



SAFETY DATA SHEET

2433 No.2 Sideroad, post office box 1070, Burlington, Ontario, L7R 4L8
Phone: 905-335-5250
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NB: N/A- Not Applicable or Not Available

SECTION I: MATERIAL IDENTIFICATION AND USE

Material Name / Identifier:	Limestone
Manufacturer's Name:	NELSON AGGREGATE CO P.O BOX 1070 BURLINGTON ON L7R 4L8
Supplier's Name:	
Chemical Name:	Limestone
Chemical Family:	Carbonate Rock
Chemical Formula:	Complex mixture (naturally variable)
Trade Name and Synonyms:	Aglime, manufactured sand, aggregate, Dolomite, crushed stone.
Molecular Weight:	N/A
Material use:	construction, ready-mix concrete, concrete products, asphalt, agriculture, metallurgical processes.

SECTION 2: HAZARD IDENTIFICATION

Hazardous Ingredient:	Limestone* (Primarily Calcium and Magnesium Carbonates)
Approximate Concentration Percentage	100
C.A.S., N.A. or U.N. Numbers:	1317-65-3
LD50 (Specify Species and Route)	N/A
LC50 (Specify Species and Route)	N/A
GHS Classification	Not classified
*Hazardous Ingredient	Quartz (Crystalline Silica)
Carcinogenicity(inhalation)	Cat.1;H372
Approximate Concentration Percentage	10-30%
C.A.S., N.A. or U.N. Numbers:	14808-60-7
LD50 (Specify Species and Route)	N/A
LC50 (Specify Species and Route)	N/A
GHS Classification	Carc.1; H350 STOT RE1; H372

LABEL ELEMENTS: DANGER



Hazard statement: May cause cancer if inhaled.
May cause damage to lungs through prolonged exposure if inhaled.

Prevention:

Do not handle until all safety precautions have been read and understood.
Do not breathe dust.
Wash hands and any exposed areas thoroughly with water.
Do not eat, drink, or smoke when using this product.
Wear protective gloves, clothing, face protection.

Response: If exposed or concerned get medical attention.

Storage/Disposal: Recycle/dispose of contents and containers in accordance with local, regional, national, and international regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Physical State:	Solid
Odour and Appearance:	No odour; angular grey/brown/white particles of varying sizes
Odour Threshold (P.P.M.)	N/A
Specific Gravity	2.6 – 2.8
Vapour Pressure (MM)	N/A
Vapour Density (Air = 1)	N/A
Evaporation Rate	0
Solubility in Water (20° C)	Negligible
Boiling Point (° C)	N/A
Freezing Point (°C)	N/A
pH:	N/A
Percentage Volatile (By Volume)	0
Coefficient of Water/Oil Distribution	N/A



SECTION 4: FIRST AID MEASURES

Description of first aid measures:

Eye contact: Flush out eyes with running water for 15 minutes. Remove contact lenses if present. Do not rub eyes. Contact a physician if irritation persists.

Skin contact: Wash with soap and water. Contact a physician if irritation persists.

Inhalation contact: If breathing is difficult get person to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a physician if irritation persists.

Most important symptoms and effects, both acute and delayed:

Inhalation: High concentrations of airborne dusts are irritating to the upper respiratory tract. Symptoms may include coughing, sneezing, and shortness of breath. Long-term inhalation exposure to dusts containing respirable size crystalline silica can cause silicosis and lung cancer. Symptoms of silicosis are shortness of breath difficulty breathing, coughing, diminished chest expansion, and reduction of lung volume. Smoking aggravates the effects of silica exposure.

Eye Contact: Dust particles can cause mechanical abrasion. Symptoms include irritation and redness of eyes.

Skin contact: Dust particles may be abrasive to skin.

Ingestion: Swallowing aggregate may cause gastro-intestinal discomfort.

Indication of any immediate medical attention and special treatment needed:
Not known

SECTION 5: FIRE FIGHTING MEASURE

Extinguisher media:

Use extinguishing media appropriate to the surrounding fire conditions. Natural stone products are not combustible.

