SECTION 1: IDENTIFICATION

PRODUCT NAME: Borderstone, Classic Garden Step, Classic Pilaster Cap, Classic Riser Tile, Classic Wall Cap, Classic Walks, Del Rio Pavers, Modern Garden Step, Narrow Modular Pavers, Pool Coping, Riser Landings, Sonorastone, Sonorastone Pilaster Cap, Sonorastone Wall Cap, Stair Treads

SYNONYMS: precast concrete, hardened concrete, hardened cement with aggregate

MANUFACTURER: Stepstone, Inc.
ADDRESS: 17025 S Main St, Gardena CA 90248
EMERGENCY PHONE: 310 217-1424

RECOMMENDED USE: construction and landscaping: wall capping, pavers, stairs

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Health Hazard Classification

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Signal Word</th>
<th>Hazard Statement</th>
<th>Pictogram</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irritation</td>
<td>Warning</td>
<td>Causes skin irritation</td>
<td>![Pictogram]</td>
</tr>
<tr>
<td>Eye Irritation</td>
<td>Danger</td>
<td>Airborne particulate from cutting or demolition may cause serious eye damage.</td>
<td>![Pictogram]</td>
</tr>
<tr>
<td>Carcinogen</td>
<td>Danger</td>
<td>May cause cancer if airborne particles from cutting or demolition are inhaled.</td>
<td>![Pictogram]</td>
</tr>
</tbody>
</table>

GHS Environmental Hazard Classification

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Signal Word</th>
<th>Hazard Statement</th>
<th>Pictogram</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Aquatic Toxicity</td>
<td>none</td>
<td>harmful to aquatic life</td>
<td>none</td>
</tr>
</tbody>
</table>

GHS Physical Hazard Classification

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Signal Word</th>
<th>Hazard Statement</th>
<th>Pictogram</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical</td>
<td>none</td>
<td>none</td>
<td>none</td>
</tr>
</tbody>
</table>

PRECAUTIONARY STATEMENTS:

Prevention:
P202: Do not handle until all safety precautions have been read and understood.
P264: Wash hands thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear work gloves to handle this product, and eye protection / respiratory protection if cutting or demolishing the product.

Response:
P302 + P352: IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338 + P313: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313: IF exposed or concerned: Get medical advice/attention.
P332 + P313: If skin irritation occurs: Get medical advice/attention.
P314: Get medical advice/attention if you feel unwell.
P362 + P364: Take off contaminated clothing and wash it before reuse.

Storage:
P402: Store in a dry place.

Disposal:
P501: Dispose of product in accordance with local regulations as construction debris.

HAZARDS NOT OTHERWISE CLASSIFIED: none

STATEMENT ON % OF MIXTURE CONTAINING INGREDIENTS(S) WITH UNKNOWN ACUTE TOXICITY: 96% of this mixture has unknown acute toxicity.
## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### HAZARDOUS INGREDIENTS:

<table>
<thead>
<tr>
<th>CHEMICAL NAME (Common Name)</th>
<th>CAS Number</th>
<th>QUANTITY Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>crystalline silica aggregate** (from rock) and crystalline quartz** (from sand)</td>
<td>14808-60-7</td>
<td>55-70</td>
</tr>
<tr>
<td>Portland cement (hydraulic calcium silicates)</td>
<td>65997-15-1</td>
<td>15-20</td>
</tr>
<tr>
<td>Aluminum oxide</td>
<td>1344-28-1</td>
<td>5-10</td>
</tr>
<tr>
<td>Calcium oxide</td>
<td>1305-78-8</td>
<td>0-5</td>
</tr>
<tr>
<td>Iron(II) oxide</td>
<td>1345-25-1</td>
<td>0-2</td>
</tr>
<tr>
<td>Potassium oxide</td>
<td>12136-45-7</td>
<td>0-2</td>
</tr>
<tr>
<td>Sodium oxide</td>
<td>1313-59-3</td>
<td>0-2</td>
</tr>
<tr>
<td>Iron(III) oxide</td>
<td>1309-37-1</td>
<td>0-2</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>0-1</td>
</tr>
<tr>
<td>Magnesium oxide</td>
<td>1309-48-4</td>
<td>0-1</td>
</tr>
</tbody>
</table>

*TRADE SECRET STATEMENT: The exact concentration of composition has been withheld as a trade secret.

