

## SAFETY DATA SHEET "LIMESTONE & DOLOMITE"

### Section 1: PRODUCT AND COMPANY INFORMATION

**Product Name(s):** CONSOLIDATED MATERIALS LIMESTONE & DOLOMITE

**Product Identifiers:** Limestone, Dolomite, Dolostone, Carbonate Rock, Calcium Carbonate, Aggregates, Crushed Stone, Crushed Rock, Crushed Run, Gravel, Manufactured Sand, Concrete Sand, Asphalt Sand, Mason Sand, Fill Sand, Golf Course Sand, Base Material, Dense Graded Aggregate

<b>Manufacturer</b>	<b>Information Telephone Number</b>	<b>EMERGENCY PHONE NUMBER</b>
Consolidated Materials, Inc.	847-658-4342 7AM-5PM STD	1-800-451-8346 (3E HOTLINE)
1320 S. Virginia Road Crystal Lake IL, 60014		911 LOCAL

**Product Use:** Limestone and Dolomite are used in the manufacture of bricks, mortar, cement, concrete, plasters, paving materials, and other construction applications. Limestone and Dolomite are distributed in bags, totes and bulk shipment.

Do NOT use this product for abrasive blasting. This material safety data sheet and the information contained herein were not developed for abrasive blasting.

**Note:** This MSDS covers many types of Limestone and Dolomite. Individual composition of hazardous constituents will vary between types of Limestone and Dolomite.




### Section 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Percent (By Weight)	CAS Number	OSHA PEL -TWA (mg/m <sup>3</sup> )	ACGIH TLV-TWA (mg/m <sup>3</sup> )	LD <sub>50</sub>	LC <sub>50x</sub>
Calcium Carbonate*	50-100	1317-65-3	15 (T), 5 (R)	10 (T)	NA	NA
Magnesium Carbonate*	0-50	546-93-0	15 (T), 5 (R)	3 (R); 10 (T)	NA	NA
Crystalline Silica as Quartz)	0-15	14808-60-7	[(10) / (%SiO <sub>2</sub> +2)] (R); [(30) / (%SiO <sub>2</sub> +2)] (T)	0.025 (R)	NA	NA
Particulate Not Otherwise Regulated	-	NA	5 (R) 15 (T)	3 (R); 10 (T)	NA	NA

Note: Exposure limits for components noted with an \* contain no asbestos and <1% crystalline silica

See Section 9 for information on the mineral composition of Limestone and Dolomite.

### Section 3: HAZARD IDENTIFICATION

	<b>WARNING</b>	 Respiratory Protection  Eye Protection
	<p>Toxic - Harmful by inhalation. (Contains crystalline silica)</p> <p><b>DO NOT</b> use for Abrasive Blasting.</p> <p>Use proper engineering controls, work practices, and Personal Protective Equipment (PPE) to prevent exposure to dust.</p> <p>Read MSDS for details.</p>	

**Emergency Overview:** Limestone and Dolomites are an odorless, angular grey, white, and tan particles ranging in size from a powder to boulders. They are not combustible or explosive. A single, short-term exposure to Limestone and Dolomite presents little or no hazard.

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### **Section 3: HAZARD IDENTIFICATION (continued)**

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#### **Potential Health Effects:**

- Eye Contact:** Eye contact to airborne dust may cause immediate or delayed irritation or inflammation. Eye exposures require immediate first aid and medical attention to prevent significant damage to the eye.
- Skin Contact:** Limestone and Dolomite may cause dry skin, abrasions, discomfort, and irritation.
- Inhalation (acute):** Breathing dust may cause nose, throat or lung irritation, including choking, depending on the degree of exposure.
- Inhalation (chronic):** Risk of injury depends on duration and level of exposure.
- Silicosis: This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a seriously disabling and fatal lung disease. See Note to Physicians in Section 4 for further information.
- Carcinogenicity: Crystalline silica is classified by IARC and NTP as a known human carcinogen.
- Autoimmune Disease: Some studies show that exposure to respirable crystalline silica (without silicosis) or that the disease silicosis may be associated with the increased incidence of several autoimmune disorders such as scleroderma (thickening of the skin), systemic lupus erythematosus, rheumatoid arthritis and diseases affecting the kidneys.
- Tuberculosis: Silicosis increases the risk of tuberculosis.
- Renal Disease: Some studies show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.
- Ingestion:** Do not ingest Limestone and Dolomite. Ingestion of small quantities of Limestone and Dolomite is not known to be harmful; ingesting large quantities can cause intestinal distress.
- Medical Conditions Aggravated by Exposure:** Individuals with lung disease (e.g. bronchitis, emphysema, COPD, pulmonary disease) can be aggravated by exposure.

