MATERIAL SAFETY DATA SHEET

Material: Limestone

Section I – Identification

Supplier:
Name: Holcim (US) Inc.
Address: 6211 N. Ann Arbor Road
Dundee, MI 48131
Telephone: 800-854-4656

Emergency Contact Information: (CHEMTREC)
Health 1-800-424-9300
Transportation 1-800-424-9300

Product Codes:*

Carbonate rock, crushed stone, aggregates, manufactured sand, marble, calcite

Chemical Name and Synonyms:

Calcium carbonate.

Formula:

This MSDS covers many products; individual composition may vary.

Section II – Components

Hazardous Ingredients

Component	CAS No.	OSHA PEL (8-hour TWA)	ACGIH TLV-TWA (2002)
Calcium carbonate	1317-65-3	15 mg/m^3 (total dust); 5 mg/m^3 (respirable dust)	10 mg/m^3 (total dust)

Trace constituents: Calcium carbonate is mined from the earth. Trace amounts of naturally occurring chemical compounds might be detected during chemical analysis. These may include magnesium carbonate, small amounts of free crystalline or amorphous silica, aluminum silicates, iron oxide and aluminum oxide.

Section III - Hazards Identification

Emergency Overview

Limestone is a gray to white colored solid that poses little immediate hazard. A single short-term exposure to the dry powder is not likely to cause serious harm.

Potential Health Effects

- *Relevant Routes of Exposure:* Eye contact, skin contact, inhalation, and ingestion
- *Effects resulting from eye contact:* Exposure to airborne dust may cause immediate or delayed irritation, burns or damage to the cornea.
- *Effects from skin contact:* May cause dry skin, redness, discomfort or irritation.
- *Effects resulting from inhalation:* Prolonged or repeated exposure may cause lung injury including silicosis due to the presence of crystalline free silica, which has been classified by IARC as a known (Group I) human carcinogen through inhalation. Prolonged exposure to respirable free crystalline silica can aggravate other lung conditions and cause silicosis, a disabling and potentially fatal lung disease and/or other diseases. Risk of injury or disease depends on duration and degree of exposure. (Also see "Carcinogenic potential" below.) It may also leave unpleasant deposits in the nose.
- *Effects resulting from ingestion:* Although small quantities of this dust are not known to be harmful, ill effects are possible if larger quantities are consumed. Limestone should not be eaten.
- *Carcinogenic potential:* Limestone has not been listed as a carcinogen by NTP, OSHA, or IARC. It may, however, contain trace amounts of substances, such as silica, which are listed as carcinogens by these organizations. Crystalline silica, which may be present in limestone in small amounts, has been listed by IARC as a known human carcinogen (Group I) through inhalation.
- *Medical conditions which may be aggravated by inhalation or dermal exposure*: pre-existing lung diseases.

Section IV - First Aid

Eyes: Immediately flush eyes thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Call physician immediately.

Skin: Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment for abrasions.

Inhalation of Airborne Dust: Remove to fresh air. Seek medical help if coughing or other symptoms do not subside. (Inhalation of gross amounts of limestone requires immediate medical attention.)

Ingestion: Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately.

Section V - Fire & Explosion Data

Flash point:	*None*	Auto ignition temperature:	*Not Combustible*
Lower Explosive Limit:	*None*	Upper Explosive Limit:	*None*
Extinguishing media:	*Not Combustible*	Unusual fire & explosion hazards	*None*
Hazardous combustion products:	*None*		

Special fire fighting procedures: None. (Although limestone poses no fire-related hazards, a self-contained breathing apperatus is recommended to limit exposure to combustion products when fighting any fire.)

Section VI - Accidental Release Measures

Collect dry material using a scoop. Avoid actions that cause dust to become airborne. Avoid inhalation of dust and contact with skin. Wear appropriate personal protective equipment as described in Section VIII.

Scrape up wet material and place in an appropriate container. Allow the material to "dry" before disposal. Do not attempt to wash limestone down drains.

