SECTION 1. IDENTIFICATION

Product identifier used on the la	abel	
:	Limestone	
Product Code(s) :	N/Ap	
Recommended use of the chem	nical and restrictions on use	
	Construction material Restriction on use: None known Limestone is a naturally occurrin quartz (crystalline silica).	ng mineral complex that contains varying quantities of
Name, address, and telepho of the supplier:	ne number	Name, address, and telephone number of the manufacturer:
Ontario Stone, Sand & Grave (OSSGA)	el Association	Refer to supplier
5720 Timberlea Boulevard, Unit 1 Mississauga, ON, Canada L4W 4W2	03	
Supplier's Telephone # :	647-727-8778	
24 Hr. Emergency Tel # :	Not available.	

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Angular gray, white and tan particles ranging in size from powder to boulders. Odourless.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification Carcinogenicity - Category 1 Specific Target Organ Toxicity, Single Exposure - Category 1 Specific Target organ toxicity, repeated exposure- Category 1

Label elements

Hazard pictogram(s)



DANGER! Hazard statement(s)

nazara etatement(e)

May cause cancer. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust or fume. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification Dust contact with the eyes can lead to mechanical irritation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Common name and synonyms	<u>CAS #</u>	Concentration (% by weight)
Limestone	Calcium carbonate Aragonite	1317-65-3	100.00
Silica, quartz	Quartz silica Crystallized silicon dioxide	14808-60-7	>1

Limestone is a naturally occurring mineral complex that contains varying quantities of quartz (crystalline silica). Limestone may be subjected to various natural or mechanical forces thatproduce small particles (dust) which may contain respirable crystalline silica (particles less than 10 micrometers in aerodynamic diameter). The % concentrations for the above listed chemicals will vary from batch to batch. Concentrations listed represent the actual concentration range for each chemical.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Booonption of mot ala moa	
Ingestion	: Never give anything by mouth if victim is unconscious. Have victim rinse mouth with water, then give one to two glasses of water to drink. If symptoms develop, seek medical attention.
Inhalation	 If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If not breathing, clear airway and start artificial respiration. Seek immediate medical attention/advice.
Skin contact	: Wash affected areas with soap and water. If irritation or symptoms develop, seek medical attention.
Eye contact	: Flush eyes with water for at least 15 minutes while holding eyelids open. If eye irritation persists: get medical advice/attention.
Most important symptoms a	and effects, both acute and delayed
Indication of any immediate	: May cause cancer. Causes damage to the lungs and respiratory system if inhaled. Causes damage to the lungs and respiratory system through prolonged or repeated exposure if inhaled. Repeated or prolonged inhalation of fine dusts may cause severe scarring of the lungs, a disease called silicosis, and alveolar proteinosis (lower lung disease). Symptoms may include coughing, shortness of breath and eventually severe respiratory impairment. Dust contact with the eyes can lead to mechanical irritation. Symptoms may include stinging, tearing, redness and swelling.
indication of any immediate	medical attention and special treatment needed

: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread the fire. Special hazards arising from the substance or mixture / Conditions of flammability : Not flammable. Flammability classification (OSHA 29 CFR 1910.106) : Non-flammable. Hazardous combustion products : None known. Special protective equipment and precautions for firefighters Protective equipment for fire-fighters

	 Firefighters should wear an approved full-face, self-contained breathing apparatus (SCBA) and impervious clothing.
Special fire-fighting proc	edures
	: The product itself does not burn. The area should be evacuated and all personnel kept upwind. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Fight fires from a safe distance. Water spray may be useful in cooling equipment exposed to heat and flame.
SECTION 6. ACCIDEN	TAL RELEASE MEASURES
Personal precautions, pro	tective equipment and emergency procedures
	: Evacuate personnel to safe areas. Restrict access to area until completion of clean-up. All persons dealing with clean-up should wear the appropriate chemically protective equipment. Refer to point 8 on this Safety Data Sheet, EXPOSURE CONTROLS /

PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.
 Environmental precautions : None required under normal conditions.

Methods and material for containment and cleaning up

: Ventilate area of release. Stop the spill at source if it is safe to do so. Avoid dust formation. Vacuum or sweep up using wet methods and place in an appropriate waste disposal container

Special spill response procedures

 If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).

US CERCLA Reportable quantity (RQ): None reported.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Conditions for safe storage	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Use in a well-ventilated area. Do not breathe dust. Avoid contact with eyes, skin and clothing. Keep away from acids and incompatibles. Avoid and control operations which create dust. Keep containers closed when not in use. Wash thoroughly after handling. Store in a cool, dry, well-ventilated area. No smoking in the area. Do not store near
		acids or other incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Protect against physical damage.
Incompatible materials	:	Acids, Aluminum, Oxidizing agents, Reactive metals

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:				
Chemical Name	ACGIH	TLV	<u>OSHA I</u>	PEL
	TWA	<u>STEL</u>	PEL	<u>STEL</u>
Limestone	N/Av	N/Av	15 mg/m³ (total dust); 5 mg/m³ (respirable)	N/Av
Silica, quartz	0.025 mg/m³ (respirable)	N/Av	0.1 mg/m³ (respirable) (final rule limit)	N/Av

