO 1.25 mg/m<sup>3</sup>: Powered air-purifying respirator with high-efficiency particulate filter; or SAR operated in a continuous-flow mode.

UP TO 2.5 mg/m<sup>3</sup>: Full-facepiece air-purifying respirator with high-efficiency particulate filter(s); or powered air-purifying respirator with tight-fitting facepiece and high-efficiency particulate filter.

UP TO 25 mg/m<sup>3</sup>: Positive pressure SAR.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or Canadian Standards Association (CSA) Standard Z94.4-02 must be followed whenever workplace conditions warrant a respirator's use.

**Other Protective Equipment:** Not applicable

**General Hygiene Measures:** Launder contaminated clothing before re-wearing, or discard. Do not eat, drink or smoke in work areas. Wash hands thoroughly after handling this material. Maintain good housekeeping.

## Section 9: Physical and Chemical Properties

<b>Physical State:</b>	Paste	<b>Flash Point &amp; method:</b>	Not applicable
<b>Appearance, Colour and Odour:</b>	Water-based paste, white to light grey, odourless.	<b>Autoignition Temperature:</b>	Not applicable
<b>Odour Threshold:</b>	Not available	<b>Flammability Limits in Air:</b>	Not applicable
<b>pH:</b>	7 – 8.5	<b>Vapour Pressure:</b>	Not available
<b>Relative density: (water = 1)</b>	0.8 – 1.7	<b>Vapour Density: (Air = 1)</b>	Not available
<b>Partition coefficient: (n-octanol/water)</b>	Not available	<b>Evaporation Rate: (n-Butyl Acetate = 1)</b>	Not available
<b>Solubility:</b>	Slightly soluble in water	<b>Boiling Point/Range:</b>	Similar to water (~ 100°C )
<b>Viscosity:</b>	Not available	<b>Melting Point:</b>	Similar to water (< 0°C )
<b>Decomposition Temperature:</b>	825°C (1517°F)		

## Section 10: Stability and Reactivity

<b>Chemical Stability:</b>	Stable
<b>Conditions to Avoid:</b>	Not available
<b>Incompatible Materials:</b>	Strong acids, Aluminum and Ammonium salts. May react with strong acids to liberate carbon dioxide.
<b>Hazardous Decomposition Products:</b>	Calcium oxide may form if product is exposed to extreme heat 825°C (1517°F).
<b>Possibility of Hazardous Reactions:</b>	None known

## Section 11: Toxicological Information

### Acute Toxicity Data

Acute Toxicology data are not available for this mixture. Toxicology data are available for the following components:

	<u>LD<sub>50</sub> Oral</u> (mg/kg)	<u>LD<sub>50</sub> Dermal</u> (mg/kg)	<u>LC<sub>50</sub> Inhalation</u> (4 hrs.)
Limestone	6 450 (rat)	Not available	Not available
Ethylene glycol	1 650 (cat)	9 500 (rabbit)	Not available

### Chronic Toxicity Data

#### Carcinogenicity

The following components have been categorized for carcinogenicity:

	<u>ACGIH</u>	<u>IARC</u>	<u>NTP</u>
Kaolin clay	A4	Not listed	Not listed
Talc	A4	Group 3	Not listed
Attapulgite	Not listed	Group 2B (fibre <5µm) Group 3 (fibre >5µm)	Not listed
Crystalline silica (Quartz)	A2	Group 1	Known
Ethylene glycol	A4	Not listed	Not listed

ACGIH: (American Conference of Governmental Industrial Hygienists)

A2: Suspected human carcinogen

A4: Not classifiable as a human carcinogen

IARC: (International Agency for Research on Cancer)

Group 1: The agent is carcinogenic to humans

Group 2B: The agent is possibly carcinogenic to humans

Group 3: The agent is not classifiable as to its carcinogenicity in humans

NTP: (National Toxicology Program)

Known – Known to be a human carcinogen

**Irritation:** Inhaling high concentrations of airborne dust may cause coughing and mild, temporary irritation. Irritating to the eyes as a foreign object.

**Corrosivity:** Not applicable

**Sensitization:** Not applicable

**Neurological Effects:** Not applicable

**Genetic Effects:** Not applicable

**Reproductive Effects:** Not applicable

**Developmental Effects:** Ingestion of ethylene glycol produced embryotoxic and teratogenic effects in animal feeding studies at high doses which were not maternally toxic.

**Target Organ Effects:** Lungs and eyes.

## Section 12: Ecological Information

<b>Ecotoxicity:</b>	Not applicable
<b>Persistence/Degradability:</b>	Not available
<b>Bioaccumulation/Accumulation:</b>	Not applicable
<b>Mobility:</b>	Not available

## Section 13: Disposal Considerations

<b>Waste Disposal Method:</b>	Do NOT dump into any sewers, on the ground or into any body of water. Store material for disposal as indicated in Section 7 Handling and Storage.
<b>United States:</b>	Dispose of in accordance with local, state and federal laws and regulations. RCRA Waste Codes: Not applicable
<b>Canada:</b>	Dispose of in accordance with local, provincial and federal laws and regulations.

## Section 14: Transport Information:

<b>U.S. Hazardous Materials Regulation (DOT 49CFR):</b>	Not regulated as a dangerous good for transport.
<b>Canadian Transportation of Dangerous Goods (TDG):</b>	Not regulated as a dangerous good for transport.
<b>ADR/RID:</b>	Not regulated as a dangerous good for transport.
<b>IMDG:</b>	Not regulated as a dangerous good for transport.
<b>Marine Pollutants:</b>	Not applicable
<b>ICAO/IATA:</b>	Not regulated as a dangerous good for transport.

## Section 15: Regulatory Information

### USA

**TSCA Status:** All ingredients in the product are listed on the TSCA inventory.

#### **SARA Title III**

Sec. 302/304: None  
Sec. 311/312: Chronic (Delayed health effects)  
Sec. 313: None  
CERCLA RQ: None

**California Prop 65:** This product may contain a substance known to the State of California to cause cancer [Crystalline silica – airborne particles of respirable size; traces of formaldehyde and vinyl acetate monomer].

### Canada

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the SDS contains all the information required by the *Controlled Products Regulations*.

**WHMIS Classification:** D2A – Material Causing Other Toxic Effects– Due to risk of inhaling Crystalline silica during (for workplace exposures) sanding operations.

**New Substance Notification Regulations:** All substances in this product are listed on Canada's Domestic Substances List (DSL).

**National Pollutant Release Inventory:** There are no NRPI reportable substances in this product.

## **Section 16: Other Information**

**Revision date:** November 8, 2011

**Manufacturer's Disclaimer:** Information listed is believed to be accurate but not warranted or guaranteed.

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