1. Identification

Product identifier: L&M Permaguard SPS

Other means of identification: None.

Recommended use: Sealer.

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 CHEMTREC day or night USA/Canada - 1.800.424.9300 Mexico - 1.800.681.9531 Outside USA/Canada 1.703.527.3887

2. Hazard(s) identification

Physical hazards: Not classified.

Health hazards: Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2

OSHA defined hazards: Not classified.

Label elements

Signal word: Warning
Hazard statement: Causes skin irritation. Causes serious eye irritation.
Precautionary statement
Prevention: Wash thoroughly after handling. Wear protective gloves/eye protection/face protection.
Response: If on skin: Wash with plenty of 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.

Storage: Store away from incompatible materials.
Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetraamminezinc(2+) Carbonate</td>
<td>38714-47-5</td>
<td>25 - 30</td>
</tr>
<tr>
<td>Ingredient</td>
<td>CAS Number</td>
<td>Concentration</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Diethylene glycol monoethyl ether</td>
<td>111-90-0</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Tris(2-butoxyethyl) phosphate</td>
<td>78-51-3</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Ammonia</td>
<td>7664-41-7</td>
<td>1 - 3</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. Get medical attention if any discomfort continues.

**Skin contact**

Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Get medical attention.

**Eye contact**

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

**Ingestion**

Exposed individuals may experience eye tearing, redness, and discomfort.

**Most important symptoms/effects, acute and delayed**

Provide general supportive measures and treat symptomatically.

**Indication of immediate medical attention and special treatment needed**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

**Suitable extinguishing media**

Water spray, foam, dry powder or carbon dioxide.

**Unsuitable extinguishing media**

Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical**

By heating and fire, irritating vapors/gases 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. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

**Fire fighting equipment/instructions**

Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.

**General fire hazards**

No unusual fire or explosion hazards noted. Will burn if involved in a fire.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

Prevent entry into waterways, sewer, basements or confined areas.

**Methods and materials for containment and cleaning up**

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.

**Environmental precautions**

Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Environmental manager must be informed of all major releases.

### 7. Handling and storage

**Precautions for safe handling**

Do not breathe mist. Do not get in eyes, on skin, on clothing. Use with adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Keep container tightly closed. Store in a cool and well-ventilated place. Store away from incompatible materials (See Section 10).
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>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia (CAS 7664-41-7)</td>
<td>PEL</td>
<td>35 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50 ppm</td>
</tr>
</tbody>
</table>

**US. ACGIH Threshold Limit Values**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia (CAS 7664-41-7)</td>
<td>STEL</td>
<td>35 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>25 ppm</td>
</tr>
</tbody>
</table>

**US. NIOSH: Pocket Guide to Chemical Hazards**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia (CAS 7664-41-7)</td>
<td>STEL</td>
<td>27 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>18 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25 ppm</td>
</tr>
</tbody>
</table>

**US. Workplace Environmental Exposure Level (WEEL) Guides**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol monoethyl ether (CAS 111-90-0)</td>
<td>TWA</td>
<td>140 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25 ppm</td>
</tr>
</tbody>
</table>

Biological limit values

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

Appropriate engineering controls

Provide eyewash station.

Individual protection measures, such as personal protective equipment

**Eye/face protection**

Wear safety glasses with side shields (or goggles). Face-shield.

**Skin protection**

Hand protection

Wear appropriate chemical resistant gloves.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

**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.

9. Physical and chemical properties

**Appearance**

**Physical state**

Liquid.

**Form**

Liquid.

**Color**

White.

**Odor**

Slight ammonia.

**Odor threshold**

Not available.

**pH**

Not available.

**Melting point/freezing point**

Not applicable.

**Initial boiling point and boiling range**

212 °F (100 °C)

**Flash point**

Non flammable.

**Evaporation rate**

Not applicable.

**Flammability (solid, gas)**

Not applicable.
Upper/lower flammability or explosive limits

- Flammability limit - lower (%): Not available.
- Flammability limit - upper (%): Not available.
- Explosive limit - lower (%): Not available.
- Explosive limit - upper (%): Not available.

Vapor pressure: Not applicable.
Vapor density: Not applicable.
Relative density: 1.03

Solubility (water): Completely Soluble.
Partition coefficient (n-octanol/water): Not available.

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
Will not occur.

Conditions to avoid
Heat, flames and sparks. Contact with incompatible materials.

Incompatible materials

Hazardous decomposition products
Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

- Inhalation: High mist concentrations may cause irritation of respiratory tract.
- Skin contact: Causes skin irritation.
- Eye contact: Causes serious eye irritation.
- Ingestion: Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and toxicological characteristics
Exposed individuals may experience eye tearing, redness, and discomfort.

