

Material Safety Data Sheet Limestone

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Limestone

Synonym/s: High Calcium Limestone; Hi-Cal Limestone; Calcium Carbonate; Treated Limestone

Chemical Name: Calcium Carbonate Chemical Formula: CaCO₃

Product Use/s: Mineral Filler

Manufacturer:US Operations:Canadian Operations:Lhoist North AmericaLhoist North America of Canada, Inc.3700 Hulen St.20303-102B Ave.Fort Worth, TX 76107Langley, BC V1M 3H1817-732-8164604-888-4333

Emergency Phone: Chemtrec 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview: Limestone is an odorless white, grayish-white or tan material that ranges from pebble to

a granular powder. Contact can cause irritation to eyes, skin, respiratory system, and

gastrointestinal tract. Limestone reacts with acid to form CO₂.

Potential Health Effects

Eyes: Contact can cause irritation of eyes.

Skin: Contact can cause mild irritation of skin.

Ingestion: In large amounts, this material may cause gastrointestinal irritation or blockage.

Inhalation: This product can cause mild irritation of the respiratory system. Long-term exposure may

cause permanent damage. Limestone is not listed by MSHA, OSHA, or IARC as a

carcinogen. However, this product may contain trace amounts of crystalline silica in the form of quartz or crystobalite, which has been classified by IARC as a Group I carcinogen to humans when inhaled. Inhalation of silica can also cause a chronic lung disorder, silicosis.

Potential Environmental

Effects:

None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient		Common Name	Conc. (%)	CAS
Calcium Carbonate	CaCO ₃	Limestone	> 95	1317-65-3
Crystalline Silica	SiO ₂	Quartz	< 2	14808-60-7

(Crystalline Silica is reported as total silica and not just the respirable fraction)

SECTION 4: FIRST AID MEASURES

Eyes: Immediately flush eyes with generous amounts of water or eye wash solution if water is

unavailable. Pull back eyelid while flushing to ensure that all limestone dust has been washed out. Seek medical attention promptly if the initial flushing of the eyes does not remove the

irritant. Do not rub eyes.

Skin: Brush off or remove as much dry limestone as possible. Wash exposed area with large

amounts of water.

Inhalation: Move victim to fresh air. Seek medical attention.

Ingestion: Do not induce vomiting. Seek medical attention immediately. Never give anything by mouth

unless instructed to do so by medical personnel.



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Contact may aggravate disorders of the eyes, skin, gastrointestinal tract, and respiratory

Medical Conditions system.

Aggravated by Exposure:

SECTION 5: FIREFIGHTING MEASURES

Fire Hazards: Limestone is not combustible or flammable. This product is not considered to be an

explosion hazard, although reaction with incompatible materials, such as acids, may rupture

containers.

Suitable Extinguishing

Media:

N/A

N/A

Fire

Fighting Instructions:

Hazardous Not applicable

Combustion Products:

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill / Leak Procedures: Use proper protective equipment.

Small Spills: Use dry methods to collect spilled materials. Avoid generating dust.

Residue on surfaces may be water washed.

Large Spills: Use dry methods to collect spilled materials. Avoid generating dust.

Residue on surfaces may be water washed.

Containment: Minimize dust generation and prevent bulk release to sewers or waterways.

Clean-up: Normal housekeeping can be applied.

SECTION 7: HANDLING AND STORAGE

Handling: Use routine safety measures to keep dust from coming into contact with eyes and

avoid respiration.

Storage: Store in a cool, dry and well-ventilated location.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredient	OSHA PEL, TWA 8/40h (mg/m3)	ACGIH TLV, TWA 8/40h (mg/m3)	NIOSH REL, TWA 8/40h (mg/m3)	NIOSH IDLH (mg/m3)
Calcium Carbonate	15 (total dust)	10	10 (total dust)	n/a
	5 (respirable)	10	5 (respirable)	II/a
Crystalline Silica	10/(SiO2% +	0.025	0.05	50
	2) (respirable)	(respirable)	(respirable)	50

Engineering Controls: Provide ventilation adequate to maintain PELs.

