SECTION 1: Identification

Product identifier

Product name Unfired S Lava
Substance name Hydrated Magnesium Silicate
Mg₃Si₄O₁₀(OH)₂
Other names / synonyms S Lava, Naturally formed talc, S-Stone, Soap Stone

Recommended use of the chemical and restrictions on use
Raw material for technical ceramic components.

Supplier's details

Name Superior Technical Ceramics
Address 600 Industrial Park Road
St. Albans, Vermont 05478
USA
Telephone 802-527-7726
Fax 802-527-1181

SECTION 2: Hazard identification

This product is considered an article and does not pose any health hazard under normal use. The health effects listed below may be relevant when dust is generated during machining or other processing conditions.

Classification of the substance or mixture
Not a hazardous substance or mixture

GHS label elements, including precautionary statements
Not a hazardous substance or mixture

Other hazards which do not result in classification
Not a hazardous substance or mixture

SECTION 3: Composition/information on ingredients

Components

1. TALC
Concentration 100 - 100 %
Other names / synonyms FRENCH CHALK; HYDROUS MAGNESIUM SILICATE; MINERAL GRAPHITE; NON-ASBESTIFORM TALC; NON-FIBROUS TALC;
SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice
Naturally occurring mined mineral. Dust from machining or component pulverization can create nuisance dust leading to eye, nose, throat and/or skin irritation.

If inhaled
Move to fresh air and consult with local medical personnel if discomfort persists.

In case of skin contact
Wash affected area with soap and water and consult with local medical personnel if irritation persists.

In case of eye contact
Flush with tepid water for a minimum of 15 minutes and consult with local medical personnel if discomfort persists.

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Use any means suitable for extinguishing surrounding fire.

Special protective actions for fire-fighters
Use protective clothing and breathing equipment appropriate for the surrounding fire and to protect against the dust that may be dispersed in the air.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Any dust from machining should be wet mopped or dry vacuumed.

Methods and materials for containment and cleaning up
Any dust from machining should be wet mopped or dry vacuumed.

SECTION 7: Handling and storage

Precautions for safe handling
Any dust from machining should be wet mopped or dry vacuumed.

SECTION 8: Exposure controls/personal protection

Control parameters

1. Silicates (less than 1% crystalline silica), Talc (containing no asbestos), respirable dust (CAS: 14807-96-6)
PEL (Inhalation): See Annotated Z-3 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov
2. Silicates (less than 1% crystalline silica), Talc (containing no asbestos), respirable dust (CAS: 14807-96-6)
PEL (Inhalation): See Annotated Z-3 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

3. Silicates (less than 1% crystalline silica), Talc (containing no asbestos), respirable dust (CAS: 14807-96-6)
PEL (Inhalation): See Annotated Z-3 (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

4. Silicates (less than 1% crystalline silica), Talc (containing no asbestos), respirable dust (CAS: 14807-96-6)
REL (Inhalation): See Annotated Z-3 (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

5. Soapstone
PEL (Inhalation): See Annotated Z-3 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

6. Soapstone
PEL (Inhalation): See Annotated Z-3 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

7. Soapstone
PEL (Inhalation): See Annotated Z-3 (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

8. Soapstone
REL (Inhalation): See Annotated Z-3 (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

Appropriate engineering controls
Local or general exhaust ventilation and/or mister to control dust during machining is recommended.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
Safety goggles in the presence of airborne dust.

Skin protection
Polymer gloves for prolonged dust exposure.

Respiratory protection
NIOSH/MSHA approved respirator for dust when exposure limit is exceeded.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/form</td>
<td>Off-white solid</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>N/A</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting point</td>
<td>&gt;1299°C (2370°F)</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>N/A</td>
</tr>
<tr>
<td>Flash point</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>N/A</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Unfired S Lava

Upper/lower flammability limits: N/A
Upper/lower explosive limits: N/A
Vapor pressure: N/A
Vapor density: N/A
Relative density: 2.75 g/cc
Solubility(ies): None known
Partition coefficient: n-octanol/water: N/A
Auto-ignition temperature: N/A
Decomposition temperature: N/A
Viscosity: N/A
Explosive properties: N/A
Oxidizing properties: N/A

SECTION 10: Stability and reactivity

Chemical stability: Stable

SECTION 11: Toxicological information

No Applicable Information Found

SECTION 12: Ecological information

No Applicable Information Found

SECTION 13: Disposal considerations

Disposal of the product: This material is not hazardous per 40 CFR 261. Consultation with federal, state and local officials is recommended before disposal.

SECTION 14: Transport information

DOT (US): Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

SECTION 15: Regulatory information

US FEDERAL

TSCA: CAS# 14807-96-6 is listed on the TSCA inventory.
SARA Section 302 Extremely Hazardous Substances: Substance Not Listed.
Section 313
Substance Not Listed.

OSHA:
None of the chemicals in this product are considered highly hazardous by OSHA.

US STATE

No Applicable Information Found

California Prop 65
No components on list.

SECTION 16: Other information

Further information/disclaimer
Although reasonable care has been taken to provide accurate and current information in preparation of this document, Superior Technical Ceramics extends no warranties, makes no representation and assumes no responsibility for any loss, damage, or injury of any kind which may result from reliance of information provided in this document by any person.

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