Safety Data Sheet

Limestone Products

Section 1: Product and Company Identification

Product: Limestone Products

Synonyms: Aggregate, Aglime, Limestone, Manufactured Sand, Mineral Filler, Screenings, Rip Rap,

Product Use: Limestone is used in the manufacture of bricks, mortar, cement, concrete, plasters, paving materials, other construction materials, steel, consumer products, and other goods. Limestone aggregate may be distributed in bags, totes, and bulk shipments.

Manufacturer: Dolese Bros. Co.
20 N.W. 13th
Oklahoma City, OK 73101
Phone: 405-235-2311
www.dolese.com

Section 2: Hazards Identification

Physical Hazards Not Classified

Hazard Classification

Carcinogenicity	Category 1A
Specific Target Organ Toxicity, Repeated Exposure	Category 2

OSHA Defined Hazards Not Classified

GHS LABEL ELEMENTS

Symbol(s)

Signal Word Danger

Hazard statement May cause cancer. May cause damage to organs (lungs) through prolonged or repeated exposure.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye JTf.22710D45b22/2.05060TD0Tc609010D45b22/2.05060TD0Tc609

Supplemental Information

Respirable

Section 6: Accidental Release Measures

Personal precautions and Wear appropriate protective equipment and clothing during clean-up of materials

U.S. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Crystalline Silica (all forms; CAS mixture)	TWA	0.05 mg/m³	Respirable dust
Calcium Carbonate (CAS 1317-65-3)	TWA	5 mg/m³	Respirable fraction
		15 mg/m³	Total dust

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines OSHA PELs, MSHA PELs, and ACGIH TLVs are 8-hr TWA values. NIOSH RELs are for TWA exposures up to 10-hr./day and 40-hr/wk. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled. Terms including "Particulates Not Otherwise Classified," "Particulates Not Otherwise Regulated," "Particulates Not Otherwise Specified," and "Inert or Nuisance Dust" are often used interchangeably; however, the user should review each agency's terminology for differences in meanings.

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour indoors) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Use personal protective equipment as required.

Other Use personal protective equipment as required.

Rrespiratory protection When handling or performing work with Limestone that produces dust or respirable crystalline silica in excess of applicable exposure limits, wear a NIOSH-approved respirator that is properly fitted and is in good condition. Respirators must be used in accordance with all applicable workplace regulations.

Thermal hazards Not anticipated. Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9: Physical and Chemical Properties

Appearance		**Vapor Pressure**	Not applicable
Physical state	Solid	**Vapor Density**	Not applicable
Form	Solid particles	**Relative Density**	2.55 – 2.90
Color	White to grey	**Solubility(ies)**	
Odor	Not applicable	**Solubility (water)**	Insoluble
Odor threshold	Not applicable	**Partition coefficient**	Not applicable
pH	8.5 – 9.0	**(n‖ octanol/water)**	
Melting point/freezing point	Not applicable	**Auto‖ignition temperature**	Not applicable
Initial boiling point and boiling range	Not applicable	**Decomposition temperature**	Not applicable
Flash point	Non combustible	**Viscosity**	Not applicable
Evaporation rate	Not applicable	**Other information**	
Upper/Lower flammability or explosive limits		**Explosive properties**	Not applicable
Flammability limit – lower (%)	Not applicable	**Flammability**	Not applicable
Flammability limit – Upper (%)	Not applicable		

Section 10: Chemical Stability and Reactivity Information

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.

Section 11: Toxicological Information

Information on likely routes of exposure

Inhalation	Repeated inhalation of respirable crystalline silica (quartz) may cause silicosis, a fibrosis (scarring) of the lungs. Silicosis is irreversible and may be fatal. Silicosis increases the risk of contracting pulmonary tuberculosis. Some studies suggest that repeated inhalation of respirable crystalline silica may cause other adverse health effects including lung and kidney cancer.
Skin contact	Limestone dust: May cause irritation through mechanical abrasion.
Eye contact	Limestone dust: May cause irritation through mechanical abrasion.
Ingestion	Not likely, due to the form of the product. However, accidental ingestion of the content may cause discomfort.
Symptoms related to the physical, chemical and toxicological characteristics	Limestone dust: Discomfort in the chest. Shortness of breath. Coughing.

Information on toxicological effects

Acute toxicity	Not expected to be acutely toxic.
Skin corrosion/irritation	This product is not expected to be a skin hazard.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization	No respiratory sensitizing affects known.
Skin sensitization	Not known to be a dermal irritant or sensitizer.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Respirable crystalline silica has been classified by IARC and NTP as a known human carcinogen, and classified by ACGIH as a suspected human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline Silica (Quartz) (CAS 14808-60-7)	1 Carcinogenic to humans.
Respirable Tridymite and Cristobalite (other forms of Crystalline) (CAS Mixture)	1 Carcinogenic to humans.

NTP Report on Carcinogens

Crystalline Silica (Quartz) (CAS 14808-60-7)	Known To Be Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001 1050 0 0 F 04121.0201Tm.009Tc[(Ca)Tf180300039.00Tc.8(n.)]TJTT11Tf8.98281Tf18.9829

Specific target organ toxicity π single exposure	Not classified.
Specific target organ	Respirable crystalline silica: May