Exposure controls

Ventilation and engineering measures

: Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection	:	Respiratory protection is required if the concentrations exceed the TLV. If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised.
Skin protection	:	Wear protective gloves/clothing. Impervious gloves must be worn when using this product. Advice should be sought from glove suppliers.
Eye / face protection	:	Chemical goggles must be worn to prevent dusts from entering the eyes.
Other protective equipment	:	An eyewash station should be made available in the immediate working area. Depending on conditions of use, safety shoes and additional protective clothing may also be necessary.
General hygiene considerati	on	S

: Avoid contact with eyes, skin and clothing.Do not breathe vapours/dust. Do not eat, drink or smoke when using this product. Clean all equipment and clothing, and shower with mild soap and water to remove dusts, at end of each work shift.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Possibility of hazardous reactions

Appearance	: Angular gray, white and tan particles ranging in size from powder to boulders.
Odour	: No odour.
Odour threshold	: N/Av
рН	: N/Av
Melting/Freezing point	: N/Av
Initial boiling point and boilir	ig range
	: N/Av
Flash point	N/Ap
Flashpoint (Method)	: N/Ap
Evaporation rate (BuAe = 1)	•
Flammability (solid, gas)	
Lower flammable limit (% by	
(/////////////////////////////////	: N/Ap
Upper flammable limit (% by	
	: N/Ap
Oxidizing properties	None.
Explosive properties	: Not explosive
Vapour pressure	: N/Av
Vapour density	: N/Av
Relative density / Specific gr	avity
	: 2.4-2.85
Solubility in water	: Insoluble.
Other solubility(ies)	: N/Av
Partition coefficient: n-octan	ol/water or Coefficient of water/oil distribution
	: N/Av
Auto-ignition temperature	: N/Av
Decomposition temperature	: N/Av
Viscosity	: N/Ap (solid)
Volatiles (% by weight)	: N/Av
Volatile organic Compounds	(VOC's)
	: N/Av
Absolute pressure of contain	ier
	: N/Ap
Flame projection length	: N/Ap
Other physical/chemical com	•
· · · · · · · · · · · · · · · · · · ·	: None known or reported by the manufacturer.
SECTION 10. STABILITY A	AND REACTIVITY
Reactivity	: Not normally reactive.
Chemical stability	: Stable under normal conditions.

: Hazardous polymerization does not occur.

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Conditions to avoid	•	Avoid dust formation. Avoid contact with incompatible materials.	

Incompatible materials : Acids; Aluminum; Oxidizing agents; Reactive metals

Hazardous decomposition products

: Respirable crystalline silica-containing dust may be generated. When heated, quartz is slowly transformed into tridymite (above 860°C/1580°F) and cristobalite (above 1470°C/2678°F). Both tridymite and cristobalite are other forms of crystalline silica. Refer to Section 5 for additional 'Hazardous combustion products'.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES

Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption

: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

	••	
Sign and symptoms ingestion	:	Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Contains crystalline silica; prolonged exposure by inhalation of particles can cause serious lung damage, including silicosis. Symptoms may include coughing, shortness of breath and eventually severe respiratory impairment.
Sign and symptoms ingestion	1	
	:	None expected, when used as intended.
Sign and symptoms skin	:	None expected, when used as intended.
Sign and symptoms eyes	:	Dust contact with the eyes can lead to mechanical irritation. Symptoms may include stinging, tearing, redness and swelling.
Potential Chronic Health Effe	ct	
Mutagenicity	:	Repeated or prolonged inhalation of fine dusts may cause severe scarring of the lungs, a disease called silicosis, and alveolar proteinosis (lower lung disease). Symptoms may include coughing, shortness of breath and eventually severe respiratory impairment. Not expected to be mutagenic in humans.
Carcinogenicity	:	This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification Carcinogenic Category 1 May cause cancer. This product contains Crystalline silica - Quartz. Crystalline silica - Quartz is classified as carcinogenic by IARC (Group 1), ACGIH (Group A2), NTP (Group 1) and OSHA (OSHA Select carcinogen).
Reproductive effects & Terato	og	enicity
	:	Not expected to cause reproductive effects.
Sensitization to material	:	Contains no known skin or respiratory sensitizers.
Specific target organ effects	:	This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Specific Target Organ Toxicity, Single Exposure - Category 1 May cause damage to the lungs if inhaled. Specific Target organ toxicity, repeated exposure- Category 1 May cause damage to the lungs through prolonged or repeated exposure if inhaled.
Medical conditions aggravate	d	by overexposure
	:	Pre-existing respiratory disorders.
Synergistic materials	:	None known or reported by the manufacturer.

Limestone SDS Preparation Date (mm/dd/yyyy): 12/28/2018

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Toxicological data	:	There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

	LC50(4hr)	LD	50
Chemical name	<u>inh, rat</u>	<u>(Oral, rat)</u>	(Rabbit, dermal)
Limestone	> 3 mg/L (aerosol) (No mortality)	6450 mg/kg	> 2000 mg/kg (No mortality)
Silica, quartz	N/Av	N/Av	N/Av

Other important toxicological hazards

: None reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : No data is available on the product itself. Not expected to be harmful to aquatic organisms.

