Material Safety Data Sheet
Wollastonite

Section I. Material Identification and Use

Material Name / Identifier: Wollastonite / Diopside ore
Chemical Name: Not applicable
Chemical Family: Calcium Silicate
Chemical Formula: Not applicable
Trade Name and Synonyms: Wollastonite, Calcium Silicate, Calcium inosilicate
Molecular Weight: Not applicable
Material Use: Mineral source of Ca, Mg, Si; used in agriculture, horticulture and steel manufacture.

Section II. Hazardous Ingredients of Materials

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS#</th>
<th>Percentage of Weight</th>
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<tbody>
<tr>
<td>Wollastonite</td>
<td>13983-17-0</td>
<td>40-90%</td>
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Wollastonite, a naturally occurring calcium silicate, is known to contain some quartz (silica), and feldspar.

Section III. Physical Data for Material

Physical State: Solid
Odour and Appearance: Odourless; white and light green finely grained material
Odour Threshold: Not applicable
Specific Gravity: 2.8 – 3.0
Vapour Pressure: Not applicable
Vapour Density: Not applicable
Evaporation Rate: Not applicable
Solubility in Water: None
Boiling Point: Not applicable
Freezing Point: Not applicable
pH: Not applicable
Percent Volatiles: Not applicable
Coefficient of Water / Oil Distribution: Not applicable

Section IV. Fire and Explosion Hazard of Material

Not Applicable to Material

Section V. Reactivity Data

Chemical Stability: Stable
Incompatibility to Other Substances: No
Hazardous Decomposition Products: None
Reactivity: Decomposes in presence of acids
Section VI. Toxicological Properties of Material

**Route of Entry:** Inhalation  
**Effects of Acute Exposure to Material:** Inhalation of dust may irritate the respiratory tract. No reports of acute toxicity have been reported for this material.

**Effects of Chronic Exposure to Material:** Long term exposure to dust particles in the respirable size range has caused obstructive lung disease (pneumoconiosis). Long term exposure to mineral dusts containing silica at levels exceeding legislated exposure limits has caused silicosis, a serious and progressive disease of the lung. Symptoms may occur many years after the initial exposure to silica and may include shortness of breath, difficulty in breathing, coughing, diminished work capacity, diminished chest expansion, reduction of lung volume and right heart enlargement and/or failure. The only reliable method of detecting silicosis is by chest X-ray. Silicosis may aggravate other chronic pulmonary conditions and may increase the risk of pulmonary tuberculosis. Smoking aggravates the effects of silica exposure.

**LD₅₀ of Material:** Not available  
**Exposure Limits (Ontario):** Time Weighted Average Exposure Value (TWAEV) silica - 0.2 mg/m³  
For additional information regarding control of silica exposures consult the Ontario Designated Substances Regulation for Silica (R.R.O. 1990, Reg. 845, as amended by O. Reg. 521/92).  
**Irritancy of Material:** None  
**Sensitization of Material:** None  
**Carcinogenicity:** Silica in the form of crystalline Quartz is listed as a potential carcinogen by the International Agency for Research on Cancer (IARC). IARC has determined that there is limited evidence of carcinogenicity to humans. Silica is present in this material at greater than 0.1% resulting in this product being classified as a Controlled Product.

Section VII. Preventative Measures

**Personal Protective Equipment:** Respiratory protection should be worn whenever dust may be generated. Respirators should carry an approval such as NIOSH TC-21 C for dusts and mists or equivalent. Refer to the Ontario regulation for specific types of respiratory equipment to be used for various respirable silica exposure levels.

**Engineering Controls:** Wherever feasible, dust levels are to be controlled through the use of engineering controls. This may include wet suppression, dust collection, ventilation, process enclosure and the use of enclosed pressurized employee work stations.

**Leak and Spill Procedure:** Spilled materials, where dust may be generated, may expose clean up personnel to respirable silica. Wetting of spilled materials and/or the use of respiratory protection may be necessary.

**Waste Disposal:** Re-use clean material whenever possible. Waste material may be disposed of in a solid waste disposal facility.

**Storage Requirements:** None

**Special Shipping Requirements:** None

Section VIII. First Aid Measures

**Inhalation:** Remove person to fresh air. Dust accumulation in throat and nasal passages will clear spontaneously. Seek medical attention if irritation persists.

**Eye Contact:** Use running water to flush the eyes for 15 minutes. Dust particles may cause physical abrasion of the cornea and/or cause general irritation of the eye tissue. Seek medical attention if irritation persists.

**Skin Contact:** Wash skin with mild soap and water.
Section IX. Preparation Date of MSDS

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Date: June 16, 2015

Section X. Label Information

Labelling of bulk products is not required, however label information is as follows:

Precautionary Statements: Avoid Inhalation of Dust. Wear Appropriate Respiratory Protection
WHMIS Classification: D2A Materials causing other toxic effects.

The Company believes that the information contained herein is factual. The data and information presented are offered without warranty, guarantee or liability on the part of the company, and are presented to the customer for his own consideration, investigation and verification.