Material Safety Data Sheet

I. Product and Supplier Information							
Product Name: Boulder Creek Stone / Landscaping Products				MSDS Number: BCLSP			
Product Nu	umber: NA			Pu	blication Da	ate: Apr	[.] 30, 2004
Product Synonyms: Calcium compounds				Re	places:	Nev	N
Chemical F	Family or Formu	Ila: Tinted clay cement produ	ıcts				
Supplier:	Boulder Creek	Stone Products P	hone:	763-786-	7138		
8282 Arthur St. N.E. Fax:			ax:	763-786-	7276		
	Minneapolis, N	VIN 55432 V	Veb page	: <u>www.boul</u>	<u>dercreekstor</u>	<u>ne.com</u>	
Product Inf	formation:	763-786-7138					
Transporta	tion Emergency	y: 763-786-7138					
Note: The	purpose of this	MSDS is to provide safe handling,	shipping	and dispos	sal informat	tion for	users of the
product. It	is not intended	to, nor does it, provide complete or	^r extensiv	e toxicolog	ical data o	n the pr	oduct or its
componen	ts.						
II. Composition and Information on Ingredients							
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CAS #	SARA 313	Material or Component	ients		Exposur	re Limits	s (ppm)
CAS #	SARA 313 On? De min	Material or Component	ients	RQ# TV	Exposur /A* S ⁻	re Limits TEL*	s (ppm) WEEL*
CAS #	SARA 313 On? De min cles are not haz	Material or Component Material or Component imis cardous materials as offered in com	ients imerce. If	RQ# TW f the article	Exposur /A* S ⁻ is subject t	re Limits TEL* to a pro-	s (ppm) WEEL* cess which produces
CAS # These artic a dust, the	SARA 313 On? De mini cles are not haz following com	Material or Component imis ardous materials as offered in com ponents may be present. Appropria	imerce. If	RQ# TW the article nal Protect	Exposur /A* S ⁻ is subject t ion Equipm	re Limits TEL* to a producent	s (ppm) WEEL* cess which produces ould be worn under
CAS # These artic a dust, the these circu	SARA 313 On? De mini cles are not haz following com imstances.	Material or Component imis ardous materials as offered in com ponents may be present. Appropria	imerce. If	RQ# TW the article nal Protect	Exposur /A* S ⁻ is subject t ion Equipm	re Limits TEL* to a pro- ient sho	s (ppm) WEEL* cess which produces ould be worn under
CAS # These artic a dust, the these circu 65997-15-	SARA 313 On? De mini cles are not haz following com imstances. 1 No	Material or Component imis cardous materials as offered in com ponents may be present. Appropria Portland cement	imerce. If	RQ# TW the article nal Protect None	Exposur /A* S ⁻ is subject t ion Equipm 10 mg/n	e Limits TEL* to a pro- ent sho	s (ppm) WEEL* cess which produces ould be worn under
CAS # These artic a dust, the these circu 65997-15- 14464-56-	SARA 313 On? De mini cles are not haz following com imstances. 1 No 1 No	Material or Component imis cardous materials as offered in com ponents may be present. Appropria Portland cement Cristobalite (Crystalline silica)	ients imerce. If ite Persor	RQ# TW the article nal Protect None None	Exposur /A* S is subject t ion Equipm 10 mg/n 0.05 mg	re Limits TEL* to a pro- lent sho n3 j/m3	s (ppm) WEEL* cess which produces ould be worn under
CAS # These artic a dust, the these circu 65997-15- 14464-56- 14804-60-	SARA 313 On? De mini cles are not haz following comp imstances. No No No No	Atterial or Component Material or Component mis ardous materials as offered in com ponents may be present. Appropria Portland cement Cristobalite (Crystalline silica) Silica Quartz (Crystalline silica)	ients imerce. If ite Persor	RQ# TW the article nal Protect None None None	Exposur /A* S is subject t ion Equipm 10 mg/n 0.05 mg 0.05 mg	re Limits TEL* to a prov lent sho n3 j/m3 j/m3	s (ppm) WEEL* cess which produces ould be worn under
CAS # These artic a dust, the these circu 65997-15- 14464-56- 14804-60- 60676-86-0	SARA 313 On? De mini cles are not haz following com imstances. No No No No No	Atterial or Component Material or Component mis ardous materials as offered in com ponents may be present. Appropria Portland cement Cristobalite (Crystalline silica) Silica Quartz (Crystalline silica) Amorphous silica	ients imerce. If ite Persor	RQ# TW the article nal Protecti None None None None	Exposur /A* S is subject t ion Equipm 10 mg/n 0.05 mg 0.05 mg 10 mg/n	re Limits FEL* to a pro- lent sho n3 J/m3 J/m3 n3; 15 n	s (ppm) WEEL* cess which produces juld be worn under ng/m3 PEL
CAS # These artic a dust, the these circu 65997-15- 14464-56- 14804-60- 60676-86-0 7631-86-9	SARA 313 On? De mini cles are not haz following com imstances. No No No No	Atterial or Component Material or Component mis ardous materials as offered in com ponents may be present. Appropria Portland cement Cristobalite (Crystalline silica) Silica Quartz (Crystalline silica) Amorphous silica Silicon dioxide (Amorphous)	imerce. If ite Persor	RQ# TW the article nal Protecti None None None None None	Exposur /A* S ⁻ is subject t ion Equipm 10 mg/n 0.05 mg 0.05 mg 10 mg/n 10 mg/n	re Limits FEL* to a pro- lent sho n3 i/m3 n3; 15 n n3; 6 m	s (ppm) WEEL* cess which produces juld be worn under ng/m3 PEL g/ m3 PEL
CAS # These artic a dust, the these circu 65997-15 14464-56 14804-60 60676-86-0 7631-86-9 1317-61-9	SARA 313 On? De mini cles are not haz following comp imstances. No No No No No No	Atterial or Component Material or Component mis cardous materials as offered in com conents may be present. Appropria Portland cement Cristobalite (Crystalline silica) Silica Quartz (Crystalline silica) Amorphous silica Silicon dioxide (Amorphous) Iron Oxide, black	imerce. If ite Persor	RQ# TW the article nal Protecti None None None None None None	Exposur /A* S ⁻ is subject t ion Equipm 10 mg/n 0.05 mg 0.05 mg 10 mg/n 10 mg/n 10 mg/n	re Limits FEL* to a provi lent sho n3 l/m3 n3; 15 n n3; 6 mu n3; 15 n	s (ppm) WEEL* cess which produces ould be worn under ng/m3 PEL g/ m3 PEL ng/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.

