

# Safety Data Sheet



## Aggregate Product

### Section 1. Identification

Product identifier: Aggregate Product

Other means of identification:

Aggregate	Mineral White
Aglime	Quick Lime
Granite	Tripolite
Crushed Stone	Opaline Silica
Calcium Sulfate Dihydrate	Limestone
Gypsum Stone	Dolomite
Hydrated Lime	Granite
Caustic Lime	Basalt
Aggregate Base Crushed with Lime	Sand
Hydrated Calcium Sulfate	Gravel

Relevant Uses: Basic component in Building Materials and Construction Applications

Manufacturers Name: CEMEX

Address: 10100 Katy Freeway, Suite 300  
Houston, TX 77043  
T Customer Care 1-800-99-CEMEX

Emergency telephone number: CHEMTREC: 1-800-424-9300

### Section 2. Hazards Identification

*As packaged, this material does not present significant health hazards. The hazards below apply to the product if aerosols or dusts are generated from cutting, grinding, or pulverizing.*

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Category Classification(s): CARCINOGENICITY/INHALATION - Category 1

#### GHS label elements:

Hazard pictograms:



GHS08

Signal word: Danger

Hazard statements: May cause cancer (Inhalation, Dermal).

Precautionary Statements: Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood

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Wear eye protection, protective clothing, protective gloves  
 If exposed or concerned: Get medical advice/attention  
 Dispose of contents/container to comply with local/regional/national regulations

Other Hazards: Not applicable

## Section 3. Composition / Information on Ingredients

Substance/mixture: Aggregate Product

Ingredient Name	% Content	CAS number
Component of all aggregate products: Crystalline Silica (Quartz) <b>(Note:</b> Aggregate products are naturally occurring materials of variable composition which may contain greater than 0.1% crystalline silica. For example, limestone typically contains less than 1% crystalline silica, granite and gravel up to 40% and sand, up to 100%)	0 - 100	14808-60-7
Component of limestone only: Limestone (calcium carbonate, CaCO <sub>3</sub> )	45 - 100	1317-65-3

Any concentration shown as a range is to protect confidentiality or is due to process variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## Section 4. First-Aid Measures

*As packaged, this material does not present significant health hazards. The hazards below apply to the product if aerosols or dusts are generated from cutting, grinding, or pulverizing.*

### Description of necessary first aid measures:

General:	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Eye contact:	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes.
Inhalation:	Seek medical help if coughing or other symptoms persist. Inhalation of large amounts of Aggregate Products requires immediate medical attention. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the individual is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
Skin contact:	Quickly and gently blot or brush away excess product. Immediately wash thoroughly with lukewarm, gently flowing water and non-abrasive pH neutral soap. Seek medical attention for irritation, dermatitis and prolonged unprotected exposures. Get medical attention if irritation persists.
Ingestion:	Get medical attention immediately. Call a poison center or physician. Have victim rinse mouth thoroughly with water. <b>DO NOT INDUCE VOMITING</b> unless directed to do so by medical personnel. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Have victim drink 60 to 240 mL (2 to 8 oz.) of water. Stop giving water if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

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## Potential symptoms and effects from acute exposures (delayed or immediate):

Eye contact:	May cause eye irritation.
Inhalation:	May cause respiratory irritation.
Skin contact:	May cause mechanical skin irritation.
Ingestion:	Not expected to be a significant route of entry. May cause gastrointestinal discomfort.

## Potential symptoms and effects from over-exposures:

Eye contact:	Adverse symptoms may include the following: pain, watering and redness
Inhalation:	Adverse symptoms may include the following: respiratory tract irritation and coughing
Skin contact:	Adverse symptoms may include the following: pain or irritation, redness
Ingestion:	Adverse symptoms may include the following: stomach pains

## Recommendations for immediate medical attention / treatment:

If large quantities have been Ingested or inhaled:	Seek medical treatment and contact poison treatment specialist immediately.
Notes to physician:	Treat symptomatically.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

## Section 5. Fire-fighting Measures

### Extinguishing media

Suitable extinguishing media:	Non-flammable. Use an extinguishing agent suitable for the surrounding fire.
Specific hazards arising from the chemical:	No specific fire or explosion hazard.
Hazardous thermal decomposition products:	Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulfur oxides and metal oxide/oxides products:
Special protective actions for firefighters:	Evacuate area. Fight fire with normal precautions from a reasonable distance. Move containers from fire area if this can be done without risk.
Special protective equipment for fire-fighters:	Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection.