Hazardous combustion:

Flammability:	N/A
Means of Extinction:	N/A
Special Procedures	N/A
Flashpoint (° C) and Method	N/A
Upper Explosion Limit (Percentage by Volume)	N/A
Lower Explosion Limit (Percentage by Volume)	N/A
Autoignition Temperature (° C)	N/A
Hazardous Combustion Products	N/A



EXPLOSION DATA:

Sensitivity to Mechanical Impact	N/A
Sensitivity to Static Discharge	N/A

Special protective equipment and precautions for firefighter:

Evacuate the area and fight the fire from a safe distance.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Chemical Stability	Yes
Incompatibility to other substances	No
Reactivity, and Under What Conditions:	Neutralizing agent for strong acids
Hazardous Decomposition Products:	None known

Personal precautions, protective equipment and emergency procedures:

Wear adequate personal protective equipment.

Gloves (Specify): Work gloves recommended.

Eye (Specify): Safety glasses with a side shield should be worn as minimum protection. Dust goggles should be worn when excessively (visible) dusty conditions are present or anticipated.

Respiratory (Specify): Wear appropriate respirator as indicated in section 8.

Other (Specify): Work clothing recommended to reduce skin exposure. Wash work clothing after every use.

Methods and material for containment and cleaning up:

Engineering Controls (Ventilation, Enclosed Process – Specify): Where feasible, the dust levels should be reduced through wet suppression, dust collection, ventilation, process enclosure and enclosed pressurized employee work stations.

Leak and Spill Procedure: Spilled materials, where dust can be generated, may expose clean-up personnel to respirable dust. Wetting of spilled material and/or use of protective respiratory equipment may be necessary.

Waste Disposal: Re-use clean materials; dispose of waste materials only in accordance with applicable federal, provincial and local laws and regulations.

Handling Procedures and Equipment: Respirable dust may be generated during processing, handling and storage – avoid inhalation. Refer to “Personal Protective Equipment – Respiratory”.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:

Do not handle until all safety precautions have been read and understood.
 Avoid raising dust into workplace air.
 Do not breathe dust.
 Wash hands and any exposed areas thoroughly with water.
 Do not eat, drink, or smoke when using this product.
 Wear protective gloves, clothing, face protection.

Conditions for safe storage:

Store in a manner that minimizes the activation of airborne dust.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA – Time-Weighted Average

For additional information on the Occupational Exposure Limits consult local authorities for acceptable exposure limits.

INGREDIENT	ACGIH TLV	US OSHA PEL	OTHER EXPOSURE LIMITS
Limestone	N/A	15 mg/m ³ (total dust) 5 mg/m ³ (respirable)	NIOSH REL: 10 mg/m ³ (total) 5 mg/m ³ (respirable) RSST VEMP (Quebec-Canada) 10mg/m ³
Crystalline silica (Quartz)	0.025 mg/m ³ (respirable)	Quartz (total dust) 30 mg/m ³ / (%SiO ₂ +2) Quartz (respirable) 10 mg/m ³ / (%SiO ₂ +2)	NIOSH IDLH: 50 mg/m ³ RSST VEMP (Quebec-Canada) 0.01 mg/m ³ (respirable) Ontario (Canada) TWA 0.1 mg/m ³ (respirable) Designated substance
Particles not otherwise specified (PNOS)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable fraction)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)	Ontario (Canada) TWA 10mg/m ³ (inhalable) 3 mg/m ³ (respirable fraction)

Carcinogenicity, Reproductive Effects, Teratogenicity, Mutagenicity:

As of the date of preparation of this SDS:

- 1) Limestone is not included on the ACGIH, IARC, NTP or OSHA lists of potential carcinogens.
- 2) Silica, in the form of crystalline Quartz, and as a component of this material, is listed as a potential carcinogen by IARC, but not by ACGIH, NTP or OSHA. IARC (International Agency for Research on Cancer) has determined that there is sufficient evidence of carcinogenicity of crystalline silica to experimental animals, and that there is limited evidence of the carcinogenicity to humans. Limited evidence of carcinogenicity indicates that casual interpretation is credible, but alternate explanations such as chance, bias or confounding factors could not adequately be excluded. There is no evidence that limestone is a teratogen, a mutagen or has a reproductive effect.



