

5205-0

# **MATERIAL SAFETY DATA SHEET (MSDS) FOR NATURAL SAND OR GRAVEL**

(Complies with OSHA and MSHA Hazard Communication Standards,  
29 CFR 1910.1200 and 30 CFR Part 47)



**CEMEX, INC.  
840 GESSNER ROAD, SUITE 1400  
HOUSTON, TEXAS 77024**

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**Section 1 - IDENTIFICATION**
Supplier/Manufacturer

CEMEX, Inc.  
840 Gessner Road, Suite 1400  
Houston, Texas 77024

Emergency Contact Information

(713) 650-6200

Product name and synonyms

Sand, Gravel, Construction Aggregate, A-B Rock

Chemical family

Limestone (CAS #1317-65-3)

Quartz (CAS #14808-60-7)

Formula

Not Applicable

Not Applicable

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**Section 2 - COMPONENTS**
Hazardous Ingredients

Respirable quartz (CAS# 14808-60-7) – greater than 0.1% by weight

ACGIH TLV-TWA (2006) = 0.025 mg respirable quartz dust/m<sup>3</sup>

OSHA PEL (8-hour TWA) = (10 mg respirable dust/m<sup>3</sup>)/(percent silica + 2)

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**Section 3 - HAZARD IDENTIFICATION**
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 or inflammation.

**Effects Resulting from Skin Contact:**

Direct contact may cause irritation by mechanical abrasion.

**Effects Resulting from Inhalation:**

Natural Sand or Gravel may contain trace amounts of free crystalline silica. Prolonged exposure to respirable free silica can aggravate other lung conditions and cause silicosis, a disabling and potentially fatal lung disease.

Exposure to sand or gravel dust may cause irritation to the moist mucous membranes of the nose, throat, and upper respiratory system. It may also leave unpleasant deposits in the nose.

**Effects Resulting from Ingestion:**

Although small quantities of dust are not known to be harmful, ill effects (gastrointestinal irritation and blockage) are possible if larger quantities are consumed.

**Carcinogenic potential:**

Natural Sand or Gravel are **not** listed as a carcinogen by NTP, OSHA, or IARC. It may however, contain trace amounts of substances listed as carcinogens by these organizations.

Crystalline silica, which is a component of natural sand or gravel, is now classified by IARC as known human carcinogen (Group I). NTP has characterized respirable silica as "reasonably anticipated to be [a] carcinogen".

**Medical conditions which may be aggravated by, inhalation or dermal exposure:**

Pre-existing upper respiratory and lung diseases.

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## Section 4 - 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 if irritation persists or later develops.

### Skin

Wash skin with cool water and a mild detergent. Seek medical treatment if irritation persists or later develops.

### Inhalation of Airborne Dust

Remove to fresh air. Seek medical help if coughing and other symptoms do not subside.

### Ingestion

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

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## Section 5 - FIRE AND EXPLOSION DATA

|                                 |                 |   |                 |
|---------------------------------|-----------------|---|-----------------|
| Flash point .....               | None            | Lower Explosive Limit.....              | None            |
| Upper Explosive Limit.....      | None            | Auto ignition temperature.....          | Not Combustible |
| Extinguishing media.....        | Not Combustible | Special fire fighting Procedures.....   | None            |
| Hazardous combustion products.. | None            | Unusual fire and explosion hazards..... | None            |

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## Section 6 - 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. Wetting of spilled materials may be beneficial to minimize generation of airborne dusts.

None of the components of this product are subject to the reporting requirements of Title III of SARA 1986, and 40 CFR 372.

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## Section 7 - HANDLING AND STORAGE

Follow the personal protection and controls set forth in Section 8 of this MSDS when handling this product. Respirable crystalline silica-containing dust may be generated during processing, handling and storage.

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## Section 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Skin Protection

Wash dust-exposed skin with soap and water before eating, drinking, smoking, and using the toilet facilities. Wash work cloths after each use.

### Respiratory Protection

Avoid actions that cause dust to become airborne. Use local or general exhaust ventilation to control exposures below applicable exposure limits.

Use NIOSH/MSHA approved (under 30 CFR 11) or NIOSH approved (under 42 CFR 84) respirators in poorly ventilated areas, if an applicable exposure limit is exceeded, or when dust causes discomfort or irritation. (Advisory: Respirators and filters purchased after June 10, 1998 must be certified under 42 CFR 84.)

### Ventilation

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

### Eye Protection

Safety glasses with side shields should be worn as minimum protection. In extremely dusty environments and unpredictable environments wear unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when working with products which may generate airborne dust.

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**Section 9 - PHYSICAL AND CHEMICAL, PROPERTIES**

|                                     |   |
|-------------------------------------|---|
| Physical state.....Solid            | Odor.....No distinct odor                         |
| Solubility in water...Negligible    | Vapor pressure.....Not applicable                 |
| Vapor density.....Not applicable    | Boiling point.....Not applicable (i.e., > 1000 C) |
| Melting point.....Not applicable    | Specific gravity (H2O = 1.0).....2.55-2.85        |
| Evaporation rate.....Not applicable |   |

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**Section 10 - STABILITY AND REACTIVITY**
Stability

Stable.

Conditions to avoid

Avoid contact with incompatible materials (see below).

Incompatibility

Not known to be incompatible with any materials.

Hazardous decomposition

Will not spontaneously occur. Silica-containing respirable dust particles may be generated by handling.

Hazardous Polymerization

Will not occur.

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**Section 11 - TOXICOLOGICAL INFORMATION**

For a description of available, more detailed toxicological information contact the supplier or manufacturer.

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**Section 12 - ECOLOGICAL INFORMATION**
Ecotoxicity

No recognized unusual toxicity to plants or animals

Relevant physical and chemical properties

(See Sections 9 and 10.)

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**Section 13 - DISPOSAL**

Pickup and reuse clean materials. Dispose of waste materials in accordance with applicable federal, state, and local laws and regulations.

Where applicable, dispose of bags in an approved landfill or incinerator.

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**Section 14 - TRANSPORTATION DATA**
Hazardous materials description/proper shipping name

Not hazardous under U.S. Department of Transportation (DOT) regulations.

Hazard class

Not applicable.

Identification number

Not applicable

Required label text

Not applicable.

Hazardous substances/reportable quantities (RQ)

Not applicable.

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**Section 15 - OTHER REGULATORY INFORMATION**Status under USDOL-OSHA Hazard Communication Rule, 29 CFR 1910.1200

Natural Sand or Gravel 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 and 312

Natural Sand or Gravel does qualify as a "hazardous substance".

Status under SARA (Title III), Section 313

Not subject to reporting requirements under Section 313.

Status under TSCA (as of May 1997)

Some substances in Natural Sand or Gravel 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

This product contains up to 0.05 percent of chemicals (trace elements) 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.

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**Section 16 - OTHER INFORMATION**Prepared by

Kevin Keegan  
Director - Health and Safety  
CEMEX, Inc.  
Houston, Texas

Approval date or Revision date

Approved: July 1998  
Revised: January 2008

Other important information

This product should only be used by knowledgeable persons. While the information provided in this material safety data sheet is believed to provide a useful summary of the hazards this product as it is commonly used, the sheet cannot anticipate and provide the all of the information that might be needed in every situation. Inexperienced product users should obtain proper training before using this product.

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