Material Safety Data Sheet

I. Product and Supplier Information

Product Name: Boulder Creek Brick / Tile Products
Product Number: NA
Product Synonyms: Calcium compounds

MSDS Number: BCBTP
Publication Date: Apr. 30, 2004
Replaces: New

Chemical Family or Formula: Tinted portland cement products

Supplier: Boulder Creek Stone Products
8282 Arthur St. N.E.
Minneapolis, MN 55432
Phone: 763-786-7138
Fax: 763-786-7276
Web page: www.bouldercreekstone.com
Product Information: 763-786-7138
Transportation Emergency: 763-786-7138

Note: The purpose of this MSDS is to provide safe handling, shipping and disposal information for users of the product. It is not intended to, nor does it, provide complete or extensive toxicological data on the product or its components.

II. Composition and Information on Ingredients

CAS #	SARA 313 On?	Material or Component	De minimis RQ#	Exposure Limits (ppm) TWA*	STEL*	WEEL*
These articles are not hazardous materials as offered in commerce. If the article is subject to a process which produces a dust, the following components may be present. Appropriate Personal Protection Equipment should be worn under these circumstances.						
65997-15-1	No	Portland cement	None	10 mg/m3		
14464-56-1	No	Cristobalite (Crystalline silica)	None	0.05 mg/m3		
14804-60-7	No	Silica Quartz (Crystalline silica) 65	None	0.05 mg/m3		
60676-86-0	No	Amorphous silica	None	10 mg/m3; 15 mg/m3 PEL		
7631-86-9	No	Silicon dioxide (Amorphous)	None	10 mg/m3; 6 mg/ m3 PEL		
1317-61-9	No	Iron Oxide, black	None	10 mg/m3; 15 mg/m3 PEL		
51274-00-1	No	Iron Oxide, yellow	None	10 mg/m3; 15 mg/m3 PEL		
1332-37-2	No	Iron Oxide, red (or CAS 1309-37-1)	None	10 mg/m3; 15 mg/m3 PEL		

Due to the use of substances mined from the earth's crust, trace amounts of naturally occurring, potentially harmful constituents may be detected during chemical analysis. Portland cement may contain up to 0.75% insoluble residue. A small amount of this residue includes free crystalline silica. Portland cement also may contain trace (<0.05%) amounts of chromium salts or compounds (including hexavalent chromium) or other metals (including nickel compounds) found to be hazardous or toxic in some chemical forms. These metals are present mostly as trace substitutions within the principal minerals.

No component is listed in "Threshold and Biological Exposure Indices for 2004" from ACGIH except as noted above.
Components listed in Title III Sec. 313 (EPCRA) are indicated by "Yes" above.
*TWA= Time Weighted Average; STEL= Short Term Exposure Limit; WEEL= Workplace Employee Exposure Level
NE= Not Established "De minimis" = Threshold reporting limit for SARA 313 for this material.

III. Hazards Identification

Emergency Overview:

These articles offer no hazard as made and shipped. Hazards described generally refer to dust produced during subsequent cutting or grinding, and are offered to users in the interest of their health and safety.

Routes of Entry:

Inhalation, eye contact, skin contact, ingestion

Chemical Interactions:

No significant interactions known.

Medical Conditions Aggravated:

Pre-existing upper respiratory and lung diseases may be aggravated by inhalation of portland cement.

Human Threshold Response Data

Odor Threshold: Not established
Irritation Threshold: Not established

Hazard Category Classifications and Ratings for dust if produced

Hazard Categories:	Health	Fire	Pressure	Reactivity	Reference 49 CFR 171.8,

Immediate	Yes	Yes	No	Yes	OSHA 29 CFR 1910.1200 and
Delayed	No	No	No	No	SARA 302/311/312/313.
HMIS Hazard Ratings: Health 1 Fire 0 Instability 0 Other A, t (Safety glasses, Dust respirator)					
NFPA 704 Hazard Ratings: Health 1 Flammability 0 Reactivity 0 Special NA					
Hazard Ratings: Least: 0 Slight: 1 Moderate: 2 High: 3 Extreme: 4					

* "Yes" in Delayed Fire hazard category indicates that this material poses a spontaneous combustion hazard.

Hazards Identification (continued)

Breathing

Inhalation may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system or may cause or may aggravate certain lung diseases or conditions. Use exposure controls or personal protection methods described in Section 12

Skin Contact:

May cause skin irritation.

Eye contact:

May cause severe irritation.

Swallowing:

Not a likely occurrence.

Conditions aggravated by exposure:

Pre-existing upper respiratory and lung diseases may be aggravated by inhalation of portland cement.

Prolonged (Chronic) Health Effects

Inhalation exposure to free crystalline silica may cause delayed lung injury including silicosis, a disabling and potentially fatal lung disease, and/or cause or aggravate other lung diseases or conditions.

IV. First Aid

Inhalation:

Remove individual to fresh air. If not breathing, give artificial respiration or oxygen as appropriate.

Skin Contact:

Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment if irritation or or inflammation develops or persists. Seek immediate medical treatment in the event of burns.

Eyes:

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

Ingestion:

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

V. Fire Fighting Measures

Flammability Summary (OSHA):

Flammable Properties: Material will not burn under any circumstances.

