Safety Data Sheet
Grade A Lava Powder

SECTION 1: Identification

Product identifier

Product name Grade A Lava Powder
Substance name Hydrated Aluminum Silicate
Al$_2$Si$_4$O$_{10}$(OH)$_2$
Other names / synonyms Powdered / Pulverized Form of: A Lava, Wonderstone

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

Emergency phone number(s)

802-527-7726

SECTION 2: Hazard identification

Classification of the substance or mixture
- Carcinogenicity (chapter 3.6), Cat. 1
- Specific target organ toxicity, repeated exposure (chapter 3.9), Cat. 1

GHS label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H335 May cause respiratory irritation
H350i May cause cancer by inhalation.
H372 Causes damage to organs through prolonged or repeated exposure

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
SECTION 3: Composition/information on ingredients

Components

1. Pyrophyllite
   Concentration: 80 - 95 %
   Other names / synonyms: Pyrophyllite
   CAS no.: 12269-78-2

2. Silica, crystalline (airborne particles of respirable size)
   Concentration: < 5 %
   Other names / synonyms: Quartz; Sand; Silica, crystalline (airborne particles of respirable size); Silicon (IV) oxide
   CAS no.: 14808-60-7

SECTION 4: First-aid measures

Description of necessary first-aid measures

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.

If swallowed: Administer water to dilute, but not if person is unconscious. 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

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

SECTION 7: Handling and storage

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

SECTION 8: Exposure controls/personal protection

Control parameters

1. Silica, crystalline quartz, respirable dust (CAS: 14808-60-7)
   PEL (Inhalation): See Annotated Z-3 ppm (OSHA)
   OSHA Annotated Table Z-1, www.osha.gov

2. Silica, crystalline quartz, respirable dust (CAS: 14808-60-7)
   PEL (Inhalation): See Annotated Z-3 mg/m3 (OSHA)
   OSHA Annotated Table Z-1, www.osha.gov

3. Silica, crystalline quartz, respirable dust (CAS: 14808-60-7)
   PEL (Inhalation): See Annotated Z-3 (Cal/OSHA)
   OSHA Annotated Table Z-1, www.osha.gov

4. Silica, crystalline quartz, respirable dust (CAS: 14808-60-7)
   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>Black or dark gray powder</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>N/A</td>
</tr>
</tbody>
</table>
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Initial boiling point and boiling range N/A
Flash point N/A
Evaporation rate N/A
Flammability (solid, gas) N/A
Upper/lower flammability limits N/A
Upper/lower explosive limits N/A
Vapor pressure N/A
Vapor density N/A
Relative density 1.2 g/cc
Solubility(ies) Insoluble in water, mild acid or base.
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 at room temperature. Emits gaseous carbon oxides and water vapor upon heating.

SECTION 11: Toxicological information

Information on toxicological effects
Respiratory or skin sensitization
See Section 2
Carcinogenicity
See Section 2
STOT-repeated exposure
See Section 2

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
 SECTION 15: Regulatory information

US FEDERAL

TSCA
   CAS# 12269-78-2 is Not listed on the TSCA inventory.
   CAS# 14808-60-7 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

CAS# 14808-60-7 can be found on the following state right to know lists:
   Massachusetts, Pennsylvania, Texas.
   Consult your state and local resources for further information.
California Prop 65
   Crystalline Silica (airborne particles of respirable size) is classified as a substance known to the state of
   California to be a carcinogen.

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
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