

Safety Data Sheet

Dense Mullite Ceramic

SECTION 1: Identification

Product identifier

Product name	Dense Mullite Ceramic
Substance name	Aluminum Silicate $3\text{Al}_2\text{O}_3 \bullet 2\text{SiO}_2$
Other names / synonyms	Mullite Ceramic

Recommended use of the chemical and restrictions on use

Technical Ceramic Components

Supplier's details

Name	Engineered Ceramics China Ltd
Address	Building 1, Xinlianhe Industrial Park, Heyi, Shajing, Bao'an, Shenzhen, China. +86-755-29902241 +86-755-29902499
Telephone	
Fax	

Emergency phone number(s)

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 %
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Other names / synonyms	Mullite
CAS no.	1302-93-8

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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, www.osha.gov

2. Inert or Nuisance Dust, Respirable fraction*

PEL (Inhalation): 5 mg/m³ (OSHA)

OSHA Annotated Table Z-3, www.osha.gov

*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	Gray, Green or Purple Solid
Odor	Odorless
Odor threshold	N/A
pH	N/A
Melting point	1816°C (3300°F)
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	3.0 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

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.