## **SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: UltraFine Wollastonite (200mesh)

SYNONYMS: Ground Wollastonite

PRODUCT DESCRIPTION: Various uses
CAS NUMBER: Mixture

SUPPLIER NAME: Canadian Wollastonite

ADDRESS: 6675 Highway 15, Seeley's Bay, Ontario, Canada K0H 2N0

BUSINESS PHONE: 613-387-2734
BUSINESS FAX: 613-387-3934
EMERGENCY CONTACT: Local first responders
DATE OF PREPARATION: June 27, 2020
DATE OF LAST REVISION: August 9, 2017

## **SECTION 2 - HAZARDS IDENTIFICATION**

#### Classification of the mixture

This product does meet the definition of a hazardous substance or preparation as defined by 29 CFR 1910. 1200 and WHMIS 2015.

## Component(s) Contributing to Classification(s)

SiO2, CaO, K2O, Na2O, TiO2

## GHS Label elements, including precautionary statements

#### Pictogram(s):





## Signal Word:

Danger

## GHS Hazard Classification(s):

Eye Irritation Category 2A
Carcinogenicity Category 1

STOT RE Category 1 (Respiratory Tract)

## **Hazard Statement(s):**

H319 Causes serious eye irritation

H350 May cause cancer

H372 Causes damage to organs through prolonged or repeated exposure.

## Prevention Statement(s):

P201 Obtain special instructions before use.

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

P260 Do not breath dust.

P264 Wash thoroughly after handling.

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

P280 Wear protective gloves/eye protection/face protection.

## Response Statement(s):

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention. P308+P313 If exposed or concerned: Get medical advice/attention.

#### Storage Statement(s):

P405 Store locked up.

### **Disposal Statement(s):**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Other Hazards

## **POTENTIAL HEALTH EFFECTS:**

**INHALATION:** Inhalation may cause respiratory irritation. Prolonged exposure can cause damage to the respiratory tract

**EYE:** Direct contact may cause irritation with pain and redness.

**SKIN:** May cause irritation.

INGESTION: May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

Diarrhea.

ROUTES OF ENTRY: Inhalation, Skin Contact and/or Eye Contact.

## **SECTION 3 - COMPOSITION and INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENTS:	CAS#	WT %
SiO2	7631-89-9	57.6
CaO	1305-78-8	23.7
MgO	1309-48-4	6.16
Al2O3	1344-28-1	4.89
K2O	12136-45-7	2.07
Fe2O3	1309-37-1	2.01
Na2O	1313-59-3	1.51
S	7704-34-9	1.12
TiO2	13463-67-7	0.25

<sup>\*</sup>Note\* Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

## **SECTION 4 - FIRST-AID MEASURES**

#### Description of first aid measures

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and SDS to health professional with contaminated individual.

**EYE CONTACT:** If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation persists.

**SKIN CONTACT:** Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before re-use.

**INHALATION:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

**INGESTION:** If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

#### Most important symptoms and effects, both acute and delayed

This product may cause eye irritation. Prolonged exposure can cause damage to the respiratory tract and is a carcinogenicity hazard.

### Medical conditions aggravated by exposure:

This material or its emissions may aggravate pre-existing disorders involving any target organs mentioned in this Safety Data Sheet as being at risk.

#### Indication of immediate medical attention and special treatment needed

Treat symptoms and reduce over-exposure.

#### **SECTION 5 - FIRE-FIGHTING MEASURES**

#### Extinguishing media

Water Fog, alcohol-resistant foam, dry chemical or CO2.

## Specific hazards arising from the chemical

None applicable.

Explosion Sensitivity to Mechanical Impact: Not Sensitive. Explosion Sensitivity to Static Discharge: Not expected

## **Special firefighting Procedure**

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

## Spill Management:

**Land Spill:** Measures should be taken to minimize dust generation. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container.

**Small Spill:** Measures should be taken to minimize dust generation Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container.

## **Environmental precautions**

No specific data applicable to this product.

## Methods and material for containment and cleaning up

Pick up released product with appropriate implements & return to original container if reusable, or dispose. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

## **SECTION 7 - HANDLING and STORAGE**

#### Handling:

Read label for instructions in use of product. Avoid the inhalation of dust. Wear a dust-filtering face mask when handling. Avoid contact with eyes.

## Storage:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers. Use appropriate containment.

#### Specific end uses

Various uses.

