



Safety Data Sheet

Material Name: Modified Pelletized Limestone

Synonyms: Limestone Pellets, Pelletized Limestone, Pelletized Lime, Pellet Lime, Calcitic Pellets with Polyhydroxy Organic Acid Salt, Cal Turf, Cal Turf Pro, Mag Turf Pro, Dolomitic Pellets with Polyhydroxy Organic Acid Salt

*** Section 1 - Product and Company Identification ***

Manufacturer Information
OLDCASTLE LAWN & GARDEN

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Lee, MA 01238
Phone: 413-243-0053
www.oldcastle.com

550 South Biesecker Road
Thomasville, PA 17464
Phone: 717-792-8513

647 Circle Drive
Castlewood, VA 24224
Phone: 800-937-8663

*** Section 2 - Hazards Identification ***

GHS Classification:

Acute Toxicity Oral - Category 4
Skin Corrosion/Irritation - Category 3
Eye Damage/Irritation - Category 2B
Carcinogenicity- Category 1A (due to inhalation of quartz containing dust)
Specific Target Organ Toxicity Repeat Exposure - Category 1(due to inhalation of quartz containing dust)

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

Danger

Hazard Statements

Harmful if swallowed.
Causes skin and eye irritation.
May cause cancer (due to inhalation of quartz containing dust).
Causes damage to organs (lungs) through prolonged or repeated exposure.

Precautionary Statements

Prevention

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

Safety Data Sheet

Material Name: Modified Pelletized Limestone

Response

If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth.

If on skin: Wash with plenty of pH-neutral soap or a mild detergent and water. If skin irritation occurs: Get medical advice/attention.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage

Store in an appropriate container or containment structure.

Disposal

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

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
1317-65-3	Limestone/Dolomite CaCO ₃ : 50%-87% MgCO ₃ : 5%-40%	≤97
8061-53-8 8061-51-6	Ammonium Lignosulfonate Sodium Lignosulfonate	3-5
Non-Hazardous Ingredient	Polyhydroxy Organic Acid Salt (NA-PHOA)- Proprietary non-toxic	2
14808-60-7	Quartz	≤3

Component Information/Information on Non-Hazardous Components

General Product Information

Trace Elements: These materials are mined from the earth. Trace amounts of naturally occurring elements might be detected during chemical analysis of these materials.

*** Section 4 - First Aid Measures ***

First Aid: Eyes

In case of contact, do not rub or scratch your eyes and immediately flush eyes thoroughly with water, occasionally lifting the lower and upper lids. Call physician if irritation persists or later develops.

First Aid: Skin

Wash with pH neutral soap or a mild detergent and cool water. Call physician if irritation persists or later develops.

First Aid: Ingestion

Do not induce vomiting. If conscious give person 1 to 2 glasses of water. If vomiting occurs spontaneously, lower head to avoid aspiration into lungs. Seek medical attention immediately.

First Aid: Inhalation

Remove to fresh air. Seek medical help if coughing and other symptoms do not subside.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

None

Hazardous Combustion Products

None

Safety Data Sheet

Material Name: Modified Pelletized Limestone

Extinguishing Media

Use appropriate extinguishing media for surrounding fire.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Firefighters should wear protective gear.

*** Section 6 - Accidental Release Measures ***

Recovery and Neutralization

Avoid handling procedures which disperse dust. Dust may contain free crystalline silica.

Materials and Methods for Clean-Up

Use water/wet methods whenever mixing materials or cleaning up a spill of the material.

Emergency Measures

None.

Personal Precautions and Protective Equipment

Wear appropriate protective equipment and clothing during clean-up.

Environmental Precautions

Material is a natural mineral product and will not cause adverse effects to the water system.

Prevention of Secondary Hazards

None

*** Section 7 - Handling and Storage ***

Handling Procedures

Avoid dust contact with eyes. Wear the appropriate eye protection against dust. Minimize dust generation and accumulation. Avoid breathing dust. Wear the appropriate respiratory protection against dust in poorly ventilated areas and if TLV is exceeded. Use good safety and industrial hygiene practices.

Storage Procedures

Store in a closed container in a ventilated area away from sources of heat, moisture and incompatible materials.

Incompatibilities

Acids react violently to produce heat.

*** Section 8 - Exposure Controls / Personal Protection ***

Component Exposure Limits

Limestone (1317-65-3)

OSHA: 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)

NIOSH: 10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable dust)

Quartz (14808-60-7)

ACGIH: 0.025 mg/m³ TWA (respirable fraction)

NIOSH: 0.05 mg/m³ TWA (respirable dust)

Engineering Measures

Use local exhaust or general dilution ventilation to control exposure within applicable limits.

Safety Data Sheet

Material Name: Modified Pelletized Limestone

Personal Protective Equipment: Respiratory

Avoid actions that cause dust exposure to occur. Use local or general ventilation to control exposures below applicable exposure limits. NIOSH or MSHA approved particulate filter respirators should be used in the context of respiratory protection program meeting the requirements of the OSHA respiratory protection standard [29 CFR 1910.134] to control exposures when ventilation or other controls are inadequate or discomfort or irritation is experienced. Respirator and/or filter cartridge selection should be based on American National Standards Institute (ANSI) Standards Z88.2 Practices for Respiratory Protection.

