

1. Identification

Product Name: Limestone

Synonyms:

#1 Grit,	Agg OGB Select Material	GFP270C,	Minn. Class 5s,
#3 Grit Coated,	Stone,	GFP7,	OGB,
#3 Grit,	Aggregate Limestone,	GPS 20,	OH-57,
#57 Washed Stone,	Agricultural Stone-Large,	GPS 325,	OH-67,
#57,	Agricultural Stone-Small,	Grade B,	OH-8,
#8's Limestone,	B-10,	Grade F,	OHIO #4,
100 mesh,	Blast Furnace Stone,	Granular A,	OHIO 57's,
100x0,	BOF Stone,	Granular M,	OHIO 8's,
12mx50m,	Calcite #1,	Ground Limestone,	PCC Limestone,
12x50,	Calcite 467,	Guideline Field Marker,	Pellet Flux,
16 m x 100 m,	Calcite 57/2B,	H1,	Pelletized Limestone,
16x100,	Calcite 8/1B,	H2,	Port Inld Screenings,
16x140M,	Calcite,	H3,	Premiacal - Grade F,
16x200,	Calcitic Aglime Dry,	Hi Cal Blast Furnace Stone,	Premiacal 16,
20x0,	Calcitic Aglime,	Hi Cal Fluxing Stone,	Premiacal 20,
20x200,	Camadil 76-325,	Hi Cal Large Sand,	Premiacal 22,
21AA,	Camadil 99-325,	Hi Cal Min. Filler 62/200-BK,	Premiacal 28,
23A,	CM 11,	Hi Cal Min. Filler 75/200-BK,	Premiacal 29,
2A Sub Base,	Commercial Aggregates,	Hi Cal Sinter Flux Stone,	Premiacal,
3" X 6",	Commercial Stone,	Hi Cal Stone,	Pro Pulverized,
5x9M,	Concrete Stone,	Hi Calcium Blast Furnace Flux,	Pro Select,
60x0,	Feed Grade Calcium Bulk,	High Calcium Limestone	Pulverized calcium carbonate,
62/200,	Feed grade HiCal,	HL-3,	Pulverized Limestone,
6AA,	FGD Limestone,	Intermediate Aggregate,	Rock Dust 101 (White),
75-200,	FGD Stone,	Large Fraction,	ROM Stone,
78/200,	G Chemical,	Lut 95-150m,	ROMF,
80/325,	GFP 101,	Manufactured Sand 3-32,	Rotary E2,
85-200,	GFP 101WO,	Manufactured Sand,	Sewer Stone,
8mx20m,	GFP 102 ,	MI-22A,	Sinter Stone,
8x20,	GFP 135,	MI-23A,	Soil Doctor,
90/325,	GFP 200C,	MI-25A,	TMG Hi Cal 325,
90-325,	GFP 250,	MI-31A,	Tri-County 8 Mesh Fertilizer
95-150M,	GFP 250C,	MI-6AA,	Filler,
Ag Lime,	GFP 3,	MI-6AAA,	Tuff Shell HiCal,
Agg #57 Stone,	GFP 325,	Mine Safety Dust,	VDOT Rockfill,
Agg 75,	GFP 60C,		W-10,
			York CA Chips,

Recommended Uses: Mineral filler, Manufacture of lime and lime related products, and aggregate


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Emergency Contact: Infotrac: (800) 535-5053 (24 hrs a day, 7 days a week)

2. Hazards Identification

GHS classification	Physical Hazards	None							
	Health Hazards	<table border="0"> <tr> <td>Skin irritation</td> <td>Category 3</td> </tr> <tr> <td>Eye irritation</td> <td>Category 2B</td> </tr> <tr> <td>Carcinogenicity</td> <td>Category 1A</td> </tr> <tr> <td>Specific Target Organ Toxicity – Repeated Exposure</td> <td>Category 1</td> </tr> </table>	Skin irritation	Category 3	Eye irritation	Category 2B	Carcinogenicity	Category 1A	Specific Target Organ Toxicity – Repeated Exposure
Skin irritation	Category 3								
Eye irritation	Category 2B								
Carcinogenicity	Category 1A								
Specific Target Organ Toxicity – Repeated Exposure	Category 1								
GHS Label Elements:	Signal Word:	Danger							
	Hazard Statements:	<p>Causes mild skin irritation</p> <p>Causes eye irritation</p> <p>May cause cancer through inhalation</p> <p>Causes damage to lungs through prolonged or repeated exposure by inhalation</p>							
	Precautionary Statements:	<p>Obtain special instructions before use.</p> <p>Do not handle until all safety precautions have been read and understood.</p> <p>Do not breathe dust.</p> <p>Wash thoroughly after handling.</p> <p>Use personal protective equipment as required</p> <p>Do not eat, smoke or drink when using this product</p>							
	Pictograms:								

