**Section 1 - Product and Company Identification**

Material Name: Slag Cement

**Manufacturer Information**

CALPORTLAND COMPANY
2025 E. Financial Way
Glendora, CA 91741
Phone: 626-852-6200
www.calportland.com

**Section 2 - Hazards Identification**

GHS Classification:
- Skin Corrosion/Irritation - Category 2
- Eye Damage/Irritation - Category 2B
- Carcinogenicity - Category 2
- Specific Target Organ Toxicity Single Exposure - Category 3

**GHS LABEL ELEMENTS**

**Symbol(s)**

![Symbol Image]

**Signal Word**

Warning

**Hazard Statements**

- Causes skin irritation.
- Causes eye irritation.
- Suspected of causing cancer.
- May cause respiratory irritation.

**Precautionary Statements**

**Prevention**

- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Avoid breathing dust.
- Use only outdoors or in a well-ventilated area.
Response
If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

Storage
Store in an appropriate container or containment structure.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

*** Section 3 - Composition / Information on Ingredients ***

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1305-78-8</td>
<td>Calcium oxide</td>
<td>39-43</td>
</tr>
<tr>
<td>7631-86-9</td>
<td>Silica, amorphous</td>
<td>31-35</td>
</tr>
<tr>
<td>1344-28-1</td>
<td>Aluminum oxide</td>
<td>13-15</td>
</tr>
<tr>
<td>1309-48-4</td>
<td>Magnesium oxide</td>
<td>6-8</td>
</tr>
</tbody>
</table>

*** Section 4 - First Aid Measures ***

First Aid: Eyes
Immediately flush eyes thoroughly with water for at least 15 minutes. Call physician if irritation persists.

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

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

First Aid: Inhalation
Remove to fresh air. Shortness of breath, coughing, reduced pulmonary function are signs of overexposure. Seek medical help if coughing and other symptoms do not subside.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards
See Section 9 for Flammability Properties.

None

Hazardous Combustion Products
None

Extinguishing Media
Use appropriate extinguishing media for surrounding fire.

Unsuitable Extinguishing Media
None

Fire Fighting Equipment/Instructions
Firefighters should wear full protective gear.
**Safety Data Sheet**

**Material Name:** Slag Cement

*** Section 6 - Accidental Release Measures ***

**Recovery and Neutralization**
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.

**Materials and Methods for Clean-Up**
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.

**Emergency Measures**
Isolate area. Keep unnecessary personnel away.

**Personal Precautions and Protective Equipment**
Wear appropriate protective equipment and clothing during clean-up.

**Environmental Precautions**
None

**Prevention of Secondary Hazards**
None

*** Section 7 - Handling and Storage ***

**Handling Procedures**
Do not breathe dust which may be created during handling. Use good housekeeping procedures. Do not rely on vision to determine whether respirable silica is present in the air, as it may be present without a visible cloud. Wash thoroughly after exposure to dust. Promptly remove dusty clothing and launder before reuse.

**Storage Procedures**
Normal temperatures and pressures do not affect the material.

**Incompatibilities**
Halogens, acids, combustible materials, metals salts, oxidizing agents.
**Section 8 - Exposure Controls / Personal Protection**

### Component Exposure Limits

**Calcium oxide** (1305-78-8)
- ACGIH: 2 mg/m³ TWA
- OSHA (Final): 5 mg/m³ TWA
- OSHA (Vacated): 5 mg/m³ TWA (not in effect as a result of reconsideration)
- NIOSH: 2 mg/m³ TWA
- Alberta: 2 mg/m³ TWA
- British Columbia: 2 mg/m³ TWA
- Columbia: 2 mg/m³ TWA
- Manitoba: 2 mg/m³ TWA
- New Brunswick: 2 mg/m³ TWA
- NW Territories: 2 mg/m³ TWA
- Nova Scotia: 2 mg/m³ TWA
- Nunavut: 2 mg/m³ TWA
- Ontario: 2 mg/m³ TWA
- Quebec: 2 mg/m³ TWA
- Saskatchewan: 2 mg/m³ TWA
- Yukon: 2 mg/m³ TWA