Ecotoxicity data:

la ura dia ata	040 N	Toxicity to Fish				
<u>Ingredients</u>	CAS No	LC50 / 96h	NOEC / 21 day	M Factor		
Limestone	1317-65-3	> 100 mg/L (Rainbow trout)	N/Av	None.		
Silica, quartz	14808-60-7	N/Av	N/Av	None.		

Ingredients	CAS No	Toxicity to Daphnia				
		EC50 / 48h	NOEC / 21 day	M Factor		
Limestone	1317-65-3	> 100 mg/L (Daphnia magna)	N/Av	None.		
Silica, quartz	14808-60-7	N/Av	N/Av	None.		

Ingredients	CAS No	No Toxicity to Algae					
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor			
Limestone	1317-65-3	> 14 mg/L/72hr (Green algae)	14 mg/L/72hr	None.			
Silica, quartz	14808-60-7	N/Av	N/Av	None.			

: No data is available on the product itself.

Bioaccumulation potential : No data is available on the product itself.

<u>Components</u>	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
N	No state in such table, and the monotonet the eff	

Mobility in soil : No data is available on the product itself.

Other Adverse Environmental effects

: None known.

SECTION 13. DISPOSAL CONSIDERATIONS

- Handling for Disposal : Handle waste according to recommendations in Section 7.
- Methods of Disposal
- : Dispose in accordance with all applicable federal, state, provincial and local
- regulations.

RCRA

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261.It is the responsibility of the waste generator to determine the proper waste identification and disposal method.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None	Not regulated.	Not regulated	none	\bigotimes
TDG Additional information	None.				
49CFR/DOT	None	Not regulated.	Not regulated	none	\bigotimes
49CFR/DOT Additional information	None.	1	<u> </u>		<u> </u>
	utions for use	r : None reported by the manufacturer.			
Environment	al hazards	 This product does not meet the criteria for an according to the IMDG Code. See ECOLOGIC 			

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA	CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: So 372, Specific To		
	CAS # Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration		
Limestone	1317-65-3	Yes	None.	None.	No	N/Ap	
Silica, quartz	14808-60-7	Yes	None.	None.	No	N/Ap	

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Carcinogenicity; Specific target organ toxicity, single exposure ;Specific target organ toxicity, repeated exposure.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Limestone SDS Preparation Date (mm/dd/yyyy): 12/28/2018

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Limestone	1317-65-3	No	N/Ap	No	Yes	Yes	Yes	Yes	Yes
Silica, quartz	14808-60-7	Yes	Cancer (airborne particles of respirable size)	No	Yes	Yes	Yes	Yes	Yes

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Canadian Information:

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

Canadian Environmental Protection Act (CEPA): All ingredients listed appear on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Limestone	1317-65-3	215-279-6	Present	Present	(1)-122	KE-21996	Present	May be used as a single component chemical under an appropriate group standard.
Silica, quartz	14808-60-7	238-878-4	Present	Present	(1)-548	KE-29983	Present	HSR003125

SECTION 16. OTHER INFORMATION

Legend

:	ACGIH: American Conference of Governmental Industrial Hygienists
	CAS: Chemical Abstract Services
	CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act
	of 1980
	CFR: Code of Federal Regulations
	DOT: Department of Transportation
	DSL: Domestic Substances List
	EPA: Environmental Protection Agency
	IARC: International Agency for Research on Cancer
	Inh: Inhalation
	MA: Massachusetts
	MN: Minnesota
	LC: Lethal Concentration
	LD: Lethal Dose
	N/Av: Not Available
	N/Ap: Not Applicable
	NIOSH: National Institute of Occupational Safety and Health
	NJ: New Jersey
	NTP: National Toxicology Program
	OSHA: Occupational Safety and Health Administration
	PA: Pennsylvania
	PEL: Permissible exposure limit
	RCRA: Resource Conservation and Recovery Act
	RI: Rhode Island
	RTECS: Registry of Toxic Effects of Chemical Substances
	SARA: Superfund Amendments and Reauthorization Act
	STEL: Short Term Exposure Limit
	TDG: Canadian Transportation of Dangerous Goods Act & Regulations
	TLV: Threshold Limit Values
	TSCA: Toxic Substance Control Act

References Preparation Date (mm/dd/yyy Other special considerations	 1. ACGIH, Threshold Limit Biological Exposure Indices 2. International Agency for 3. Canadian Centre for Occ (Chempendium, HSDB and 4. Material Safety Data She 5. US EPA Title III List of Li 6. California Proposition 65 7. OECD - The Global Ports 2018. 12/28/2018 	dous Materials Identification System Values for Chemical Substances and Physical Agents & s for 2018. Research on Cancer Monographs, searched 2018. cupational Health and Safety, CCInfoWeb databases, 2018 I RTECs). eets from manufacturer.
Dramound form	:	
Prepared for: Ontario Stone, Sand & Grave 5720 Timberlea Boulevard, U Mississauga, ON L4W 4W2 Telephone: 647-727-8778		
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