## SECTION 4: FIRST AID MEASURES

### Inhalation

This is not a possible route of entry during normal use. IF INHALED: Remove person to particulate-free fresh air and keep comfortable for breathing. Get medical advice/attention if person feels unwell.

### Skin

If ON SKIN (or hair): If irritation occurs, flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops and persists.

### Eyes

This is not a possible route of entry during normal use. IF IN EYES: Do not rub or scratch eyes. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Get medical attention.

### Ingestion

This is an unlikely route of exposure. IF SWALLOWED: Do Not induce vomiting unless directed to do so by medical personnel. Get medical advice/attention.

#### Most Important Acute Symptoms or Effects

- Sneezing, coughing, wheezing. Respiratory ailments (including bronchitis, emphysema, COPD) may be aggravated by exposure to particulate generated by cutting or demolition of this product.
- Skin contact with dry hardened concrete may cause redness or other signs of irritation/abrasion. Skin contact with wet hardened concrete will cause irritation and burns.
- Particulate/dusts from demolition or cutting of product may cause abrasion, irritation, redness and/or watering, swelling of the eyes.
- Rubbing the eyes with concrete-contaminated hands will result in serious eye irritation and possible corneal burns.
- The alkaline nature of wet cured concrete may burn mouth and esophagus.

#### Most Important Delayed Symptoms of Effects

- Chronic exposure to dust generated from cutting, grinding, crushing, or drilling hardened concrete may cause bronchitis.
- Sensitized individuals may develop allergic dermatitis through skin contact with wet cured concrete.
- Corneal abrasion
- Corneal burns
- Ingestion of large amounts may cause gastrointestinal irritation and obstruction.
SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Equipment Specific Hazards that Develop from the Surrounding Fire Protective Equipment

Use extinguishing media appropriate for surrounding fire.
This product does not ignite or support combustion. Intense heat may cause abrupt evolution of CO$_2$ or trapped moisture.
Use protective equipment appropriate for surrounding fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid inhalation of concrete dusts. Use work gloves to handle spilled product. Wear appropriate protective equipment as described in Section 8.

EMERGENCY PROCEDURES: Place any broken or crushed product in a container, avoiding actions that cause the concrete dust to become airborne. Do not allow spilled product to enter water ways or storm drains.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling Conditions for Safe Storage
Do not handle until all safety precautions have been read and understood.
Wear work gloves when handling the product.
Wash hands thoroughly after handling.
Wear work gloves, eye protection, and respiratory protection if demolishing or cutting the product.
Wear impervious gloves and eye protection if handling a wet product, or product that has been wet.
Store in a dry area.
When stacking, ensure adequate load-bearing capacity of supporting platforms.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION and ENGINEERING CONTROLS: Not required for normal use. Dust suppression controls should be used if this product is cut or demolished. Standard construction practices should be followed to prevent dust from entering non-work areas.

RESPIRATORY PROTECTION: Not required for normal use. During demolition or cutting, NIOSH/MSHA approved dust respirators should be used where dust levels exceed or are likely to exceed exposure limits defined in this section.

EYE PROTECTION: Not required under normal use. During demolition or cutting, safety goggles should be worn.

SKIN PROTECTION: Work gloves / gardening gloves should be worn when handling this product.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not required for normal use. During demolition or cutting, skin and hair should be protected from dust exposure.

WORK HYGIENIC PRACTICES: Wash hands with soap and water after handling this product. Avoid dust inhalation during cutting and demolition procedures. Avoid direct contact with skin and eyes.

EXPOSURE LIMITS:

<table>
<thead>
<tr>
<th>CHEMICAL NAME (common name)</th>
<th>CAS Number</th>
<th>OSHA PEL 8 hr TWA</th>
<th>Cal/OSHA PEL 8 hr TWA</th>
<th>NIOSH REL 10 hr TWA</th>
<th>ACGIH 2015 8 hr TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>crystalline silica aggregate (from rock) and crystalline quartz (from sand) SiO$_2$</td>
<td>14808-60-7</td>
<td>$30 \text{ mg/m}^3 T$ (SI0$_2$ + 2)</td>
<td>0.3 mg/m$^3 T$ 0.1 mg/m$^3 R$</td>
<td>0.05 mg/m$^3 R$</td>
<td>0.025 mg/m$^3 R$</td>
</tr>
<tr>
<td>Portland cement (hydraulic calcium silicates)</td>
<td>65997-15-1</td>
<td>$15 \text{ mg/m}^3 T$ 5 mg/m$^3 R$</td>
<td>Not established</td>
<td>10 mg/m$^3 T$ 5 mg/m$^3 R$</td>
<td>1 mg/m$^3$</td>
</tr>
<tr>
<td>Aluminum oxide Al$_2$O$_3$</td>
<td>1344-28-1</td>
<td>$15 \text{ mg/m}^3 T$ 5 mg/m$^3 R$</td>
<td>10 mg/m$^3 T$ 5 mg/m$^3 R$</td>
<td>Not established</td>
<td>10 mg/m$^3 T$ 3 mg/m$^3 R$</td>
</tr>
</tbody>
</table>
(Exposure limits, continued)

