

Limestone - High Calcium

SDS Number: USA-004

Revision Date: 8/9/2019

Page 1 of 6

1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer		Vendor	
Midwest Calcium Carbonates 7925 S State Road 243 Cloverdale, Indiana 46120		Midwest Calcium Carbonates 7925 S State Road 243 Cloverdale, Indiana 46120	
Contact:	Laurie Webb	Contact:	Laurie Webb
Phone:	317-874-4928	Phone:	317-874-4928
Fax:	317-875-5673	Fax:	317-875-5673
Email:	lwebb1@usagg.com	Email:	lwebb1@usagg.com
Web:	www.usagg.com	Web:	www.usagg.com
Emergency:	Laurie Webb: 317-767-4694 (cell)	Emergency:	Laurie Webb: 317-767-4694 (cell)

Product Identifier:	Limestone - High Calcium
Common Name:	Limestone
SDS Number:	USA-004
Revision Date:	8/9/2019
Chemical Family:	Calcium and Magnesium Carbonate
Product Use:	High Calcium product used as inert filler for plastics, rubber and building products, coal mine rock dust, glass pH adjustment, aglime and other agricultural purposes and animal nutrition. Please note this list may not be exhaustive.
Instructions:	For Information Call: 317-434-4600

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):
Health, Carcinogenicity, 2

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:



GHS Hazard Statements:

H351 - Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

GHS Precautionary Statements:

- P261 - Avoid breathing dust.
- P264 - Wash hands and face thoroughly after handling.
- P280 - Wear protective eye protection.
- P284 - [In case of inadequate ventilation] wear respiratory protection.
- P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P302 + P352 - If on skin: Wash with plenty of water.
- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Route of Entry:	Inhalation
Target Organs:	Respiratory system
Inhalation:	Inhaling respirable dust may aggravate existing respiratory system disease(s) and/or dysfunctions.

Limestone - High Calcium

SDS Number: USA-004

Revision Date: 8/9/2019

Page 2 of 6

RESPIRABLE CRYSTALLINE SILICA (QUARTZ):

This limestone may contain an amount of respirable crystalline silica.

ACGIH TLV: 0.05 mg/m³
 MSHA and OSHA PEL: 10/(%SiO₂ + 2) mg/m³
 MSHA and OSHA proposed PEL: 0.1 mg/m³

WARNING

AVOID BREATHING DUST FROM THIS PRODUCT

This product contains crystalline silica. Prolonged and repeated breathing of crystalline silica dust can cause a progressive lung disease called silicosis.

Also, some researchers have reported that there is evidence that prolonged and repeated breathing of crystalline silica dust may cause lung cancer.

Either silicosis or lung cancer can result in permanent injury or death.

Skin Contact:

Exposure to dust may aggravate skin conditions.

Eye Contact:

Exposure to dust may aggravate eye conditions or cause irritation.

Ingestion:

No ill effects known for ingestion.

3 COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Ingredients:		
CAS#	%	Chemical Name:
1317-65-3	95-99%	Calcium Carbonate (CaCO ₃)
1309-37-1	<1%	Iron oxide (Fe ₂ O ₃)
14808-60-7	<1%	Silica, Crystalline
546-93-0	<1%	Magnesite
1344-28-1	<0.1%	Aluminum oxide (Al ₂ O ₃)

Magnesite is also known as Magnesium Carbonate.

Component ranges all vary naturally.

4 FIRST AID MEASURES

- Inhalation:** Dust may irritate the nose, throat, and respiratory tract by mechanical abrasion. Coughing, sneezing, and shortness of breath may occur following exposures in excess of appropriate exposure limits. Move to fresh air. If breathing is difficult give oxygen and seek medical attention.
- Skin Contact:** Wash skin with soap and water.
- Eye Contact:** Do not rub eyes. Contact with dust may cause irritation by mechanical abrasion. Irrigate eyes immediately with clean water. Obtain medical attention if necessary.
- Ingestion:** If significant - obtain medical attention. Do not induce vomiting.
- Physician: Treat symptomatically.

5 FIRE FIGHTING MEASURES

Flammability: Non-flammable inert material.

Suitable Extinguishing Media: Non-flammable.
 Extinguishing media to avoid: No specific information.
 Hazards of concern: No specific information.
 Advice for fire-fighters: Standard personal protective equipment.