## **SECTION 8 - EXPOSURE CONTROLS - PERSONAL PROTECTION**

## **Control parameters**

## **EXPOSURE LIMITS/GUIDELINES:**

Chemical Name	Limit	Source
Wollastonite	TWA 15 mg/mg <sup>3</sup> (Respirable Dust)	OSHA
	TWA 10 mg/mg <sup>3</sup> (Respirable Dust)	ACGIH
SiO2	TWA 10 mg/m3 / % SiO2 +2	OSHA
	TWA 0.025 mg/m3 (Respirable Fraction)	ACGIH

## **Exposure Controls**

Currently, International exposure limits are established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below. Use local exhaust ventilation to control airborne dust. Ensure eyewash/safety shower stations are available near areas where this product is used.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

**RESPIRATORY PROTECTION:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**EYE PROTECTION:** Safety glasses are required. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

**HAND PROTECTION:** Use protective gloves as appropriate to minimize skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

**BODY PROTECTION:** Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

Not Available

## **SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

PHYSICAL STATE: Solid ODOR: None

ODOR THRESHOLD (PPM): Not Available

APPEARANCE / COLOR: light gray to white colour pH: 9.9 in a 10 wt.-% water slurry

**MELTING / FREEZING POINT (C°):** 1540°C **BOILING POINT (C°):** Not Available FLASH POINT (C°): Not Applicable **EVAPORATION RATE (nBuAc = 1):** Not Available FLAMMABILITY (solid, gas): Not Available FLAMMABLE LIMITS (in air by volume, %): Not Available VAPOR PRESSURE (mmHg): Not Applicable **VAPOR DENSITY (AIR=1):** Not Applicable **RELATIVE DENSITY** 2.86-3.09 **SOLUBILITY IN WATER (%)** Not Available

AUTOIGNITION TEMPERATURE:

DECOMPOSITION TEMPERATURE:

VISCOSITY:

Not Available

+1120°C

Not Available

EXPLOSIVE PROPERTIES:

Not Applicable

OXIDISING PROPERTIES: Not Available Other Information

Molecular Weight:116.17 g/molPOUR POINT:Not Available

## **SECTION 10 - STABILITY and REACTIVITY**

**PARTITION COEFFICIENT: N-OCTANOL/WATER:** 

Reactivity: Not reactive.

Chemical Stability: Product is stable under recommended storage conditions.

Possibility of Hazardous Reactions: Not expected, polymerization will not occur.

**Conditions to avoid:** Creation of dust. **Incompatible materials:** No data available.

Hazardous Decomposition Products: No data available.

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

## **Information on Toxicological Effects**

TOXICITY DATA: No specific data available for this product.

## POTENTIAL HEALTH HAZARDS OR RISKS FROM EXPOSURE:

### **CARCINOGENICITY:**

Wollastonite: IARC (1997) classifies wollastonite as Group 3 (not classifiable as to its carcinogenicity to humans), based on inadequate evidence in both humans and animals. In an epidemiological study of a small cohort of wollastonite quarry workers (Huuskonen et al, 1983), the observed deaths from all cancers and lung cancer were lower than expected. In a 2 year rat inhalation bioassay (NTP / McConnell et al, 1991), wollastonite did not cause an increased incidence of tumors; however, some concern exists regarding the concentration of specific fiber sizes used in the study.

Quartz: Silica dust, crystalline, in the form of quartz is classified by IARC as Group 1 (carcinogenic to humans) based on "sufficient evidence" in occupationally exposed humans and sufficient evidence in animals. Crystalline silica of respirable size is classified by the NTP as a known human carcinogen. In its 2013 Proposed Rule on respirable

crystalline silica, "OSHA preliminarily concludes that the human data provides ample evidence that exposure to respirable crystalline silica increases the risk of lung cancer among workers", while NIOSH identifies various crystalline or fused silicas as potential occupational carcinogens. However, not all epidemiologic and animal studies have demonstrated a cancer association and some uncertainty exists concerning the cancer classification of crystalline silica. For example, in Europe, a recent review concludes that crystalline silica should not be classified as a carcinogen since silicosis of the lung is the key endpoint for classification (Morfeld, 2010).

**IRRITANCY OF PRODUCT:** Exposure with this product may be irritating to exposed skin, eyes, and respiratory system. **SENSITIZATION OF PRODUCT:** This product is not considered a skin sensitizer.