### **Section 4: FIRST AID MEASURES**

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- Eye Contact:** Rinse eyes thoroughly with water for at least 15 minutes, including under lids, to remove all particles. Seek medical attention for abrasions.
- Skin Contact:** Wash with cool water and a pH neutral soap or a mild skin detergent. Seek medical attention for rash or irritation.
- Inhalation:** Move person to fresh air. Seek medical attention for discomfort or if coughing or other symptoms do not subside.
- Ingestion:** Do not induce vomiting. If conscious, have person drink plenty of water. Seek medical attention or contact poison control center immediately.
- Note to Physician:** The three types of silicosis include:
- Simple chronic silicosis – which results from long-term exposure (more than 20 years) to low amounts of respirable crystalline silica. Nodules of chronic inflammation and scarring provoked by the respirable crystalline silica form in the lungs and chest lymph nodes. This disease may feature breathlessness and may resemble chronic obstructive pulmonary disease (COPD).

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### Section 4: FIRST AID MEASURES (continued)

- Accelerated silicosis – occurs after exposure to larger amounts of respirable crystalline silica over a shorter period of time (5-15 years). Inflammation, scarring, and symptoms progress faster in accelerated silicosis than in simple silicosis.
- Acute silicosis – results from short-term exposure to very large amounts of respirable crystalline silica. The lungs become very inflamed and may fill with fluid, causing severe shortness of breath and low blood oxygen levels.

Progressive massive fibrosis may occur in simple or accelerated silicosis, but is more common in the accelerated form. Progressive massive fibrosis results from severe scarring and leads to the destruction of normal lung structures.

### Section 5: FIREFIGHTING MEASURES

<b>General Hazard:</b>	Avoid breathing dust.	<b>Flashpoint &amp; Method:</b>	Non-combustible
<b>Extinguishing Media:</b>	Use extinguishing media appropriate for surrounding fire.	<b>Firefighting Equipment:</b>	Limestone and Dolomite pose no fire-related hazard. A SCBA is recommended to limit exposures to combustion products when fighting any fire.
<b>Combustion Products:</b>	Limestone and Dolomite decomposes at 825° C producing Calcium and Magnesium Oxide		

### Section 6: ACCIDENTAL RELEASE MEASURES

<b>General:</b>	Place spilled material into a container. Avoid actions that cause dust to become airborne. Avoid inhalation of dust. Wear appropriate protective equipment as described in Section 8. Do not wash Limestone and Dolomite down sewage and drainage systems or into bodies of water (e.g. streams).
<b>Waste Disposal Method:</b>	Dispose of Limestone and Dolomite according to Federal, State, Provincial and Local regulations.

### Section 7: HANDLING AND STORAGE

<b>General:</b>	<p>Stack bagged material in a secure manner to prevent falling. Bagged aggregate is heavy and poses risks such as sprains and strains to the back, arms, shoulders and legs during lifting and mixing. Handle with care and use appropriate control measures.</p> <p>Engulfment hazard. To prevent burial or suffocation, do not enter a confined space, such as a silo, bin, bulk truck, or other storage container or vessel that stores or contains Limestone and Dolomite. Dust can buildup or adhere to the walls of a confined space. The dust can release, collapse or fall unexpectedly.</p> <p>Do not stand on stockpiles of Limestone and Dolomite, they may be unstable. Use engineering controls (e.g. wetting stockpiles) to prevent windblown dust from stockpiles, which may cause the hazards described in Section 3.</p>
<b>Usage:</b>	<p>This product is NOT to be used for abrasive blasting.</p> <p>Cutting, crushing or grinding Limestone and Dolomite, hardened cement, concrete or other crystalline silica-bearing materials will release respirable crystalline silica. Use all appropriate measures of dust control or suppression, and Personal Protective Equipment (PPE) described in Section 8 below.</p>

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### Section 7: HANDLING AND STORAGE (continued)

- Housekeeping:** Avoid actions that cause dust to become airborne during clean-up such as dry sweeping or using compressed air. Use HEPA vacuum or thoroughly wet with water to clean-up dust. Use PPE described in Section 8 below.
- Storage Temperature:** Unlimited. **Storage Pressure:** Unlimited.
- Clothing:** Remove and launder clothing that is dusty before it is reused.
- Warning:** Crystalline silica exists in several forms, the most common of which is quartz. If crystalline silica (quartz) is heated to more than 870° C it can change to a form of crystalline silica known as tridymite, and if crystalline silica (quartz) is heated to more than 1470° C it can change to a form of crystalline silica known as cristobalite. Crystalline silica as tridymite and cristobalite are more fibrogenic than crystalline silica as quartz. The OSHA PEL for crystalline silica as tridymite and cristobalite is one-half the PEL for crystalline silica (quartz); the ACGIH TLV crystalline silica as tridymite and cristobalite is 0.05 mg/m<sup>3</sup> (R).

### Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering Controls:** Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits.

