SECTION 1: Identification

1.1. Product identifier
Product name : Leveline® 45
Product code : Not available.

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : Cement-based self-leveling underlayment

1.3. Details of the supplier of the safety data sheet
Penetron Specialty Products Inc.
45 Research Way, Suite 203
East Setauket, New York 11733 - USA
T +1 (631) 941-9700
info@penetronsps.com - penetronsps.com

1.4. Emergency telephone number
Emergency number : (Chemtrec): US and Canada: 1-800-424-9300; International +1 703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
GHS-US classification
Skin Irritation 2
Serious Eye Damage 1
Carcinogenicity 1A
Reproductive Toxicity 1A
Specific Target Organ Toxicity - Repeated Exposure 1

2.2. Label elements
GHS-US labelling
Hazard pictograms (GHS-US) :

Signal word (GHS-US) : Danger
Hazard statements (GHS-US) : Causes skin irritation. Causes serious eye damage. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.
Precautionary statements (GHS-US) : 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. Do not breathe dust. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. If exposed or concerned: Get medical advice/attention. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. 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. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards
No additional information available.

2.4. Unknown acute toxicity (GHS-US)
Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable.
3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz</td>
<td>(CAS No) 14808-60-7</td>
<td>40 - 55</td>
</tr>
<tr>
<td>Cement, alumina, chemicals</td>
<td>(CAS No) 65997-16-2</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Cement, portland, chemicals</td>
<td>(CAS No) 65997-15-1</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Calcium sulfate</td>
<td>(CAS No) 7778-18-9</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Lithium carbonate</td>
<td>(CAS No) 554-13-2</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

* The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

First-aid measures after eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.

First-aid measures after ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation: May cause respiratory tract irritation. May cause burns in the presence of moisture.

Symptoms/injuries after skin contact: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause burns in the presence of moisture.

Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Symptoms/injuries after ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting. May cause burns in the presence of moisture.

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Treat for surrounding material.

Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Products of combustion may include, and are not limited to: oxides of carbon.

5.3. Advice for firefighters

Protection during firefighting: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2. Methods and material for containment and cleaning up

For containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up: Vacuum or sweep material and place in a disposal container. Avoid generating dust. Provide ventilation.

6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.
SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Avoid contact with skin and eyes. Do not breathe dust. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.

Hygiene measures: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep out of the reach of children. Keep container tightly closed. Store in original container in a dry, cool, well-ventilated area. Keep out of direct sunlight. Keep away from food and drink. Store locked up.

7.3. Specific end use(s)
Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH TWA (mg/m³)</th>
<th>OSHA (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Quartz (14808-60-7)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH</td>
<td></td>
<td>0.025 (respirable fraction)</td>
</tr>
<tr>
<td>OSHA</td>
<td></td>
<td>(10 mg/m³)/(%SiO2+2) (resp)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(30 mg/m³)/(%SiO2+2) (total)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(250)/(%SiO2+5) mppcf (resp)</td>
</tr>
</tbody>
</table>

| **Cement, alumina, chemicals (65997-16-2)** | | |
| ACGIH | | Not applicable. |
| OSHA | | Not applicable. |

| **Cement, portland, chemicals (65997-15-1)** | | |
| ACGIH | | 1 (no asbestos and <1% crystalline silica, respirable fraction) |
| OSHA | | 15 mg/m³ (total) |
| | | 5 mg/m³ (resp) |
| | | 50 mppcf (<1% Crystalline silica) |

| **Calcium sulfate (7778-18-9)** | | |
| ACGIH | | 10 mg/m³ (inhalable fraction) |
| OSHA | | 15 mg/m³ (total dust) |
| | | 5 mg/m³ (respirable fraction) |

| **Lithium carbonate (554-13-2)** | | |
| ACGIH | | Not applicable. |
| OSHA | | Not applicable. |

8.2. Exposure controls
Appropriate engineering controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Hand protection: Protective gloves made of rubber or PVC.

Eye protection: Wear approved eye (properly fitted dust- or splash-proof chemical safety goggles) / face (face shield) protection.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

Environmental exposure controls: Maintain levels below Community environmental protection thresholds.

Other information: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.
SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Powder</td>
</tr>
<tr>
<td>Color</td>
<td>Gray</td>
</tr>
<tr>
<td>Odor</td>
<td>No odor</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>10 - 12 (10% solution in water)</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>2 +/-0.05 kg/l</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific gravity / density</td>
<td>2.65</td>
</tr>
<tr>
<td>Solubility</td>
<td>Slight</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use. Reacts with water to form alkaline solution.

10.4. Conditions to avoid


10.5. Incompatible materials

Strong acids.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified
Leveline® 45
Safety Data Sheet

**Leveline® 45**
- LD50 oral rat: > 2000 mg/kg
- LD50 dermal rabbit: No data available
- LC50 inhalation rat: No data available

**Calcium sulfate (7778-18-9)**
- LD50 oral rat: > 3000 mg/kg

**Lithium carbonate (554-13-2)**
- LD50 oral rat: 525 mg/kg
- LC50 inhalation rat: > 2.17 mg/l/4h
- Skin corrosion/irritation: Causes skin irritation.
- Serious eye damage/irritation: Causes serious eye damage.
- Respiratory or skin sensitization: Based on available data, the classification criteria are not met.
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- Carcinogenicity: May cause cancer.

**Quartz (14808-60-7)**
- IARC group: 1 - Carcinogenic to humans
- National Toxicology Program (NTP) Status: 2 - Known Human Carcinogens
- Reproductive toxicity: May damage fertility or the unborn child.
- Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.
- Specific target organ toxicity (repeated exposure): Causes damage to organs through prolonged or repeated exposure.
- Aspiration hazard: Based on available data, the classification criteria are not met.
- Symptoms/injuries after inhalation: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
- Symptoms/injuries after skin contact: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
- Symptoms/injuries after eye contact: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
- Symptoms/injuries after ingestion: No known significant effects or critical hazards.

**SECTION 12: Ecological information**

**12.1. Toxicity**
- Ecology - general: No known significant effects or critical hazards.

**12.2. Persistence and degradability**
- **Leveline® 45**
  - Persistence and degradability: Not established.

**12.3. Bioaccumulative potential**
- **Leveline® 45**
  - Bioaccumulative potential: Not established.

**12.4. Mobility in soil**
- No additional information available.

**12.5. Other adverse effects**
- Effect on the global warming: No known ecological damage caused by this product.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**
- Waste disposal recommendations: This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

**SECTION 14: Transport information**

**14.1. Department of Transportation (DOT)**
- In accordance with DOT
- Not regulated for transport
14.2. **Additional information**

Other information : No supplementary information available.

Special transport precautions : Do not handle until all safety precautions have been read and understood.

**SECTION 15: Regulatory information**

15.1. **US Federal regulations**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

<table>
<thead>
<tr>
<th><strong>Lithium carbonate</strong> (554-13-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject to reporting requirements of United States SARA Section 313</td>
</tr>
<tr>
<td>SARA Section 313 - Emission Reporting</td>
</tr>
</tbody>
</table>

15.2. **US State regulations**

<table>
<thead>
<tr>
<th><strong>Leveline® 45</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>State or local regulations</td>
</tr>
</tbody>
</table>

**SECTION 16: Other information**

Date of issue : 02/09/2012

Revision date : 03/11/2015

Other information : None.

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