Dispose of waste material according to local, state, and federal regulations.

Section VII - Handling & Storage

Avoid accidental release. Dispose of containers in an approved landfill or incinerator.

Section VIII - Exposure Control/Personal Protection

Skin Protection: Wear impervious gloves, shoes and protective clothing to prevent skin contact.

Respiratory protection: Avoid actions that cause dust to become airborne. Use local or general ventilation to control exposures below applicable exposure limits. Under ordinary circumstances, no respiratory protection should be required. Use NIOSH or MSHA approved respirators in poorly ventilated areas, if an applicable exposure limit is exceeded, or when dust causes discomfort or irritation.

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

Eye Protection: In conditions where user may be exposed to excessive concentrations of limestone dust, safety glasses with side shields or goggles should be worn.

Section IX - Physical & Chemical Properties

Appearance:	*Gray or white powder*	Vapor Pressure:	*Not applicable*
Odor:	*No distinct odor*	Vapor density:	*Not applicable*
Physical state:	*Solid (powder)*	Boiling point:	*Not applicable (i.e., > 1000 °C)*
pH (in water):	neutral	Melting point:	*Not applicable*
Solubility in water:	negligible	Specific gravity (H_2O = 1.0):	*2.6 to 2.8*
Evaporation Rate:	*Not applicable*		

Section X - Stability & Reactivity

Stability: *Stable.*

Incompatibility: *Dissolves in hydrofluoric acid producing corrosive silicon tetra fluoride gas. Silicates react with powerful oxidizers such as fluorine or chlorine.*

Conditions to avoid:	*None.*
Hazardous decomposition:	*None.*
Hazardous polymerization:	*Will not occur.*

Section XI - Toxicological Information

For a description of available, more detailed toxicological information, contact Holcim (US) Inc. (in Section I).

Section XII – Ecological Information

Ecotoxicity:	*No recognized unusual toxicity to plants or animals*
Relevant physical and chemical properties:	*See Sections IX & X.*

Section XIII – Disposal

Dispose of waste material according to local, state, and federal regulations. Dispose of bags in an approved landfill or incinerator.

Section XIV - Transportation Data

Hazardous materials description/proper shipping name:	*Limestone is not hazardous under U.S. Department of Transportation (DOT) regulations*
Hazard class:	*Not applicable*
Identification class:	*Not applicable*
Required label text:	*Not applicable*
Hazardous substances/reportable quantities (RQ):	*Not applicable*

Section XV - Other Regulatory Information

Status under USDOL-OSHA Hazard Communication Rule, 29 CFR 1910.1200:	*Limestone is considered a "hazardous chemical" under this regulation, and should be part of any hazard communication program.*
Status under CERCLA/Superfund, 40 CFR 117 and 302:	*Not listed.*
Hazard Category under SARA (Title III), Sections 311 & 312:	*Limestone qualifies as a "hazardous substance" with delayed health effects.*
Status under SARA (Title III) Section 313:	*Not subject to reporting requirements under section 313.*
Status under TSCA (as of May 1997):	*Some trace substances, which may be present in limestone, are on the TSCA inventory list.*
Status under the Federal Hazardous Substances Act:	*Limestone is a "hazardous substance" subject to statutes promulgated under the subject act.*
Status under California Proposition 65:	*Limestone may contain chemicals (silica or trace metals) known to the State of California to cause cancer, birth defects or other reproductive harm. California law requires the manufacturer to give the above warning in the absence of definitive testing to prove that the defined risks do not exist.*
Status under Canadian Environmental Protection Act:	*Not listed.*
Workplace Hazardous Material Information System (Canada):	*Limestone is considered to be a hazardous material under the Hazardous Product Act as defined by the Controlled Products Regulations and is therefore subject to the labeling and MSDS requirements of the Workplace Hazardous Materials Information System (WHMIS).*

Section XVI - Other Information

Approved by: Susan Diehl, Vice President

Revision Date: April 3, 2003

Other important information:

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