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Limit(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium oxide</td>
<td>1305-78-8</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>Iron(II) oxide</td>
<td>1345-25-1</td>
<td>10 mg/m³ (as fume)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Potassium oxide</td>
<td>12136-45-7</td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Sodium oxide</td>
<td>1313-59-3</td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Iron(III) oxide</td>
<td>1309-37-1</td>
<td>15 mg/m³ T R</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 mg/m³ R</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>15 mg/m³ T R</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³ T R</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 mg/m³ R</td>
</tr>
<tr>
<td>Magnesium oxide</td>
<td>1309-48-4</td>
<td>15 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

Abbreviation Key: T = Total; R = Respirable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: solid concrete block; color and shape vary

ODOR: none

pH: as supplied: not applicable; extract may be alkaline

RELATIVE DENSITY (water = 1): 2.2-2.3

MELTING/FREEZING POINT: not applicable

INITIAL BOILING POINT / BOILING RANGE: not applicable

SOLUBILITY: negligible, but water extracts unbound alkaline salts

PARTITION COEFFICIENT (n-octanol/water): not applicable

VISCOSITY: not applicable

VAPOR PRESSURE: not applicable

VAPOR DENSITY (air = 1): not applicable

EVAPORATION RATE (butyl acetate = 1): not applicable

FLASH POINT: not applicable

FLAMMABILITY: does not ignite or sustain combustion

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: not applicable

AUTO-IGNITION TEMPERATURE: not applicable

DECOMPOSITION TEMPERATURE: not applicable

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Not reactive

CHEMICAL STABILITY: This product is stable under normal use and storage conditions.

OTHER:

Incompatibilities/Materials to Avoid: Hydrofluoric acid will etch concrete and form silicon tetrafluoride, a corrosive gas.

Hazardous Decomposition Products:
Intense heat may cause abrupt evolution of CO₂ or trapped moisture

Hazardous Polymerization: Will not occur
SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of exposure: Skin and eye contact; inhalation of airborne particulate from demolition or cutting the product.

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>Skin</th>
<th>Eyes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute Exposure Effects</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sneezing, coughing, wheezing. Respiratory ailments (including bronchitis, emphysema, COPD) may be aggravated by exposure to particulate generated by cutting or demolition of this product.</td>
<td>Skin contact with dry hardened concrete may cause redness or other signs of irritation/abrasion. Skin contact with wet hardened concrete will cause irritation and burns.</td>
<td>Particulate/dusts from demolition or cutting of product may cause abrasion, irritation, redness and/or watering, swelling of the eyes. Rubbing the eyes with concrete dust-contaminated hands will result in serious eye irritation and possible corneal burns.</td>
</tr>
</tbody>
</table>

**Delayed Exposure Effects**
Pre-existing respiratory conditions may be aggravated if airborne particulate is inhaled.
Dry, cracked, itchy skin
Corneal abrasion
Corneal burns

**Chronic Exposure Effects**
Chronic exposure to dust generated from cutting, grinding, crushing, or drilling hardened concrete may cause bronchitis. Chronic inhalation of crystalline silica (from airborne concrete particulate) can cause scleroderma, silicosis and cancer.

