

# Safety Data Sheet

## Unfired Grade A Lava

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### SECTION 1: Identification

#### Product identifier

Product name	Unfired Grade A Lava
Substance name	Hydrated Aluminum Silicate $\text{Al}_2\text{Si}_4\text{O}_{10}(\text{OH})_2$
Other names / synonyms	Unfired Grade A Lava, A Lava, Wonderstone

#### Recommended use of the chemical and restrictions on use

Machining Blank for Technical Ceramic Component(s)

#### 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

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### 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

- 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)

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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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.

### Other hazards which do not result in classification

This product has the potential of generating respirable dust during machining. Dust may contain respirable crystalline silica. Prolonged inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of lung fibrosis are cough and breathlessness. Control and monitor occupational exposure to respirable crystalline silica dust in accordance to federal, state and local laws.

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## 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

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## 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.

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## SECTION 5: Fire-fighting measures

### Suitable extinguishing media

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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.

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## SECTION 6: Accidental release measures

### Methods and materials for containment and cleaning up

Any dust should be wet mopped or dry vacuumed.

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## SECTION 7: Handling and storage

### Precautions for safe handling

Any dust should be wet mopped or dry vacuumed.

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## 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](http://www.osha.gov)

#### 2. Silica, crystalline quartz, respirable dust (CAS: 14808-60-7)

PEL (Inhalation): See Annotated Z-3 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://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](http://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](http://www.osha.gov)

### 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.

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form

Gray, Pink or Tan Semi - Porous Solid

Odor

Odorless

Odor threshold

N/A

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pH	N/A
Melting point	N/A
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	2.3 g/cc
Solubility(ies)	Insoluble in water
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

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### SECTION 10: Stability and reactivity

#### Chemical stability

Stable at room temperature. Emits gaseous carbon oxides and water vapor upon heating.

#### Possibility of hazardous reactions

Carbon monoxide or carbon dioxide can evolve upon heating.

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### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Serious eye damage/irritation

See Section 2

##### Respiratory or skin sensitization

See Section 2

##### Carcinogenicity

See Section 2

##### STOT-repeated exposure

See Section 2

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### SECTION 12: Ecological information

**No Applicable Information Found**

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### 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.

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### SECTION 14: Transport information

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

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### 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.

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### 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.