Limestone - High Calcium

SDS Number: USA-004

Revision Date: 8/9/2019

Page 3 of 6

6	ACCIDENTAL RELEASE MEASURES
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Spilled material should not cause any environmental harm except that respirable dust may be generated. Consider the use of wetting or other air emission controls to control the generation and exposure to dust.

7	HANDLING AND STORAGE
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Handling Precautions: Minimize fugitive dust in work place and handle carefully with adequate ventilation.

Wear dust mask when exposure is high. Use appropriate eye protection and tight fitting goggles if wearing contact lenses. Exposure skin may become dry and irritated with prolonged contact. Avoid contact with food and ingestion.

Respirable dust may be generated during processing, handling, and storage. Engineering controls such as wetting, dust suppression, ventilation, process enclosure, enclosed employee work stations, etc. should be used to keep dust emissions below the appropriate PEL. Respirable dust levels should be monitored regularly.

Storage Requirements: Keep product dry.

8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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Engineering Controls: Eye Wash - Ensure that eye wash stations are close to the workplace location.
 Exposure - Evaluate degree of exposure and use PPE as necessary.
 Ventilation - Local exhaust or ventilation adequate to reduce exposure below appropriate limits.
 Other - Respirable dust and quartz levels should be monitored regularly. Dust and quartz levels in excess of appropriate exposure limits should be reduced by all feasible engineering controls, including (but not limited to) wet suppression, ventilation, process enclosed workstations.

Personal Protective Equipment: Eye Protection - ANSI, CSA, or ATM approved glasses and goggles. Dust goggles should be worn if excessive emissions are present and wearing contact lenses.
 Respiratory Protection - Follow OSHA respirator guidelines found in 29 CFR 1910.134 or European Standard EN 149, use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
 Hand Protection - No special requirements. Wear gloves to protect skin.
 Skin protection - No special requirements. Appropriate clothing to minimize contact.
 Footwear - No special requirements.
 Hygiene - Wash dust-exposed skin with soap and water before eating, drinking, smoking, and using toilet facilities. Wash work clothes after each use.

CALCIUM CARBONATE:

OSHA PEL:	15 mg/m ³ (total dust) TWA,	5 mg/m ³ (respirable fraction) TWA
MSHA PEL:	15 mg/m ³ (total dust) TWA,	5 mg/m ³ (respirable fraction) TWA
NIOSH REL:	10 mg/m ³ (total dust) TWA,	5 mg/m ³ (respirable fraction) TWA
ACGIH TLV:	TLV Withdrawn	

RESPIRABLE CRYSTALLINE SILICA (QUARTZ):
 This limestone may contain an amount of respirable crystalline silica.

MSHA and OSHA PEL:	0.1 mg/m ³ TWA
NIOSH REL:	0.05 mg/m ³ TWA
ACGIH TLV:	0.025 mg/m ³ TWA

Limestone - High Calcium

SDS Number: USA-004

Revision Date: 8/9/2019

Page 4 of 6

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid	Odor:	None
Odor Threshold:	NA	Molecular Formula:	CaCO ₃
Spec Grav./Density:	2.650 - 2.75	Solubility:	0.00066g/100g water
Viscosity:	NA	Percent Volatile:	None
pH:	8.5 - 9.4	Flash Point:	NA
Decomp Temp:	600 - 870 C	Bulk Density:	200 - 300 kg/m ³

Color: White-gray
 Stability: Very stable
 Flammability: Non-flammable
 Explosivity: Non-explosive

10 STABILITY AND REACTIVITY

Reactivity:	Reacts with acid to form Carbon Dioxide (CO ₂).
Chemical Stability:	Stable under normal conditions.
Materials to Avoid:	Avoid contact with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride may cause fire and/or explosions. Silica dissolves ready in hydrofluoric acid producing a corrosive gas - silicon tetrafluoride.
Hazardous Decomposition:	Calcium oxide will form at high sustained temperatures. Limestone ignites on contact with fluorine and is incompatible with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride and oxygen difluoride yielding possible fire and/or explosions. Silica dissolves ready in hydrofluoric acid producing a corrosive gas - silicon.

11 TOXICOLOGICAL INFORMATION

In October 1996, an IARC working group reassessing crystalline silica, a component of this product, designated crystalline silica as a carcinogen. (Group 1).

Chronic exposure to respirable quartz containing limestone dust in excess of appropriate PELs has caused silicosis, a progressive pneumoconiosis. Not all individuals with silicosis will exhibit symptoms or signs of the disease. However, silicosis is progressive, and symptoms can appear at any time, even years after exposures have ceased. Symptoms of silicosis may include (but not limited to): shortness of breath, reduction in lung volume, right heart enlargement and/or failure. Persons with silicosis have an increased risk of pulmonary tuberculosis infection. Crystalline silica, a component of this product, has been designated by IARC as Group 1, a substance known to cause cancer in humans.