**REPRODUCTIVE TOXICITY INFORMATION:** This product does not contain components which are documented as reproductive hazards.

## **SECTION 12 - ECOLOGICAL INFORMATION**

#### ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

## **Toxicity**

No specifc data available for this product.

## Persistence and degradability

No specific data available for this product.

#### Bioaccumulative potential

No specifc data available for this product.

### Mobility in soil

No specifc data available for this product.

## Results of PBT and vPvB assessment

No specific data available on this product.

#### Other adverse effects

No specifc data available for this product.

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

**PREPARING WASTES FOR DISPOSAL:** Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, and those of Canada.

#### **SECTION 14 - TRANSPORTATION INFORMATION**

#### DOT:

PROPER SHIPPING NAME: Not Regulated

HAZARD CLASS NUMBER and DESCRIPTION: Not applicable

**UN IDENTIFICATION NUMBER:** Not applicable

PACKING GROUP: Not applicable LABEL(S) REQUIRED: Not applicable

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2016): Not applicable

NOTE: Shipped in 10 & 25 Kg Bags, 1000 Kg Polypropylene Sacs, Bulk per Ton

MARINE POLLUTANT: None of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49

CFR 172.101, Appendix B)

## LAND (TDG):

**PROPER SHIPPING NAME:** Not Regulated

**HAZARD CLASS NUMBER and DESCRIPTION:** Not applicable

**UN IDENTIFICATION NUMBER:** Not applicable

PACKING GROUP: Not applicable LABEL(S) REQUIRED: Not applicable

SEA (IMDG):

PROPER SHIPPING NAME: Not Regulated

**HAZARD CLASS NUMBER and DESCRIPTION: Not applicable** 

EMS NUMBER: Not applicable

**UN IDENTIFICATION NUMBER:** Not applicable

**PACKING GROUP:** Not applicable **LABEL(S) REQUIRED:** Not applicable

AIR (IATA)

PROPER SHIPPING NAME: Not Regulated

HAZARD CLASS NUMBER and DESCRIPTION: Not applicable

**UN IDENTIFICATION NUMBER:** Not applicable

PACKING GROUP: Not applicable LABEL(S) REQUIRED: Not applicable

TRANSPORTATION LIMITATIONS: Not applicable TRANSPORT DOCUMENT NAME: Not applicable

#### **SECTION 15 - REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture UNITED STATES REGULATIONS

**SARA REPORTING REQUIREMENTS:** This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.

**TSCA:** All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

## SARA 311/312:

Acute Health: Yes Chronic Health: Yes Fire: No Reactivity: No

U.S. CERCLA REPORTABLE QUANTITY (RQ): CERCLA Reportable Quantity RQ: None

**CLEAN WATER ACT:** 

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product contains ingredients which are on the California Proposition 65 lists: Silica, Crystalline, Quartz, Titanium Dioxide

### **CANADIAN REGULATIONS**

WHMIS Classification: Classified per WHMIS 2015. See section 2 for details.

**CEPA:** All components of this material are either on the Canadian Domestic Substances List (DSL), exempt, or have been notified under CEPA.

NATIONAL CHEMICAL INVENTORY LISTING: AICS, IECSC, DSL, EINECS, KECI, TSCA

### SECTION 16 - OTHER INFORMATION





Caution: HMIS and NFPA ratings are based on a 0-4 rating scale 0= Minimal Hazard, 1= Slight, 2= Moderate, 3= High, 4= Extreme

## **GENERAL STATEMENTS:**

Key or Legend to abbreviations and acronyms

AIHA - American Industrial Hygiene Association

ACGIH - American Conference of Governmental Industrial Hygienists

CASRN - Chemical Abstract Services Registry Number

CFR - Code of Federal Regulations

DOT - United States Department of Transportation
IARC - International Agency for Research on Cancer
OSHA - Occupational Safety and Health Administration
NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

PPM - Parts per million n.o.s. - not otherwise specified

Lbs. - Pounds

PMCC - Pensky-Martens Closed Cup

LC50 - Lethal Concentration 50 (concentration in water having a 50% chance of causing death to aquatic life)

EC50 - Effective Concentration that causes 50% inhibition in growth or mobilization

VOC - Volatile Organic Compound

PREPARED BY: Chris Eigbrett

MSDS to GHS Compliance (www.msdstoghs.com)

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Revision History: August 9, 2017 June 27, 2020

Document CreationUpdated environmental

**END OF SDS**