## Section 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

*No action shall be taken involving any personal risk or without suitable training. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. For personal protective clothing requirements, please see Section 8.*

For non-emergency personnel:	Evacuate area, if necessary. Contact emergency personnel, if needed. Do not breathe dust. Stay upwind.
For emergency responders:	Evacuate surrounding areas if necessary. Keep unnecessary and unprotected personnel from entering. Do not breathe dust. Provide adequate ventilation.

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**Environmental precautions:** Avoid release to the environment. Contain the spill to avoid the discharge of spilled material into drains, surface waters and/or groundwater. If the spilled material enters any drainage systems, surface waters and/or groundwater, follow all applicable local, state and federal laws and regulations for additional clean-up and/or reporting requirements.

## Methods and materials for containment and cleaning up

**Small and large spills:** Wear appropriate personal protective equipment as described in Section 8 for cleaning, containing and removing the spill. Minimize generation of dust. For small spills, clean with a vacuum with a filtration system sufficient to remove and prevent recirculation of cement dust (a vacuum equipped with a high-efficiency particulate air (HEPA) filter is recommended). For large spills, use control dust measures and carefully scoop or shovel into clean dry container for later reuse or disposal. **DO NOT USE COMPRESSED AIR TO CLEAN SPILLS.** Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and Storage

### Precautions for safe handling

**Protective measures:** Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure by obtaining and following special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

**Advice on general occupational hygiene:** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

**Conditions for safe storage:** Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances.

## Section 8. Exposure Controls / Personal Protection

### Occupational Exposure Limits

Ingredient name	Exposure limits
Quartz (crystalline silica)	ACGIH TLV (United States, 3/2012). TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable  NIOSH REL (United States, 6/2009). TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form: Respirable  OSHA PEL Z-3 (United States, 9/2005). TWA: 10mg/m <sup>3</sup> divided by %SiO <sub>2</sub> + 2: Respirable TWA: 30mg/m <sup>3</sup> divided by %SiO <sub>2</sub> + 2: Total
Limestone	ACGIH TLV (United States, 3/2012). TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total  NIOSH REL (United States, 6/2009). TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Respirable TWA: 10 mg/m <sup>3</sup> 10 hours. Form: Total Dust  OSHA PEL (United States, 6/2010). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
Particulates Not Otherwise Regulated (Total Dust)	ACGIH TLV (United States, 3/2012) TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Respirable TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust  OSHA PEL (United States, 6/2010). TWA: 5mg/m <sup>3</sup> 8 hours. Form: Respirable TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust

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## Controls

- Appropriate engineering controls: Use only with adequate ventilation. If user operations generate dust, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## Hygiene

- Wash: Clean water should always be readily available for skin and (emergency) eye washing. Periodically wash areas contacted by Aggregate Products with a pH neutral soap and clean, uncontaminated water. Remove protective equipment and dusty clothing before entering eating areas.

## PPE

- Eye/face protection: In case of dust production: protective goggles. Wearing contact lenses when working with cement is not recommended.
- Hand protection: Wear gloves to prevent mechanical irritation. Recommended material: Nitrile®
- Body protection: Under dusty conditions or when excessive skin contact is likely, wear coveralls or other suitable work clothing.
- Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved. Footwear and other gear to protect the skin should be approved by a specialist before handling this product.
- Respiratory protection: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and assigned protection factor of the selected respirator.