Information on toxicological effects

Acute toxicity
May cause discomfort if swallowed.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol monoethyl ether (CAS 111-90-0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50 Rabbit</td>
<td>9143 mg/kg, 24 Hours</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50 Rat</td>
<td>10502 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Tris(2-butoxyethyl) phosphate (CAS 78-51-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50 Rat</td>
<td>3000 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/eye irritation: Causes serious eye irritation.
Respiratory or skin sensitization

Respiratory sensitization  
No data available.

Skin sensitization  
Not a skin sensitizer.

Germ cell mutagenicity  
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity  
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity  
Not listed.

NTP Report on Carcinogens  
Not listed.

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

Reproductive toxicity  
This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure  
No data available.

Specific target organ toxicity - repeated exposure  
No data available.

Aspiration hazard  
No data available.

Chronic effects  
No data available.

Further information  
May cause gastrointestinal disturbances.

12. Ecological information

Ecotoxicity  
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability  
No data is available on the degradability of this product.

Bioaccumulative potential  
No data available.

Partition coefficient n-octanol / water (log Kow)  
Diethylene glycol monoethyl ether (CAS 111-90-0) -0.54
Tris(2-butoxyethyl) phosphate (CAS 78-51-3) 3.75

Mobility in soil  
No data available.

Other adverse effects  
No data available.

13. Disposal considerations

Disposal instructions  
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations.

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.

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  
UN number UN3082
UN proper shipping name Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es)  
Class 9
Subsidiary risk -
Packing group III
Environmental hazards Yes
ERG Code 9L
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.

  - Not regulated.

- **CERCLA Hazardous Substance List (40 CFR 302.4)**
  - Ammonia (CAS 7664-41-7) LISTED
  - Diethylene glycol monoethyl ether (CAS 111-90-0) LISTED
  - Tetraamminezinc(2+) Carbonate (CAS 38714-47-5) LISTED
  - Tris(2-butoxyethyl) phosphate (CAS 78-51-3) LISTED

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

**SARA 302 Extremely hazardous substance**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>Reportable quantity (pounds)</th>
<th>Threshold planning quantity (pounds)</th>
<th>Threshold planning quantity, lower value (pounds)</th>
<th>Threshold planning quantity, upper value (pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia</td>
<td>7664-41-7</td>
<td>100</td>
<td>500</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SARA 311/312 Hazardous chemical**

- Yes

**SARA 313 (TRI reporting)**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetraamminezinc(2+) Carbonate</td>
<td>38714-47-5</td>
<td>25 - 30</td>
</tr>
<tr>
<td>Diethylene glycol monoethyl ether</td>
<td>111-90-0</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Tris(2-butoxyethyl) phosphate</td>
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</tr>
<tr>
<td>Ammonia</td>
<td>7664-41-7</td>
<td>1 - 3</td>
</tr>
</tbody>
</table>

**Other federal regulations**

- **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**
  - Diethylene glycol monoethyl ether (CAS 111-90-0)
  - Tris(2-butoxyethyl) phosphate (CAS 78-51-3)

- **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**
  - Ammonia (CAS 7664-41-7)

- **Safe Drinking Water Act (SDWA)**
  - Not regulated.
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**US state regulations**

**US. Massachusetts RTK - Substance List**
- Ammonia (CAS 7664-41-7)

**US. New Jersey Worker and Community Right-to-Know Act**
- Ammonia (CAS 7664-41-7)
- Diethylene glycol monoethyl ether (CAS 111-90-0)
- Tetraamminezinc(2+) Carbonate (CAS 38714-47-5)
- Tris(2-butoxyethyl) phosphate (CAS 78-51-3)

**US. Pennsylvania Worker and Community Right-to-Know Law**
- Ammonia (CAS 7664-41-7)
- Diethylene glycol monoethyl ether (CAS 111-90-0)
- Tris(2-butoxyethyl) phosphate (CAS 78-51-3)

**US. Rhode Island RTK**
- Ammonia (CAS 7664-41-7)
- Diethylene glycol monoethyl ether (CAS 111-90-0)
- Tetraamminezinc(2+) Carbonate (CAS 38714-47-5)
- Tris(2-butoxyethyl) phosphate (CAS 78-51-3)

**US. California Proposition 65**
Not Listed.

**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>No</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>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</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**
08-December-2015

**Revision date**
- 

**Version #**
01

**NFPA ratings**

![NFPA rating](image)

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

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