Flash Point:	None
Autoignition Temperature:	None
Upper Flammable/Explosive Limit, % in a	None
Lower Flammable/Explosive Limit, % in a	None
Fire/Explosion Hazards:	None

Extinguishing Media:

Use equipment appropriate to the main cause of the fire.

Fire Fighting Instructions:

Use equipment appropriate to the main cause of the fire.

VI. Accidental Release Measures

General:

No significant hazard is offered.

Small Spill:

Sweep up for disposal as a non hazardous dry waste.

Large Spill:

Sweep up for disposal as a non hazardous dry waste.

VII. Handling and Storage

Handling:

Handle with skin protection appropriate to roughness and amount of handling.

Storage

No restrictions on storage.

VIII. Exposure Controls and Personal Protection

Ventilation:

No significant hazard is offered. Avoid creating and breathing dust.

Protective Equipment for Routine Use of Product Where Appropriate:

Respiratory Protection:

Use NIOSH/MSHA approved dust mask when airborne exposure may exceed exposure limits.

Skin:

Wear tough gloves to protect skin during extended handling.

Eyes:

Use safety glasses with side shields when cutting or grinding the articles.

Protective Clothing Type:

Wear abrasion resistant clothing as appropriate for handling and contact with product.

Exposure Limit Data : See Section II

IX. Physical Data

Physical State:	Various shapes and sizes	Vapor Density (Air = 1):	Not volatile
Color:	Various colors	Vapor Pressure 20'C:	None
Odor:	Nil	Evaporation Rate (Butyl acetate =1):	Not applicable
		Volatiles % by vol.:	Nil
Molecular Weight:	Not available	Boiling Point @ 20 mm Hg:	NA
pH (@ 25 Deg. C):	Not applicable	Freezing Point:	NA
Octanol/Water Coeff:	No data		
Solubility in Water:	Insoluble		
Bulk Density:	Not applicable		
Specific Gravity:	Approx. 2.5-3		

X. Stability and Reactivity

Stability and Reactivity Summary:

Stable under normal conditions.

Reactive Properties:

Sensitivity to mechanical shock:	None
Hazardous Polymerization:	Cannot occur.
Conditions to Avoid:	None
Chemical Incompatibility:	None
Incompatible materials:	None
Hazardous decomposition Products	None
Decomposition Temperature:	Not determined

Product May Be Unstable At Temperatures Above: none

XI. Toxicological Information

Component Animal Toxicology

Results for product:

Oral LD50 value mg/kg:	No relevant data for reacted portland cement.
Dermal LD50 value mg/kg:	No relevant data for reacted portland cement.
Inhalation LC50 value:	No relevant data for reacted portland cement.

Component Data:
No data.
Mutagenicity:
No data.
Carcinogenicity:
This chemical is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA.

XII. Ecological Information

Ecological Toxicity Values:
Environmental fate: No information found
Environmental Toxicity: No information found

XIII. Disposal Considerations

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THIS MATERIAL THE USER OF THIS MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS
Waste Disposal Summary:
Product as supplied does not qualify as a hazardous waste.
Potential US EPA Waste Codes:
Not applicable.
Disposal Methods:
Dispose of in accordance with local, state and federal regulations.
Components subject to land ban restrictions:
No components subject to land ban restrictions.

XIV. Transportation Information

Proper Shipping Name, Hazard Class, UN/NA Number Packing Group, Emergency Response Guide Number	
	Not regulated.
Labels required per 49 CFR 172.101:	None
Size for "Limited quantity" per 49 CFR 173.150-.155:	Not applicable
Reportable Quantity ("RQ") per 49 CFR172.101:	None
Passenger and Cargo Air & Rail (172.101):	Not regulated
Eff. Jan 1, 2001 Cargo only:	Not regulated
Vessel Stowage:	Not regulated

XV. Regulatory Information for Product as Supplied

UNITED STATES:
Toxic Substances Control Act (TSCA):
The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.
Pesticide acceptance indication: US EPA Registration Number:
Not applicable
California Prop. 65: This dust of product contains crystalline silica, a substance known to the State of California to cause cancer. This product also may contain trace amounts of heavy metals known to the State of California to cause cancer, birth defects or other reproductive harm.
Hazard Categories Sections 311/312 (40 CFR 370.2):
Health:

Acute	No	Fire:	No	Pressure:	No
Chronic	No	Reactivity:	No		

Emergency Planning & Community Right to Know (40 CFR 355, App. A):

Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:
None
Reportable Quantity (40 CFR 302.4):
None
State Right-to-Know Regulations Status of Ingredients
Pennsylvania: None
New Jersey: None
Massachusetts: None

XVI. Additional Information

MSDS REVISION STATUS:

This MSDS is intended to provide adequate information for the safe industrial use of the product. It is not intended as a comprehensive reference for its component pure materials.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. WE BELIEVE THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF ITS PUBLICATION DATE, BUT MAKE NO WARRANTY THAT IT IS. IF THIS MSDS IS MORE THAN THREE YEARS OLD YOU SHOULD CONTACT THE SUPPLIER TO MAKE CERTAIN THAT THE INFORMATION IS CURRENT.

MSDS data source: Holnam and Lehigh Portland cement