## Section 9. Physical and Chemical Properties

Physical State:	Powder/Solid	Lower and upper explosive (flammable) limits:	Not applicable.
Color:	Gray, white, various shades	Vapor pressure:	Not applicable.
Odor:	Odorless.	Vapor density:	Not applicable.
Odor threshold:	Not available.	Relative density:	2.25 to 2.8
pH (in water):	4.0 to 10.0	Solubility:	Not applicable..
Melting point:	Not available.	Solubility In water:	Not applicable.
Boiling point:	>1000°C (>1832°F)	Partition coefficient: n-octanol/water:	Not applicable.
Flash point:	Not flammable. Not combustible.	Auto-ignition temperature:	Not applicable.
Burning time:	Not available.	Decomposition temperature:	Not available.
Burning rate:	Not available.	SADT:	Not available.
Evaporation rate:	Not applicable.	Viscosity:	Not applicable.
Flammability (solid, gas):	Not applicable.		

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## Section 10. Stability and Reactivity

Reactivity:	Not reactive under normal conditions of storage and use.
Chemical stability:	The product is stable.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No specific data.
Incompatible materials:	Reactive or incompatible with the following materials: oxidizing materials, acids, aluminum and ammonium salt. Limestone ignites on contact with fluorine and is incompatible with acids, alum, ammonium salts, and magnesium. Silica reacts violently with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride yielding possible fire and/or explosions. Silicates dissolve readily in hydrofluoric acid producing a corrosive gas — silicon tetrafluoride.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological Information

### Toxicological Effects

Acute toxicity:	Aggregate ProductsLD50/LC50 = Not available
Irritation/Corrosion:	Skin: May cause skin irritation. Eyes: May cause eye irritation. Respiratory: May cause respiratory tract irritation.
Sensitization:	May cause sensitization due to the potential presence of trace amounts of hexavalent chromium.
Mutagenicity:	Not classified.
Reproductive toxicity:	Not classified.
Teratogenicity:	Not classified.
Aspiration hazard:	Not classified.

Carcinogenicity Classification:

Ingredient	OSHA	IARC	ACGIH	NTP
Quartz (crystalline silica)	–	1	A2	Known to be a human carcinogen.

Specific target organ toxicity (single exposure): Product not classified

Ingredient	Category	Route of Exposure	Target Organs
Quartz (crystalline silica)	Category 3	Inhalation	Respiratory tract irritation

Specific target organ toxicity (repeated exposure): Product not classified

Ingredient	Category	Route of Exposure	Target Organs
Quartz (crystalline silica)	Category 2	Inhalation	Respiratory tract and kidneys

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## Routes of exposure - Dermal contact, Eye contact, Inhalation, and Ingestion.

<b>Potential acute health effects:</b>	<p><b>Eye contact:</b> May cause eye irritation.</p> <p><b>Inhalation:</b> May cause respiratory irritation.</p> <p><b>Skin contact:</b> May cause irritation.</p> <p><b>Ingestion:</b> Not an anticipated route of entry. May cause gastrointestinal discomfort.</p>
<b>Symptoms related to the physical, chemical and toxicological characteristics:</b>	<p><b>Eye contact:</b> Adverse symptoms may include the following: pain, watering, redness</p> <p><b>Inhalation:</b> Adverse symptoms may include the following: respiratory tract irritation, coughing</p> <p><b>Skin contact:</b> Adverse symptoms may include the following: pain or irritation, redness,</p> <p><b>Ingestion:</b> Adverse symptoms may include the following: stomach pains</p>
<b>Delayed and immediate effects and also chronic effects from short and long term exposure:</b>	<p><b>Short term exposure</b></p> <p>Potential immediate effects: No known significant effects or critical hazards.</p> <p>Potential delayed effects: No known significant effects or critical hazards.</p> <p><b>Long term exposure</b></p> <p>Potential immediate effects: No known significant effects or critical hazards.</p> <p>Potential delayed effects: No known significant effects or critical hazards.</p>
<b>Potential chronic health effects:</b>	<p><b>General:</b> Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. If sensitized to hexavalent chromium, a severe allergic dermal reaction may occur when subsequently exposed to very low levels.</p> <p><b>Carcinogenicity:</b> Quartz (crystalline silica) is considered a hazard by inhalation. IARC has classified Quartz (crystalline silica) as a Group 1 substance, carcinogenic to humans. This classification is based on the findings of laboratory animal studies (inhalation and implantation) and epidemiology studies that were considered sufficient for carcinogenicity. Excessive exposure to Quartz (crystalline silica) can cause silicosis, a non-cancerous lung disease.</p> <p><b>Mutagenicity:</b> No known significant effects or critical hazards.</p> <p><b>Teratogenicity:</b> No known significant effects or critical hazards.</p> <p><b>Developmental effects:</b> No known significant effects or critical hazards.</p> <p><b>Fertility effects:</b> No known significant effects or critical hazards.</p>
<b>Numerical measures of toxicity:</b>	There are no data available - acute toxicity estimates.