Limestone is not listed as a carcinogen on the NTP, IARC, or OSHA lists of carcinogens.

12 ECOLOGICAL INFORMATION

- Toxicity** - Aquatic toxicity foreseeable as non-relevant.
- Persistence and Degradability** - No relevant information available.
- Ecological Information** - Non-biodegradable but soluble in weak acid.
- Bioaccumulative Potential** - No further relevant information available.
- Mobility in Soil** - No further relevant information available.
- Additional Information - Product generally considered non-hazardous as a water pollutant.
- PBT and vPvB Assessment** - Not applicable.
- Marine Pollutant** - Not Classified.
- Other Adverse Effects** - No further relevant information available.

Limestone - High Calcium

SDS Number: USA-004

Revision Date: 8/9/2019

Page 5 of 6

13

DISPOSAL CONSIDERATIONS

Spillage generating dust may expose cleanup personnel to respirable crystalline silica. Wetting of spilled material and/or use of respiratory protective equipment may be necessary. Do not dry sweep material without PPE. Prevent spilled materials from inadvertently entering streams, drains, or sewers.

Recover in dry state if possible and minimize airborne dispersion. Reuse clean or uncontaminated materials. Dispose of waste materials in accordance with applicable federal, state and local laws and regulations.

14

TRANSPORT INFORMATION

This product is not a hazardous material as defined by the U.S. Department of Transportation.

Limestone is classified as a non-hazardous material by the Canadian Transportation of dangerous Good (TDG) Regulations and the US Department of Transportation (DOT).

EU Transportation: Road (ADR); Rail(RID); Sea (IMDG); Air (ICO/IATA) - Not Restricted.

International Maritime Dangerous Goods (IMDG Code) - Not classified.

Transport in Bulk EU Annex II if MARPOL73/78 and the IBC Code - Not applicable.

Limestone - High Calcium

SDS Number: USA-004

Revision Date: 8/9/2019

Page 6 of 6

15	REGULATORY INFORMATION
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[%] RQ (CAS#) Substance - Reg Codes

[95-99%] Calcium Carbonate (CaCO₃) (1317-65-3) MASS, OSHAWAC, PA, TSCA, TXAIR

[<1%] Iron oxide (Fe₂O₃) (1309-37-1) MASS, OSHAWAC, PA, TSCA, TXAIR

[<1%] Silica, Crystalline (14808-60-7) MASS, NRC, OSHAWAC, PA, PROP65, TSCA, TXAIR

[<1%] Magnesite (546-93-0) MASS, OSHAWAC, TSCA, TXAIR

[<0.1%] Aluminum oxide (Al₂O₃) (1344-28-1) MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR



WARNING

This product can expose you to chemicals including Silica, Crystalline, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Regulatory Code Legend

- MASS = MA Massachusetts Hazardous Substances List
- OSHA = OSHA Workplace Air Contaminants
- PA = PA Right-To-Know List of Hazardous Substances
- TSCA = Toxic Substances Control Act
- TXAIR = TX Air Contaminants with Health Effects Screening Level
- NRC = Nationally Recognized Carcinogens
- PROP65 = CA Prop 65
- NJHS = NJ Right-to-Know Hazardous Substances
- SARA313 = SARA 313 Title III Toxic Chemicals

TSCA/DSL: Listed under CAS 1317-65-3 Exempt from DSL and naturally occurring.

CONEG: Materials used to manufacture packaging are CONEG compliant.

CWA: Not considered to be a water pollutant.

WASET: Waste is not subject to RCRA and acceptable at landfills as a "solid waste". Product can often be beneficially reused or recycled or other purposes.

SPILLS: Sweep up spillage in dry form where possible.

OSHA: Labeling required under OSHA Hazard Communication standard [29 CFR 1910.1200 (f)] and other applicable state and local laws and regulations.

PROP 6: WARNING: This product MAY contain chemical(s) known to the state of California to cause cancer.

NAFTA: Product qualifies under HS Tariff No 2521.00 as 100% US Origin, Preference Criteria A.

EU Directive: Not classified as hazardous for supply (1999/45/EC)

16	OTHER INFORMATION
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Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

U.S. Aggregates, Inc.

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