Exposure Controls:

Engineering Controls (Ventilation, Enclosed Process – Specify): Where feasible, the dust levels should be reduced through wet suppression, dust collection, ventilation, process enclosure and enclosed pressurized employee work stations. If airborne particles are generated monitor dust concentrations in air and provide local exhaust ventilation when any exposure guideline is exceeded. Ensure regular cleaning/housekeeping of equipment, work areas, and clothing.

If engineering controls and work practices are not effective in controlling exposure to this material, wear suitable personal protective equipment including respiratory protection.

Leak and Spill Procedure: Spilled materials, where dust can be generated, may expose clean-up personnel to respirable dust. Wetting of spilled material and/or use of protective respiratory equipment may be necessary.

Personal Protection Measures:

Eye/face: Wear approved safety glasses. Wear a face shield or full-face respirator when needed to prevent exposure to irritating dusts.

Skin protection: Wear thermal gloves and clothing as needed to prevent burns to skin.

Respiratory protection: When dust in air exceeds the occupational exposure, guidelines wear an approved air purifying or respirator. Wear respirator protection appropriate for protection from dusts containing crystalline silica. A respirator protection program will meet the regulation such as OSHA'S 29 CRF 1910.134, ANSI Z88.2, or CSA standard Z94.4 must be followed when conditions warrant the use of a respirator.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical form:	Solid, gravel pieces, fine sand/powder
Flammability:	N/A
Odour:	Odourless
Melting/freezing point:	N/A
Means of Extinction:	N/A
Boiling point:	N/A
Special Procedures	N/A
Flashpoint (° C) and Method	N/A
Upper Explosion Limit (Percentage by Volume)	N/A
Lower Explosion Limit (Percentage by Volume)	N/A
Autoignition Temperature (° C)	N/A
Hazardous Combustion Products	N/A

EXPLOSION DATA:

Sensitivity to Mechanical Impact	N/A
Sensitivity to Static Discharge	N/A



SECTION 10: STABILITY AND REACTIVITY

Chemical Stability	Yes
Incompatibility to other substances	Strong acids may react vigorously
Reactivity, and Under What Conditions:	Neutralizing agent for strong acids
Hazardous Decomposition Products:	Limestone may react with acidic groundwater-release CO ₂ gas
Conditions to avoid:	Unintentional contact with strong acids.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely route of entry: Skin contact, Eye contact, Inhalation.

Effects of Acute Exposure to Material: Exposure to dust may irritate respiratory system, eyes and skin

Effects of Chronic Exposure to Material:

- 1) Chronic exposure to respirable limestone dust at levels exceeding exposure limits has caused pneumoconiosis.
- 2) Chronic exposure to respirable quartz containing limestone/dolomite dust at levels exceeding exposure limits has caused silicosis, a serious and progressive pneumoconiosis which can be disabling and lead to death. Symptoms appear at any time, even years after exposure has ceased. Symptoms of silicosis 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 through a chest X-ray. Silicosis may aggravate other chronic pulmonary conditions and may increase the risk of pulmonary tuberculosis infection. Smoking aggravates the effects of silica exposure.

LD50 of Material (Specify Species and Route)	N/A
LC50 of Material (Specify Species and Route)	N/A

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: Natural stone not expected to cause adverse effects to the aquatic environment.

Persistence and degradability: Not biodegradable.

Bio accumulative potential: Not Bio accumulative.

Mobility in soil: N/A



SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods:

Re-use clean material or dispose as an inert, non-metallic mineral in accordance with federal, state, provincial and local regulations.

Avoid generating dust during disposal. Avoid contact with eyes, and skin. See section 8 for personal protection measures.

Prevent material from entering sewers and/or drains.

SECTION 14: TRANSPORT INFORMATION

N/A

SECTION 15: REGULATORY INFORMATION

Canada: NSNR Status: Substances are listed on the DSL or are exempt.

SECTION 16: OTHER INFORMATION

Revision date: May 2019

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