



# MATERIAL SAFETY DATA SHEET

## Crushed Stone

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Crushed Stone**  
Synonyms: Construction Aggregate  
Chemical Family: None

Company Identification: CALPORTLAND COMPANY  
2025 E. Financial Way  
Glendora, CA 91741  
(626) 852-6200  
[www.calportland.com](http://www.calportland.com)

Prepared By: Paul Eigbrett (MSDS Authoring Services)  
Approved By: Jay Grady  
Approval Date: August 8, 2009

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

#### CONTAINING: HAZARDOUS AND/OR REGULATED COMPONENTS

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>	<u>OSHA PEL (ppm) Total Dust</u>	<u>OSHA PEL (ppm) Respirable Dust</u>	<u>ACGIH TLV (ppm) Total Dust</u>
Metamorphic, Igneous, or Sedimentary Rock	97 - 99%	NA	NE	NE	NE
Crystalline Silica	>1%	14808-60-7	2 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>

#### COMPOSITION COMMENT: --

Exposure limits vary with the % Quartz in dust. All limits are for 8-hr. TWA exposures.  
Total dust (ACGIH & MSHA = 30 mg/m<sup>3</sup> divided by (% quartz + 3)  
Respirable dust (ACGIH, MSHA & OSHA) = 10 mg/m<sup>3</sup> divided by (% quartz + 2)  
Crushed Granite Rock is not listed by NTP, IARC or OSHA as containing carcinogens.

Trace Elements: These materials are mined from the earth. Trace amounts of naturally occurring elements might be detected during chemical analysis of these materials.

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**WARNING!** NATURAL AGGREGATE CAN CAUSE ABRASION OR IRRITATION TO SKIN AND EYES. NATURAL AGGREGATE CAN CAUSE GASTROINTESTINAL IRRITATION IF INGESTED. RESPIRABLE DUST INHALED OVER A PERIOD OF TIME COULD CONSTITUTE A HEALTH HAZARD. DUST FROM SOME NATURAL AGGREGATES WILL CONTAIN RESPIRABLE CRYSTALLINE SILICA.

# MATERIAL SAFETY DATA SHEET

## Crushed Stone

### Routes of Exposure:

**Eye Contact:** Exposure to airborne dust during the handling of this product may cause immediate or delayed irritation.

**Skin Contact:** This product can cause abrasion and irritation to the skin.

**Ingestion:** This product can cause gastrointestinal irritation if ingested.

**Inhalation:** The ingredients in this product could contain crystalline silica. Exposure to these ingredients in excess of the applicable TLV or PEL (see Section 2) may cause or aggravate other lung conditions. Exposure may cause irritation to the moist mucous membranes of the nose, throat, and upper respiratory system.

**Medical Conditions which May be Aggravated by Inhalation or Dermal Exposure:** Pre-existing upper respiratory and lung diseases by exposure to this product.

**Carcinogenic Potential:** This product is not listed as a carcinogen by NTP, OSHA, or IARC. It may, however, contain trace amounts of substances listed as carcinogens by these organizations including but not limited to: crystalline silica, hexavalent chromium, lead compounds, mercury compounds, nickel compounds, and possibly other chemicals which may result in exposures which require the following warning pursuant to California Proposition 65:

**WARNING:** This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

## 4. FIRST AID MEASURES

**Eyes:** Immediately flush eyes thoroughly with water. Call physician if irritation persists.

**Skin:** Wash skin with soap and water. Call physician if irritation persists.

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

**Inhalation of Airborne Dust:** Remove to fresh air. Seek medical help if coughing and other symptoms do not subside.

## 5. FIRE FIGHTING MEASURES

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 & Explosion Hazards - None

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** 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 8.

# MATERIAL SAFETY DATA SHEET

## Crushed Stone

**Method of Cleaning:** Vacuum cleaning is the preferred method for the dry fine materials. Avoid dry sweeping which creates dust. Apply water spray to prevent airborne dust. Scrape up wet material and place in an appropriate container.

### 7. HANDLING AND STORAGE

Normal temperatures and pressures do not affect the material.

Promptly remove dusty clothing and launder before reuse.

Wash thoroughly after exposure to dust.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Eye Protection:** When engaged in activities where ingredients could contact the eye, wear safety glasses with side shields or goggles. 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 ingredients.

**Skin Protection:** Prevention is essential to avoiding potentially severe skin injury. Avoid contact products ingredients. If contact occurs, promptly wash affected area with soap and water. Where prolonged exposure to products might occur, wear impervious clothing and gloves to eliminate skin contact.