#### Personal Protective Equipment (PPE):

- Respiratory Protection:** Under ordinary conditions no respiratory protection is required. Wear a NIOSH approved respirator that is properly fitted and is in good condition when exposed to dust above exposure limits.
- Eye Protection:** Wear ANSI approved glasses or safety goggles when handling dust to prevent contact with eyes. Wearing contact lenses when using Limestone and Dolomite, under dusty conditions, is not recommended.
- Skin Protection:** Wear gloves in situations where abrasions from Limestone and Dolomite may occur. Remove clothing and protective equipment that becomes dusty and launder before reusing.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Solid	<b>Evaporation Rate:</b>	NA.
<b>Appearance:</b>	Variety of colors	<b>pH (in water):</b>	Neutral
<b>Odor:</b>	None.	<b>Boiling Point:</b>	>1000° C
<b>Vapor Pressure:</b>	NA.	<b>Freezing Point:</b>	None, solid.
<b>Vapor Density:</b>	NA.	<b>Viscosity:</b>	None, solid.
<b>Specific Gravity:</b>	2.6-2.8	<b>Solubility in Water:</b>	Insoluble

The following table describes the mineral composition of Limestone and Dolomite.

Rock Type	Rock	Mineral	Mineral Formula	Mineral Composition
Sedimentary Rocks	Limestone	Calcite and Aragonite	CaCO <sub>3</sub>	Calcium Carbonate
		Clay Minerals	(Mg, Al) Si <sub>3</sub> O <sub>12</sub>	Magnesium Aluminum Silicate
		Chert or Diatomite	SiO <sub>2</sub>	Silicon Dioxide
	Dolomite (Dolostone)	Dolomite	CaMg(CO <sub>3</sub> ) <sub>2</sub>	Calcium Magnesium Carbonate
		Clay Minerals	(Mg, Al) Si <sub>3</sub> O <sub>12</sub>	Magnesium Aluminum Silicate
		Chert or Diatomite	SiO <sub>2</sub>	Silicon Dioxide

**Crystalline silica content: Sedimentary types 1-20%; Quartz 100%.**



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### **Section 10: STABILITY AND REACTIVITY**

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- Stability:** Stable. Avoid contact with incompatible materials.
- Incompatibility:** Limestone and Dolomite dissolve 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.
- Hazardous Polymerization:** None.
- Hazardous Decomposition:** Limestone and Dolomite decomposes at 825° C producing Calcium and Magnesium Oxide.

### **Section 11 and 12: TOXICOLOGICAL AND ECOLOGICAL INFORMATION**

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For questions regarding toxicological and ecological information refer to contact information in Section 1.

### **Section 13: DISPOSAL CONSIDERATIONS**

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Dispose of waste and containers in compliance with applicable Federal, State, Provincial and Local regulations.

### **Section 14: TRANSPORT INFORMATION**

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This product is not classified as a Hazardous Material under U.S. DOT or Canadian TDG regulations.

### **Section 15: REGULATORY INFORMATION**

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- OSHA/MSHA Hazard Communication:** This product is considered by OSHA/MSHA to be a hazardous chemical and should be included in the employer's hazard communication program.
- CERCLA/SUPERFUND:** This product is not listed as a CERCLA hazardous substance.
- EPCRA  
SARA Title III:** This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 and is considered a hazardous chemical and a delayed health hazard.
- EPCRA  
SARA Section 313:** This product contains none of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.
- RCRA:** If discarded in its purchased form, this product would not be a hazardous waste either by listing or characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.
- TSCA:** Calcium Carbonate and Crystalline silica are exempt from reporting under the inventory update rule.
- California  
Proposition 65:** Crystalline silica (airborne particulates of respirable size) is known by the State of California to cause cancer.
- WHMIS/DSL:** Limestone and Dolomite may be subject to WHMIS depending on the intended use and worker exposure. Limestone and Dolomite products containing crystalline silica and calcium carbonate are classified as D2A, and are subject to WHMIS requirements.



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**Section 16: OTHER INFORMATION**

**Abbreviations:**

>	Greater than	NA	Not Applicable
ACGIH	American Conference of Governmental Industrial Hygienists	NFPA	National Fire Protection Association
CAS No	Chemical Abstract Service number	NIOSH	National Institute for Occupational Safety and Health
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act	NTP	National Toxicology Program
		OSHA	Occupational Safety and Health Administration
CFR	Code for Federal Regulations	PEL	Permissible Exposure Limit
CL	Ceiling Limit	pH	Negative log of hydrogen ion
DOT	U.S. Department of Transportation	PPE	Personal Protective Equipment
EST	Eastern Standard Time	R	Respirable Particulate
HEPA	High-Efficiency Particulate Air	RCRA	Resource Conservation and Recovery Act
HMIS	Hazardous Materials Identification System	SARA	Superfund Amendments and Reauthorization Act
		T	Total Particulate
IARC	International Agency for Research on Cancer	TDG	Transportation of Dangerous Goods
LC <sub>50</sub>	Lethal Concentration	TLV	Threshold Limit Value
LD <sub>50</sub>	Lethal Dose	TWA	Time Weighted Average (8 hour)
mg/m <sup>3</sup>	Milligrams per cubic meter	WHMIS	Workplace Hazardous Materials Information System
MSHA	Mine Safety and Health Administration		

This SDS (Sections 1-16) was revised March 1, 2015

Copies of this SDS is available at: Consolidated Materials, Inc. 1320 S. Virginia Road Crystal Lake IL, 60014  
PH: 847-658-4342

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