None

10 mg/m3; 15 mg/m3 PEL

Iron Oxide, red (or CAS 1309-37-1)

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

No

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:

1332-37-2

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 C	Other A	, t (Safety glasses, Dust respirator)
NFPA 704 Hazard Ratings: Health 1 Flammability 0 Reactivity 0 Special NA					
Hazard Ratings: Lea	st: 0 Slig	ht: 1 Moc	derate: 2	High: 3 Ex	treme: 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

IX. I Hysical Dat	a					
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 Reactive	ity Summary:				_	
Stable under nor	rmal conditions.					
Reactive Properties:						
Sensitivity to mechanic	Sensitivity to mechanical shock: None					

Hazardous Polymerization:	Cannot occur.	
Conditions to Avoid:	None	
Chemical Incompatibility:	None	
Incompatible materials:	None	
Hazardous decomposition Product	None	
Decomposition Temperature:	Not determined	
Product May Be Unstable At Temp	eratures Above:	none

roduct May Be Unstable At Temperatures Above:

XI. Toxicological Information

Component Animal Toxicology

Results for product:

Oral LD50 value mg/kg: Dermal LD50 value mg/kg: Inhalation LC50 value:

No relevant data for reacted portland cement. No relevant data for reacted portland cement. No relevant data for reacted portland cement. Component Data: No data. Mutagenicity:

No data.

Carcinogenicity: These articles are not known or reported to be carcinogenic by any reference source. However, the dust of from these items 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.

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 173.150155:	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		
				055 4	۸ ۱ .

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