**Silica, amorphous** (7631-86-9)
- OSHA (Vacated): 6 mg/m³ TWA (<1% Crystalline silica)
- NIOSH: 6 mg/m³ TWA
- NW Territories: 2 mg/m³ TWA (respirable mass); 5 mg/m³ TWA (total mass); 0.05 mg/m³ TWA (regulated under Silica flour, respirable mass); 0.15 mg/m³ TWA (total mass, regulated under Silica flour)
- Nunavut: 2 mg/m³ TWA (respirable mass); 5 mg/m³ TWA (total mass); 0.05 mg/m³ TWA (regulated under Silica flour, respirable mass); 0.15 mg/m³ TWA (regulated under Silica flour, total mass)
- Yukon: 300 particle/mL TWA (as measured by Konimeter instrumentation, listed under Silica); 20 mppcf TWA (as measured by Impinger instrumentation, listed under Silica); 2 mg/m³ TWA (respirable mass, listed under Silica)
Material Name: Slag Cement

Aluminum oxide (1344-28-1)

OSHA (Final): 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)
OSHA (Vacated): 10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)
Alberta: 10 mg/m³ TWA
New Brunswick: 10 mg/m³ TWA (particulate matter containing no Asbestos and <1% Crystalline silica)
NW Territories: 10 mg/m³ TWA; 5 mg/m³ TWA (respirable mass); 10 mg/m³ TWA (total mass)
20 mg/m³ STEL
Nunavut: 10 mg/m³ TWA; 5 mg/m³ TWA (respirable mass); 10 mg/m³ TWA (total mass)
20 mg/m³ STEL
Quebec: 10 mg/m³ TWAEV (containing no Asbestos and <1% Crystalline silica, total dust, as Al)
Saskatchewan: 10 mg/m³ TWA
20 mg/m³ STEL
Yukon: 30 mppcf TWA (Al₂O₃); 10 mg/m³ TWA (Al₂O₃)
20 mg/m³ STEL (Al₂O₃)

Magnesium oxide fume (1309-48-4)

OSHA (Final): 15 mg/m³ TWA (fume, total particulate)
OSHA (Vacated): 10 mg/m³ TWA (total particulate)
Alberta: 10 mg/m³ TWA (fume)
British Columbia: 10 mg/m³ TWA (fume, inhalable); 3 mg/m³ TWA (respirable dust and fume, as Mg)
10 mg/m³ STEL (respirable dust and fume, as Mg)
Manitoba: 10 mg/m³ TWA (inhalable fraction)
New Brunswick: 10 mg/m³ TWA (fume)
NW Territories: 10 mg/m³ TWA (fume, as Mg)
20 mg/m³ STEL (fume, as Mg)
Nova Scotia: 10 mg/m³ TWA (inhalable fraction)
Nunavut: 10 mg/m³ TWA (fume, as Mg)
20 mg/m³ STEL (fume, as Mg)
Ontario: 10 mg/m³ TWA (inhalable)
Quebec: 10 mg/m³ TWAEV (fume, as Mg)
Saskatchewan: 10 mg/m³ TWA (inhalable fraction)
20 mg/m³ STEL (inhalable fraction)
Yukon: 10 mg/m³ TWA (fume, as Mg)
10 mg/m³ STEL (fume, as Mg)

Engineering Measures

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

Personal Protective Equipment: Respiratory

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.
Safety Data Sheet

Material Name: Slag Cement

Personal Protective Equipment: Hands
Where prolonged exposure to products might occur, wear impervious gloves to eliminate skin contact.

Personal Protective Equipment: Eyes
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.

Personal Protective Equipment: Skin and Body
Normal work clothing (long sleeved shirts and long pants) is recommended.

*** Section 9 - Physical & Chemical Properties ***

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>Granular mixture</td>
</tr>
<tr>
<td>Physical State:</td>
<td>Powder</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Solubility (H2O):</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Octanol/H2O Coeff.:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flash Point Method:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Odor:</td>
<td>No Distinct Odor</td>
</tr>
<tr>
<td>pH:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Melting Point:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>VOC:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>None</td>
</tr>
<tr>
<td>Upper Flammability Limit (UFL):</td>
<td>None</td>
</tr>
<tr>
<td>Lower Flammability Limit (LFL):</td>
<td>None</td>
</tr>
<tr>
<td>Auto Ignition:</td>
<td>None</td>
</tr>
</tbody>
</table>

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability
This is a stable material.

Hazardous Reaction Potential
Will not occur.

Conditions to Avoid
Avoid dust generation.

Incompatible Products
Halogen, acids, combustible materials, metals salts, oxidizing agents.

Hazardous Decomposition Products
May form crystalline silica.

*** Section 11 - Toxicological Information ***

Acute Toxicity

Component Analysis - LD50/LC50
Calcium oxide (1305-78-8)
Oral LD50 Rat 500 mg/kg

Silica, amorphous (7631-86-9)
Oral LD50 Rat >5000 mg/kg; Inhalation LC50 Rat >2.2 mg/L 1 h; Dermal LD50 Rabbit >2000 mg/kg
Potential Health Effects: Skin Corrosion Property/Stimulativeness
This product can cause abrasion and irritation to the skin.