Personal Protective Equipment: Hands

Where prolonged exposure to products might occur, wear impervious gloves to eliminate skin contact.

Personal Protective Equipment: Eyes

When engaged in activities where ingredients could contact the eye, wear safety glasses with side shields or goggles. In extremely dusty environments and unpredictable environments, wear unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when working with ingredients.

Personal Protective Equipment: Skin and Body

Normal work clothing (long sleeved shirts and long pants) is recommended.

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Brown	Odor:	Binder may have a slight scent (lignin)
Physical State:	Porous	pH:	7-9 (in water)
Vapor Pressure:	Not Applicable	Vapor Density:	Not Applicable
Boiling Point:	Not Applicable	Melting Point:	Not Applicable (Limestone)
Solubility (H ₂ O):	Negligible	Specific Gravity:	150-200 C (PHOA)
	Binder (Lignin)-High		2.55-2.85
	PHOA (High)		
Evaporation Rate:	Not Applicable	VOC:	Not Applicable
Octanol/H ₂ O Coeff.:	Not Applicable	Flash Point:	None
Flash Point Method:	Not Applicable	Upper Flammability Limit (UFL):	None
Lower Flammability Limit (LFL):	None	Burning Rate:	None
Auto Ignition:	None		

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

Contact with incompatibles.

Incompatible Products

Acids react violently to produce heat. Materials to avoid include: powerful oxidizing agents such as fluoride, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride. Contact with these materials may cause fire and/or explosions. Silica dissolves in hydrofluoric acid producing a corrosive gas-silicon tetrafluoride.

Hazardous Decomposition Products

None. Silica-containing respirable dust particles may be generated by handling.

Safety Data Sheet

Material Name: Modified Pelletized Limestone

*** Section 11 - Toxicological Information ***

Acute Toxicity

Component Analysis - LD50/LC50

Quartz (14808-60-7)

Oral LD50 Rat 500 mg/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness

Exposure to granular material could cause skin abrasion.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

Dust can cause mechanical irritation of eyes. Possible destruction of eye tissue if dust is not washed from the eye.

Potential Health Effects: Ingestion

This product can cause gastrointestinal irritation if large quantities are ingested.

Potential Health Effects: Inhalation

Exposure to dust generated during the handling or use of the product may irritate eyes, skin, nose, throat and upper respiratory tract.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any sensitization effects.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects.

Carcinogenicity

A: General Product Information

May cause cancer if dust is inhaled.

Exposures to respirable crystalline silica are not expected during the normal use of this product. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease and/or lung cancer. IARC states that crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).

B: Component Carcinogenicity

Quartz (14808-60-7)

ACGIH: A2 - Suspected Human Carcinogen

NIOSH: potential occupational carcinogen

NTP: Known Human Carcinogen (respirable size) (Select Carcinogen)

IARC: Monograph 100C [2012] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources); Monograph 68 [1997] (Group 1 (carcinogenic to humans))

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any single exposure specific target organ toxicity effects.

Specified Target Organ General Toxicity: Repeated Exposure

Causes damage to organs (lungs) through prolonged or repeated exposure.

Safety Data Sheet

Material Name: Modified Pelletized Limestone

Aspiration Respiratory Organs Hazard

This product is not reported to have any aspiration hazard effects.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

This product is not reported to have any ecotoxicity effects.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

Persistence/Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility in Soil

No information available for the product.

*** Section 13 - Disposal Considerations ***

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

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

*** Section 14 - Transportation Information ***

DOT Information

Shipping Name: Not Regulated

*** Section 15 - Regulatory Information ***

Regulatory Information

US Federal Regulations

Component Analysis

None of this product's components is listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Limestone	1317-65-3	No	Yes	Yes	Yes	Yes	No
Quartz	14808-60-7	No	Yes	Yes	Yes	Yes	No

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

Safety Data Sheet

Material Name: Modified Pelletized Limestone

WARNING! This product contains chemicals (crystalline quartz) known to the state of California to cause cancer, birth defects, or other reproductive harm.

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Quartz	14808-60-7	1 %

Additional Regulatory Information

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Limestone	1317-65-3	Yes	NDSL	EINECS
Quartz	14808-60-7	Yes	DSL	EINECS

*** Section 16 - Other Information ***

Hazardous Material Information System (HMIS):	Health	1
	Flammability	0
	Physical Hazard	0
	Personal Protection	B

NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
Protective Equipment: Safety glasses, gloves

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration, NJTSR = New Jersey Trade Secret Registry.

Literature References

None

Safety Data Sheet

Material Name: Modified Pelletized Limestone

Other Information

This product should only be used by knowledgeable persons. While the information provided in this safety data sheet is believed to provide a useful summary of the hazards relating to this product this product as it is commonly used, the sheet cannot anticipate and provide all of the information that might be needed in every situation. Inexperienced product users should obtain proper training before using this product.

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