3. Composition

<u>Chemical name</u>	<u>% by weight</u>	<u>CAS#</u>
Calcium carbonate	90+	1317-65-3
Magnesium carbonate	< 5	546-93-0
Silica-crystalline quartz	< 2	14808-60-7

4. First Aid Measures

- Eyes:** Flush victim's eyes thoroughly with large quantities of water, including under eye lids. Get medical attention if irritation persists.
- Skin:** Remove dusty clothing. Wash skin thoroughly with soap and water. Launder clothing before re-use. Get medical attention if irritation persists.
- Ingestion:** Get medical attention if a large amount is swallowed.
- Inhalation:** Remove victim to fresh air. If symptoms persist or breathing is difficult, get medical attention.
- Most Important Symptoms:** Eye and respiratory irritation due to exposure to dust.
- Immediate medical attention / special treatment?** No immediate medical attention anticipated.

5. Fire Fighting Measures

- Suitable (and unsuitable) fire extinguishing media:** Use extinguishing media appropriate for surrounding conditions.
- Specific hazards arising from the product** Decomposes at 950 °C to produce calcium oxide and magnesium oxide.
- Special protective equipment and precautions for fire fighters** Dust that becomes wet may cause surfaces to be extremely slippery and cause a slip hazard.

6. Accidental Release Measures

Personal precautions, protective equipment, emergency procedures:

Avoid eye and skin contact. Avoid generating airborne dust. Wear appropriate clothing to prevent skin contact. Wearing of standard SCBA should be adequate to protect against inhalation of dust.

Methods and materials for containment and clean up:

Utilize cleanup methods that minimize generating dust: vacuum. Avoid dry sweeping. Water may be used to control dust, but wet dust can be very slippery and result in a slip hazard. Residue on surfaces may be removed with water or vinegar.

7. Handling & Storage

- Safe Handling:** Avoid skin and eye contact. Avoid generating airborne dust. An eye wash station should be readily available when this product is handled.
- Safe Storage:** Store in dry, well ventilated areas, away from incompatible materials.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits

	OSHA PEL (mg/m ³)	ACGIH TLV (mg/m ³)	Ont. Reg. 833 TWA EV (mg/m ³)
Calcium carbonate	15 5 (respirable)	10	10
Magnesium carbonate	15 5 (respirable)	10	10
Silica, <i>crystalline quartz, cristobalite and tridymite</i>	0.05 (respirable)	0.025 (respirable)	0.1

Engineering Controls: Use with adequate general or local exhaust ventilation and to maintain exposure below occupational exposure limits.

Individual Protection Measures (Personal Protective Equipment):

Specific Eye / Face Protection:	In windy conditions, or if work activity generates elevated airborne dust levels, dust proof or chemical goggles are recommended.
Specific Skin Protection:	When prolonged skin contact is likely to occur, wear appropriate clothing and gloves.
Specific Respiratory Protection:	If exposure limits are exceeded, an approved particulate respirator, or supplied air respirator, appropriate for the airborne concentrations, should be used. Selection and use of the respiratory protective equipment must be in accordance with applicable regulations and good industrial hygiene practices.