Potential Health Effects: Eye Critical Damage/Stimulativeness
Exposure to airborne dust during the handling of this product may cause immediate or delayed irritation and/or abrasion to the cornea.

Potential Health Effects: Ingestion
No known health effect if ingested.

Potential Health Effects: Inhalation
May cause respiratory irritation.

Respiratory Organs Sensitization/Skin Sensitization
This product is not reported to have any sensitization effects.

Generative Cell Mutagenicity
This product is not reported to have any mutagenic effects.

Carcinogenicity
A: General Product Information
Suspected of causing cancer.

B: Component Carcinogenicity
Silica, amorphous (7631-86-9)
IARC: Monograph 68 [1997]; Supplement 7 [1987] (Group 3 (not classifiable))

Magnesium oxide (1309-48-4)
ACGIH: A4 - Not Classifiable as a Human Carcinogen

Reproductive Toxicity
This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure
This product is not reported to have any single exposure specific target organ toxicity effects.

Specified Target Organ General Toxicity: Repeated Exposure
May cause respiratory irritation.

Aspiration Respiratory Organs Hazard
This product is not reported to have any aspiration hazard effects.

*** Section 12 - Ecological Information ***

Ecotoxicity
A: General Product Information
This product is not reported to have any ecotoxicity effects.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity
Calcium oxide (1305-78-8)
<table>
<thead>
<tr>
<th>Test &amp; Species</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr LC50 Cyprinus carpio</td>
<td>1070 mg/L [static]</td>
</tr>
</tbody>
</table>
Material Name: Slag Cement

Silica, amorphous (7631-86-9)

<table>
<thead>
<tr>
<th>Test &amp; Species</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr LC50 Brachydanio rerio</td>
<td>5000 mg/L [static]</td>
</tr>
<tr>
<td>72 Hr EC50 Pseudokirchneriella subcapitata</td>
<td>440 mg/L</td>
</tr>
<tr>
<td>48 Hr EC50 Ceriodaphnia dubia</td>
<td>7600 mg/L</td>
</tr>
</tbody>
</table>

Persistence/Degradability
No information available for the product.

Bioaccumulation
No information available for the product.

Mobility in Soil
No information available for the product.

*** Section 13 - Disposal Considerations ***

Waste Disposal Instructions
See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging
Dispose of contents/container in accordance with local/regional/national/international regulations.

*** Section 14 - Transportation Information ***

DOT/TDG Information
Shipping Name: Not Regulated

*** Section 15 - Regulatory Information ***

Regulatory Information

US Federal Regulations

Component Analysis
This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Aluminum oxide (1344-28-1)
SARA 313: 1.0 % de minimis concentration (fibrous forms)

State Regulations

Component Analysis - State
The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
<th>RI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium oxide</td>
<td>1305-78-8</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td>7631-86-9</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Aluminum oxide</td>
<td>1344-28-1</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Magnesium oxide</td>
<td>1309-48-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>
The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

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

### Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Minimum Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium oxide</td>
<td>1305-78-8</td>
<td>1 %</td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td>7631-86-9</td>
<td>1 %</td>
</tr>
<tr>
<td>Aluminum oxide</td>
<td>1344-28-1</td>
<td>1 %</td>
</tr>
<tr>
<td>Magnesium oxide</td>
<td>1309-48-4</td>
<td>1 %</td>
</tr>
</tbody>
</table>

### Status under Workplace Hazardous Materials Information System (WHMIS), Canada

This product 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).

### Status under Canadian Environmental Protection Act

Not Listed

### Additional Regulatory Information

### Component Analysis - Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>TSCA</th>
<th>CAN</th>
<th>EEC</th>
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</thead>
<tbody>
<tr>
<td>Calcium oxide</td>
<td>1305-78-8</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
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<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
<tr>
<td>Aluminum oxide</td>
<td>1344-28-1</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
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<tr>
<td>Magnesium oxide</td>
<td>1309-48-4</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
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</tbody>
</table>

### * * * Section 16 - Other Information * * *

<table>
<thead>
<tr>
<th>Hazardous Material Information System (HMIS):</th>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>B</td>
</tr>
</tbody>
</table>
Safety Data Sheet

Material Name: Slag Cement

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

Key/Legend
EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

Literature References
None

Other 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 nondelivery 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 Sheet