Sensitized individuals may develop allergic dermatitis through skin contact with wet cured concrete.

unknown

LD₅₀ Oral: unknown; not tested; not estimated

LC₅₀ Inhalation: unknown; not tested; not estimated

LD₅₀ Dermal: unknown; not tested; not estimated

CARCINOGENICITY:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Wt%</th>
<th>IARC List of Classifications</th>
<th>NTP Report on Carcinogen Evaluations</th>
<th>OSHA Carcinogen List</th>
<th>ACGIH 2015 Carcinogen</th>
<th>Prop 65 List</th>
</tr>
</thead>
<tbody>
<tr>
<td>crystalline silica aggregate (from rock) and crystalline quartz (from sand) SiO₂</td>
<td>14808-60-7</td>
<td>55-70</td>
<td>Vol. 68, 1997: Group 1</td>
<td>11th Report: respirable crystalline silica is known to be a human carcinogen</td>
<td>Not Listed</td>
<td>A2</td>
</tr>
<tr>
<td>Portland cement (hydraulic calcium silicates)</td>
<td>65997-15-1</td>
<td>15-20</td>
<td>Not listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>A4</td>
</tr>
<tr>
<td>Iron(III) oxide Fe₂O₃</td>
<td>1309-37-1</td>
<td>0-2</td>
<td>Sup. 7 (1987): Group 3</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>A4</td>
</tr>
<tr>
<td>Kaolin Al₂O₃ • SiO₂ • xH₂O</td>
<td>1332-58-7</td>
<td>0-1</td>
<td>Not listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>A4</td>
</tr>
<tr>
<td>Magnesium oxide</td>
<td>1309-48-4</td>
<td>0-1</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>A4</td>
</tr>
</tbody>
</table>

IARC Group 1 = carcinogenic to humans; IARC Group 3: not classifiable as a human carcinogen
ACGIH A2 = suspected human carcinogen; ACGIH A4 = not classifiable as a human carcinogen

SECTION 12: ECOLOGICAL INFORMATION

LC₅₀ Aquatic Toxicity: unknown; not tested; estimated to be >100 mg/L; hazard is due to pH (alkalinity) of extractable components

Biodegradability: not applicable (inorganic)

Bioaccumulation potential: not applicable (inorganic)
SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Local/state regulations may require disposal of large quantities of this product as construction debris. Check with local authorities.

RCRA HAZARD CLASS: This product is not a RCRA hazardous waste, and does not meet the definition of characteristic hazardous waste.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (US DOT):
Hazard Class: Not regulated
Proper Shipping: Not regulated

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT):
Concrete and crystalline silica are exempt from reporting under the inventory update rule. All other ingredients in this product are in compliance with US TSCA Chemical Substance Inventory Requirements.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT) (40 CFR302.4):
This product is not listed as a CERCLA hazardous substance.


EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40CFR 370.10):
Dust and particulate from cutting or demolition of this product are considered a hazardous chemical and a delayed health hazard. Hazard Categories: Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: No

EPCRA SECTION 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING (40 CFR 372.65):
This product contains none of the substances subject to SARA 313 reporting requirements.

STATE REGULATIONS:

California Proposition 65
Warning: This product contains a chemical known to the State of California to cause cancer: crystalline silica

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>% in product</th>
<th>Cancer</th>
<th>Reproductive</th>
<th>No Significant Risk Level for chemicals causing cancer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline silica</td>
<td>14808-60-7</td>
<td>55-70</td>
<td>Yes</td>
<td>No</td>
<td>Not established</td>
</tr>
</tbody>
</table>

SECTION 16: OTHER INFORMATION

REFERENCES:
29 CFR 1910 (OSHA); 40 CFR 300-399 (EPA); 49 CFR 172-176 (DOT); ACGIH 2015 Threshold Limit Values for Chemical Substances and Physical Agents; California Code of Regulations: Title 8, Div 1, Ch 4, Subchapter 7, Group 16 (PEL and STEL for Air Contaminants); Globally Harmonized System of Classification and Labeling of Chemicals, United Nations, ST/SG/AC.10/30/Rev.5; International Agency for Research on Cancer (IARC) monograph search; National Toxicology Program (NTP) status search NIOSH Pocket Guide to Chemical Hazards; Proposition 65 List: Chemicals Known to the State to Cause Cancer or Reproductive Toxicity, June 19 2015; Proposition 65 Status Report on No Significant Risk Levels for Carcinogens and Maximum Allowable Dose Levels for Chemicals Causing Reproductive Toxicity, 08/19/2013; The Registry of Toxic Effects of Chemical Substances

PREPARED BY: American Research and Testing Inc. for Stepstone, Inc.,

REVISION HISTORY:
Rev. 0: 03/12/2007: original OSHA MSDS
Rev. 1: 06/23/2015: revised to GHS SDS format
Rev. 1.1: 10/2/2015: fixed typographical errors

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