9. Physical & Chemical Properties

Appearance:	Solid, white or grey powder or stone	
Odor:	Odorless	
Odor threshold:	Not Applicable	
pH:	9.4 in saturated water solution at 25 °C (77 °F)	
Melting Point/Freezing Point:	950 °C (1742 °F)	
Boiling Point and range:	2850 °C (5162 °F)	
Flash Point:	Not Applicable	
Evaporation Rate:	Not Applicable	
Flammability:	Not Available	
Upper/lower flammability or explosive limits	Not Applicable	
Vapor pressure/density:	Non Volatile	

Relative density:	2.7
Solubility:	Slightly soluble in water: 0.013 g/L at 18 °C
Partition coefficient: n-octanol/water	Not Applicable
Auto-ignition temperature:	Not Available
Decomposition temperature:	950 °C (1742 °F)
Viscosity:	Not Applicable

10. Stability & Reactivity

Reactivity:	Dissolves in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.
Chemical stability:	Stable under normal storage and handling conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	Extremely high or low temperatures. Incompatible materials.
Incompatibility:	Hydrofluoric acid. Strong oxidizers.
Hazardous decomposition products:	Calcium oxide.

11. Toxicological Information

Likely routes of exposure & symptoms:

Eyes:	Exposure to pulverized dust may cause irritation
Skin:	Exposure to pulverized dust may cause dryness and irritation
Ingestion:	No adverse effects expected for normal, incidental ingestion. If a large amount is swallowed, may cause gastrointestinal irritation, discomfort and blockage.
Inhalation:	Exposure to pulverized dust may cause irritation in nose, throat and lungs
Chronic health effects:	This product contains trace amounts of crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica can cause silicosis, as serious lung disease.
Respiratory or skin sensitization:	This material is not known to cause sensitization
Germ cell mutagenicity:	No data available.

Carcinogenicity:	This product is not listed as carcinogenic by OSHA, IARC, NTP, ACGIH, or the EU Directives. This product may contain trace amounts of crystalline silica quartz which is listed by IARC as "Carcinogenic to Humans" (Group 1) and "Known to be a Human Carcinogen" by NTP.
Reproductive toxicity:	No Data Available.
Numerical Measures of Toxicity	Crystalline Silica: Oral Rate LD ₅₀ > 22,500 mg/kg

12. Ecological Information

Because of the elevated pH of this product, it might be expected to produce some ecotoxicity upon exposure to certain aquatic organisms and aquatic systems in high concentrations. This material shows no bioaccumulation effect or food chain concentration toxicity.

13. Disposal Considerations

Dispose of contents in accordance with federal, state, provincial and local regulations.

14. Transport Information

This product is not classified as a hazardous material under US DOT or Canadian TDG regulations.

15. Regulatory Information

CERCLA Hazardous Substances	Not listed
SARA Toxic Chemical (40 CFR 372.65)	Not listed
SARA Section 302 Extremely Hazardous Substances (40 CFR 355)	Not listed
SARA 311/312	Not listed
SARA Section 313 Toxic Chemicals reporting requirements	none
Threshold planning quantity (TPQ)	Not listed
RCRA Hazardous Waste Classification (40 CFR 261)	Not Classified
EPA Toxic Substances Control Act (TSCA) Status	The components of this product are each listed on the TSCA Inventory List in the "active" status.
California Proposition 65	Airborne crystalline silica particulates of respirable size are known to the State of California to cause cancer.
NFPA ratings	Health: 1 Fire: 0 Reactivity: 0
HMIS Ratings	Health: 1 Fire: 0 Reactivity: 0 Personal protection: A
OSHA Specifically regulated substance (29 CFR 1910)	Not listed
OSHA Air contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A)	Listed
MSHA	Not listed

Canada DSL

Listed

Canadian WHMIS Classification

D2A, Materials Causing other toxic effects.



Canada CPR

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation of Canada and this SDS contains all the required information.

16. Other Information

List of GHS Hazard Statements:
 H316: Causes mild skin irritation
 H320: Causes eye irritation
 H350: May cause cancer by inhalation
 H372: Causes damage to lungs through prolonged or repeated exposure by inhalation.

List of GHS Precautionary Statements:
 P201: Obtain special instructions before use.
 P202: Do not handle until all safety precautions have been read and understood.
 P260: Do not breathe dust.
 P264: Wash hands thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P281: Use personal protective equipment as required

Abbreviations

CERCLA	Comprehensive Environmental Response, Compensation and Liability Act	RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act	IARC	International Agency for Research on Cancer
NTP	National Toxicology Program		

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