Respiratory Protection: Use NIOSH/MSHA approved respirators if airborne concentration exceeds PELs.

Skin Protection: Use appropriate gloves and footwear to prevent skin contact and the potential for irritation.

Clothing should fully cover arms and legs.

Eye Protection: Use safety glasses with side shields or safety goggles.

Other: Eye wash fountain/stations and emergency showers should be available.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White, grayish-white or tan Odor: Odorless Physical State: Solid lumps or powder

Melting Point (°C/°F): Boiling Point (°C/°F): n/a n/a

Specific Gravity 2.6 - 2.9 g/cc

Evaporation Rate: n/a Vapor Pressure (mm Hg): n/a Vapor Density: n/a

pH (25°C/77°F): 8 - 9 Solubility in Water: Not readily soluble in water.

SECTION 10: STABILITY AND REACTIVITY

Stability: Chemically stable, but reacts vigorously with acids to form CO2. Ignites on contact with

Fluorine.

Hazardous Decomposition/ Limestone decomposes at 950°C / 1742°F to produce calcium oxide and CO₂.

Products:

Hazardous Polymerization: Does not occur

Incompatibility/

Conditions to Avoid: Limestone should not be mixed or stored with the following materials, due to the potential

for vigorous reaction and release of heat:

Fluorine	Ammonium salts
Aluminum	Hydrogen
Magnesium	Acids

SECTION 11: TOXICOLOGICAL INFORMATION

An LD50 of 6450mg/kg (Rat, oral) has been identified for this product. Limestone is not listed by MSHA, OSHA, or IARC as a carcinogen, but this product may contain trace amounts of crystalline silica, which has been classified by IARC as carcinogenic to humans when inhaled in the form of quartz or crystobalite.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: None expected.

Environmental Fate: This material shows no bioaccumulation effect or food chain concentration toxicity.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable federal, state, and local environmental regulations. If this product as supplied, and unmixed, becomes a waste, it will not meet the criteria of a hazardous waste as defined under the U.S. Resource Conservation and Recovery Act (RCRA).

SECTION 14: TRANSPORTATION INFORMATION

Limestone is not classified as a hazardous material by US DOT and is not regulated by the Transportation of Dangerous Goods (TDG) when shipped by any mode of transport.

SECTION 15: REGULATORY INFORMATION

U.S. EPA Regulations: RCRA Hazardous Waste Number (40 CFR 261.33): not listed

RCRA Hazardous Waste Classification (40 CFR 261): not classified

CERCLA Hazardous Substance (40 CFR 302.4) unlisted specific per RCRA, Sec. 3001;

CWA, Sec. 311(b)(4); CWA, Sec. 307(a), CAA, Sec. 112



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CERCLA Reportable Quantity (RQ), not listed

SARA 311/312 Codes: not listed

SARA Toxic Chemical (40 CFR 372.65): not listed

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): not listed, Threshold

Planning Quantity (TPQ): not listed

All chemical ingredients are listed on the US EPA TSCA Inventory List.

OSHA/MSHA

Regulations: Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): 5mg/M³ TWA-8

MSHA: not listed

OSHA Specifically Regulated Substance (29 CFR 1910): not listed

State Regulations: Consult state and local authorities for guidance. Components found in this product may

contain trace amounts of inherent naturally occurring elements (such as, but not limited to arsenic and cadmium) that may be regulated under California Proposition 65 and other

States regulations.

Canada: WHMIS Classification: "D2A" Materials Causing Other Toxic Effects

Canada NDSL: Listed

SECTION 16: OTHER INFORMATION

Prepared By: Lhoist North America, Technical Services

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NFPA Hazard Class: Health: 1 Flammability: 0 Instability: 0

Physical

HMIS Hazard Class: Health: 1* Flammability: 0 Hazard: 0 Specific Hazard: ALK

Abbreviations: N/A Not Available or Not Applicable

IARC International Agency for Research on Cancer
IATA International Air Transport Association

ACGIH American Conference of Governmental Industrial Hygienists

TWA Time Weighted Average
PEL Permissible Exposure Limit
TLV Threshold Limit Value

REL Recommended Exposure Limit

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