# Safety Data Sheet Dense Mullite Ceramic

# **SECTION 1: Identification**

### **Product identifier**

Product name Substance name	Dense Mullite Ceramic Aluminum Silicate
Substance name	3Al <sub>2</sub> O <sub>3</sub> ●2SiO <sub>2</sub>
Other names / synonyms	Mullite Ceramic

#### **Recommended use of the chemical and restrictions on use** Technical Ceramic Components

# Supplier's details

Name Address	Superior Technical Ceramics 600 Industrial Park Road St. Albans, Vermont 05478 USA
Telephone Fax	802-527-7726 802-527-1181
Emergency phone number(s)	

802-527-7726

# **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. Mullite	
Concentration	75 - 95 %

Other names / synonymsMulliteCAS no.1302-93-8

2. Glassy Phase Concentration	5 - 25 %
Other names / synonyms	Glassy Phase
CAS no.	60676-86-0

# **SECTION 4: First-aid measures**

Description of necessary first-aid measures		
General advice	Production poses dust or machining swarf that may cause irritation to eyes, nose, throat, and/or skin.	
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**

**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**

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### Control parameters

#### Products Not Specifically Listed By Substance

# 1. Inert or Nuisance Dust, Total dust\*

PEL (Inhalation): 15 mg/m3 (OSHA) OSHA Annotated Table Z-3, <u>www.osha.gov</u>

#### 2. Inert or Nuisance Dust, Respirable fraction\*

PEL (Inhalation): 5 mg/m3 (OSHA) OSHA Annotated Table Z-3, <u>www.osha.gov</u>

\*All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z1

#### Appropriate engineering controls

Local or general exhaust ventilation 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

Appearance/form Odor Odor threshold pH Melting point Initial boiling point and boiling range Flash point Evaporation rate Flammability (solid, gas) Upper/lower flammability limits Upper/lower explosive limits Vapor pressure Vapor density Relative density Solubility(ies) Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity Explosive properties	Gray, Green or Purple Solid Odorless N/A N/A 1816°C (3300°F) N/A N/A N/A N/A N/A N/A N/A N/A N/A 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# 1302-93-8 is listed on the TSCA inventory. CAS# 60676-86-0 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.

#### **Preparation Information**

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