**Respiratory Protection:** Avoid actions that cause dust exposure to occur. Use local or general ventilation to control exposures below applicable exposure limits. NIOSH or MSHA approved particulate filter respirators should be used in the context of respiratory protection program meeting the requirements of the OSHA respiratory protection standard [29 CFR 1910.134] to control exposures when ventilation or other controls are inadequate or discomfort or irritation is experienced. Respirator and/or filter cartridge selection should be based on American National Standards Institute (ANSI) Standards Z88.2 Practices for Respiratory Protection.

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

**Hygiene:** Wash dust exposed skin with soap and water before eating, drinking, smoking, and using toilet facilities. Wash work clothes after each use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** – Granular Mixture-Variou colors  
**Odor** – No Distinct Odor  
**Physical State** – Solid  
**Specific Gravity (H<sub>2</sub>O=1)** – 2.25 – 2.80  
**pH (in water) (ASTM D 1293-95)** – Not Applicable  
**Solubility in Water** – Not Applicable

**Vapor Pressure** – Not Applicable  
**Vapor Density** – Not Applicable  
**Boiling Point** – Not Applicable  
**Melting Point** – Not Applicable  
**Evaporation Rate** – Not Applicable

### 10. STABILITY AND REACTIVITY

**Stability:** Stable.

# MATERIAL SAFETY DATA SHEET

## Crushed Stone

**Conditions to avoid:** Contact with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, and oxygen difluoride may cause fire and/or explosions. Silica dissolves in hydrofluoric acid producing a corrosive gas – silicon tetrafluoride.

**Hazardous Polymerization:** Hazardous polymerization will not occur.

**Incompatibility with other materials:** None

**Hazardous Decomposition:** Will not spontaneously occur.

### 11. TOXICOLOGICAL INFORMATION

**Acute Effects:** None known.

**Chronic Effects / Carcinogenicity:** Crystalline Silica: Exposures to respirable crystalline silica are not expected during the normal use of this product. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease and/or lung cancer. IACR states that crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).

Caution – Respirable dust could, if inhaled over a prolonged period of time constitute a health hazard.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Dust can cause soiling and damage sensitive vegetation after prolonged exposure. Aggregates are classified inert and not considered to pose ecological concern.

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal:** Non-Hazardous. Dispose of waste material according to local, state and federal regulations.

### 14. TRANSPORTATION INFORMATION

**Hazardous Materials Description/Proper Shipping Name:** Natural Aggregates are 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:** Not Applicable

**Recommendations:** Dry fine materials best transported by bulk tanker or sealed bags. Aggregates should be sheeted or conditioned with water to minimize dust.

# MATERIAL SAFETY DATA SHEET

## Crushed Stone

### 15. REGULATORY INFORMATION

**FEDERAL REGULATORY STATUS:**

**Status under OSHA Hazard Communication Standard, 29 CFR 1910.1200:** Natural Aggregate is considered a "hazardous chemical" (because of its health hazard) under this regulation, and should be included in the employer's hazard communication program.

**Reportable Quantities Under the Clean Water Act, CERCLA, and EPCRA, 40 CFR 117, 302 and 355:** Natural aggregates are not listed.

**Status Under the Toxic Substances Control Act, 40 CFR 710:** Not Applicable.

**Status under Workplace Hazardous Materials Information System (WHMIS), Canada:** Crushed Stone is considered to be a hazardous material under the Hazardous Products 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). Labeling not required

**Status under Canadian Environmental Protection Act:** Not Listed.

### 16. OTHER INFORMATION

**Label Requirements:**

**WARNING!** CRUSHED STONE CAN CAUSE ABRASION OR IRRITATION TO SKIN AND EYES. NATURAL AGGREGATE CAN CAUSE GASTROINTESTINAL IRRITATION IF INGESTED. RESPIRABLE DUST INHALED OVER A PERIOD OF TIME COULD CONSTITUTE A HEALTH HAZARD. DUST FROM SOME NATURAL AGGREGATES WILL CONTAIN RESPIRABLE CRYSTALLINE SILICA.

Hazardous Material Information System (HMIS):	<b>Health</b>	<b>1</b>
	<b>Flammability</b>	<b>0</b>
	<b>Physical Hazard</b>	<b>0</b>
	<b>Personal Protection</b>	<b>A</b>

NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme  
 Protective Equipment: Safety glasses, gloves

# **MATERIAL SAFETY DATA SHEET**

## **Crushed Stone**

### ADDITIONAL INFORMATION:

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY CALPORTLAND , except that the product shall conform to contracted specifications. The information provided herein was believed by CalPortland Company to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. Buyer's exclusive remedy shall be for damages and no claim of any kind, whether as to product delivered or for non-delivery of product, and whether based on contract, breach of warranty, negligence, or otherwise shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

END OF MSDS