1. Identification

Product identifier: LATICRETE® PERMACOLOR® Select NS

Other means of identification: None.

Recommended use: Grout.

Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name: LATICRETE International
Address: 1 Laticrete Park, N Bethany, CT 06524
Telephone: (203)-393-0010
Contact person: Steve Fine
Website: www.laticrete.com

Emergency phone number:
- Call ChemTel day or night
  - USA/Canada - 1.800.255.3924
  - Mexico - 1.800.099.0731
  - Outside USA/Canada 1.813.248.0585

2. Hazard(s) identification

Physical hazards: Not classified.

Health hazards:
- Skin corrosion/irritation Category 2
- Serious eye damage/eye irritation Category 1
- Sensitization, skin Category 1
- Reproductive toxicity Category 1B

OSHA defined hazards: Not classified.

Label elements:

- Signal word: Danger
- Hazard statement: Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May damage the unborn child.
- Precautionary statement:
  - Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing must not be allowed out of the workplace.
  - Response: If exposed or concerned: Get medical advice/attention. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.
  - Storage: Store locked up.
  - Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC): Not classified.

Supplemental information: None.
3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>1317-65-3</td>
<td>60 - 65</td>
</tr>
<tr>
<td>Calcium aluminate cement</td>
<td>65997-16-2</td>
<td>20 - 25</td>
</tr>
<tr>
<td>Calcium sulfate hemihydrate</td>
<td>26499-65-0</td>
<td>4 - 7</td>
</tr>
<tr>
<td>Portland Cement</td>
<td>65997-15-1</td>
<td>2 - 4</td>
</tr>
<tr>
<td>Lithium Carbonate</td>
<td>554-13-2</td>
<td>0 - 0.25</td>
</tr>
</tbody>
</table>

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

**Inhalation**
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

**Skin contact**
Wash off with soap and plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

**Eye contact**
Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

**Ingestion**
Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed
Rash. Coughing. Irritant effects. Permanent eye damage including blindness could result. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.

**Indication of immediate medical attention and special treatment needed**
Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

**General information**
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If exposed or concerned: Get medical advice/attention.

5. Fire-fighting measures

**Suitable extinguishing media**
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

**Unsuitable extinguishing media**
None known.

**Specific hazards arising from the chemical**
During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters**
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire fighting equipment/instructions**
In case of fire and/or explosion do not breathe fumes.

**General fire hazards**
No unusual fire or explosion hazards noted.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Keep unnecessary personnel away. Keep upwind. Avoid formation of dust. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation.

**Methods and materials for containment and cleaning up**
Stop the flow of material, if this is without risk. Sweep or shovel up material and place in a clearly labeled container for waste. Collect dust using a vacuum cleaner. Following product recovery, flush area with water.

**Environmental precautions**
Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

**Precautions for safe handling**
Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Wear appropriate personal protective equipment. Do not breathe dust. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Observe good industrial hygiene practices.
8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium sulfate hemihydrate (CAS 26499-65-0)</td>
<td>PEL</td>
<td>5 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>Limestone (CAS 1317-65-3)</td>
<td>PEL</td>
<td>15 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td>Portland Cement (CAS 65997-15-1)</td>
<td>PEL</td>
<td>5 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>

US. OSHA Table Z-3 (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland Cement (CAS 65997-15-1)</td>
<td>TWA</td>
<td>50 mppcf</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland Cement (CAS 65997-15-1)</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium sulfate hemihydrate (CAS 26499-65-0)</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>Respirable.</td>
</tr>
<tr>
<td>Limestone (CAS 1317-65-3)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>Total</td>
</tr>
<tr>
<td>Portland Cement (CAS 65997-15-1)</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>Respirable.</td>
</tr>
</tbody>
</table>

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear chemical-resistant, impervious gloves.

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

Wear a dust mask if dust is generated above exposure limits.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state

Solid.