## Section 12. Ecological

### Toxicity

Persistence and degradability:	There are no data available.
Bioaccumulation potential:	There are no data available.
Mobility in soil:	Soil/water partition coefficient (Koc): Not available.
Other adverse effects:	No known significant effects or critical hazards.
Ecotoxicity:	No recognized unusual toxicity to plants or animals

## Section 13. Disposal Considerations

Disposal methods:	Salvage spilled sand and gravel where possible. Uncontaminated sand and gravel may be reused. Dispose of waste material in accordance with local, state and federal laws and regulations.
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## Section 14. Transport Information

Special precautions for user: Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/ 78 and the IBC Code: Not Regulated.

Transport Parameters	DOT Classification	IMDG	IATA
UN Number	Not Regulated	Not Regulated	Not Regulated
UN Proper Shipping Name	-	-	-
Transport Hazard Class	-	-	-
Packing Group	-	-	-
Environmental Hazard	None	None	None
Additional Information	-	-	-

## Section 15. Regulatory Information

### Status under USDOL-OSHA Hazard Communication Rule, 29 CFR 1910.1200

This product 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

This product qualifies as a "hazardous substance" with delayed health effects.

### Status under SARA (Title III), Section 313

This product does not contain Emergency Planning and Community Right to Know (EPCRA) Section 313 chemicals in excess of the applicable de minimis concentration specified in EPCRA Section 313 Section 372.38(a). Trace amounts of naturally occurring chemicals might be detected during chemical analysis.

### Status under TSCA (as of May 1997)

The ingredients of this product are listed on the TSCA inventory or are exempt.

### Status under the Federal Hazardous Substances Act

This product 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.

### State Right to Know:

#### *Quartz (crystalline silica) (14808-60-7)*

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Washington - Permissible Exposure Limits - TWAs

#### *Limestone (1317-65-3)*

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Washington - Permissible Exposure Limits - TWAs



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## Section 16. Other Information

### Approval or Revision History

Date of issue (mm/dd/yyyy): July 1998  
 Revision: April 2011 (Michael Tilton)  
 Revision: Jun 2015 - Revised Section(s) per HCS-GHS  
 Revision: April 2017 – related to address

### Notice to reader

While the information provided in this safety data sheet is believed to provide a useful summary of the hazards of Aggregate Products as it is commonly used, the sheet cannot anticipate and provide all of the information that might be needed in every situation. Inexperienced product users should obtain proper training before using this product. In particular, the data furnished in this sheet do not address hazards that may be posed by other materials mixed with Aggregates to produce Aggregate products. Users should review other relevant material safety data sheets.

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### Abbreviations

ACGIH — American Conference of Governmental Industrial Hygienists  
 CAS — Chemical Abstract Service  
 CERCLA — Comprehensive Emergency Response and Comprehensive Liability Act  
 CFR — Code of Federal Regulations DOT — Department of Transportation  
 GHS – Globally Harmonized System Globally Harmonized System  
 HEPA - High Efficiency Particulate Air  
 IATA — International Air Transport Association  
 IARC — International Agency for Research on Cancer  
 IMDG — International Maritime Dangerous Goods  
 NIOSH — National Institute of Occupational Safety and Health  
 NOEC — No Observed Effect Concentration  
 NTP — National Toxicology Program  
 OSHA — Occupational Safety and Health Administration  
 PEL — Permissible Exposure Limit  
 REL — Recommended Exposure Limit RQ — Reportable Quantity  
 SARA — Superfund Amendments and Reauthorization Act  
 SDS — Safety Data Sheet  
 TLV — Threshold Limit Value  
 TPQ — Threshold Planning Quantity  
 TSCA — Toxic Substances Control Act  
 TWA — Time-Weighted Average  
 UN — United Nations