Form

Powder.
Color | Off-white
--- | ---
Odor | Odorless.
Odor threshold | Not available.
pH | Not applicable.
Melting point/freezing point | Not available.
Initial boiling point and boiling range | Not available.
Flash point | Not flammable or combustible.
Evaporation rate | Not available.
Flammability (solid, gas) | Non flammable.
Upper/lower flammability or explosive limits | Not available.
Flammability limit - lower (%) | Not available.
Flammability limit - upper (%) | Not available.
Vapor pressure | Not applicable.
Vapor density | Not applicable.
Relative density | Not available.
Solubility(ies) | Insoluble in water.
Solubility (water) | Insoluble in water.
Partition coefficient (n-octanol/water) | Not available.
Auto-ignition temperature | Not available.
Decomposition temperature | Not available.
Viscosity | Not applicable.
Other information | Not available.
Bulk density | 1.1

10. Stability and reactivity

Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability | Material is stable under normal conditions.
Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use.
Conditions to avoid | Contact with incompatible materials.
Incompatible materials | Strong oxidizing agents.
Hazardous decomposition products | No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation | Dust irritates the respiratory system, and may cause coughing and difficulties in breathing.
Skin contact | Causes skin irritation. May cause an allergic skin reaction. Prolonged contact with wet cement/mixture may cause burns.
Eye contact | Causes serious eye damage. Prolonged contact with wet cement/mixture may cause burns.
Ingestion | Swallowing may cause gastrointestinal irritation.

Symptoms related to the physical, chemical and toxicological characteristics | Rash. Coughing. Irritant effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged exposure may cause chronic effects.

Information on toxicological effects

Acute toxicity | May cause respiratory irritation.
### Components Test Results

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lithium Carbonate (CAS 554-13-2)</td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td>Rat</td>
</tr>
<tr>
<td>LC50</td>
<td>&gt; 2.17 mg/l, 4 Hours</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
</tr>
<tr>
<td>LD50</td>
<td>525 mg/kg</td>
</tr>
</tbody>
</table>

### Skin corrosion/irritation
- Causes skin irritation.

### Serious eye damage/eye irritation
- Causes serious eye damage.

### Respiratory or skin sensitization
- **Germ cell mutagenicity**
  - No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
- **Carcinogenicity**
  - Not classifiable as to carcinogenicity to humans.
  - IARC Monographs. Overall Evaluation of Carcinogenicity
    - Not listed.
  - NTP Report on Carcinogens
    - Not listed.
    - Not regulated.

### Reproductive toxicity
- May damage the unborn child.

### Specific target organ toxicity - single exposure
- Not classified.

### Specific target organ toxicity - repeated exposure
- Not classified.

### Aspiration hazard
- Due to the physical form of the product it is not an aspiration hazard.

### Chronic effects
- Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

### Further information
- No other specific acute or chronic health impact noted.

### 12. Ecological information

#### Ecotoxicity
- Not expected to be harmful to aquatic organisms.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lithium Carbonate</td>
<td>Fish</td>
<td>LC50 Mummichog</td>
</tr>
<tr>
<td></td>
<td>Carrier</td>
<td>LC50 Fundulus</td>
</tr>
<tr>
<td></td>
<td>Persistence and degradability</td>
<td>8.1 mg/l, 96 hours</td>
</tr>
<tr>
<td></td>
<td>Bioaccumulative potential</td>
<td>No data available for this product.</td>
</tr>
<tr>
<td>Mobility in soil</td>
<td>The product is not mobile in soil.</td>
<td></td>
</tr>
<tr>
<td>Other adverse effects</td>
<td>No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.</td>
<td></td>
</tr>
</tbody>
</table>

### 13. Disposal considerations

#### Disposal instructions
- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Do not contaminate ponds, waterways or ditches with chemical or used container.

#### Local disposal regulations
- Dispose in accordance with all applicable regulations.

#### Hazardous waste code
- The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

#### Waste from residues / unused products
- Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not established.

15. Regulatory information

US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312 Hazardous chemical
Yes

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)
Not regulated.

US state regulations
WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Lithium Carbonate (CAS 554-13-2)

US. Massachusetts RTK - Substance List
Calcium sulfate hemihydrate (CAS 26499-65-0)
Limestone (CAS 1317-65-3)
Lithium Carbonate (CAS 554-13-2)
Portland Cement (CAS 65997-15-1)

US. New Jersey Worker and Community Right-to-Know Act
Calcium sulfate hemihydrate (CAS 26499-65-0)
Limestone (CAS 1317-65-3)
Lithium Carbonate (CAS 554-13-2)
Portland Cement (CAS 65997-15-1)
US. Pennsylvania Worker and Community Right-to-Know Law
Calcium sulfate hemihydrate (CAS 26499-65-0)
Limestone (CAS 1317-65-3)
Portland Cement (CAS 65997-15-1)

US. Rhode Island RTK
Limestone (CAS 1317-65-3)
Portland Cement (CAS 65997-15-1)

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 11-April-2017
Revision date -
Version # 01

NFPA ratings

List of abbreviations

References
HSDB® - Hazardous Substances Data Bank
Registry of Toxic Effects of Chemical Substances (RTECS)

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