Safety Data Sheet Dense Alumina Ceramic

SECTION 1: Identification

Product identifier

Product name Substance name	Dense Alumina Ceramic Aluminum Oxide Al_2O_3	
Other names / synonyms	Alumina Ceramic; AL 74, AL 85, Al 94, AL 95, AL 96, AL 96P, AL 98, AL 98P, AL 995, AL 998, AL 9980, AL999	
Recommended use of the cher Technical Ceramic Components		
Supplier's details		
Name Address	Engineered Ceramics China Ltd. Building 1, Xinlianhe Industrial Park,	

Address	Building 1, Xinlianhe Industrial Par Heyi, Shajing, Bao'an, Shenzhen, China.	
Telephone	+86-755-29902241	

Telephone Fax +86-755-29902241 +86-755-29902499

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. Aluminum oxide Concentration CAS no.

> 70 - 100 % (Weight) 1344-28-1

2. Glassy Phase

Concentration

0 - 30 % (Weight)

Other names / synonyms CAS no.

Glassy Phase 60676-86-0

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	Hazard is principally that of a nuisance dust only as a byproduct of machining. Coughing or shortness of breath may occur in cases of excessive inhalation.
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.

SECTION 6: Accidental release measures

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. alpha-Alumina (CAS: 1344-28-1) PEL (Inhalation): see PNOR (Cal/OSHA) OSHA Annotated Table Z-1, www.osha.gov

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2. alpha-Alumina (CAS: 1344-28-1)

REL (Inhalation): See Appendix D (NIOSH) OSHA Annotated Table Z-1, www.osha.gov

3. alpha-Alumina, Total dust (CAS: 1344-28-1)

PEL (Inhalation): 15 mg/m3 (OSHA) OSHA Annotated Table Z-1, www.osha.gov

4. alpha-Alumina, Total dust (CAS: 1344-28-1)

PEL (Inhalation): 10 mg/m3 (Cal/OSHA) OSHA Annotated Table Z-1, www.osha.gov

5. alpha-Alumina, Respirable fraction (CAS: 1344-28-1)

PEL (Inhalation): 5 mg/m3 (OSHA) OSHA Annotated Table Z-1, www.osha.gov

6. alpha-Alumina, Respirable fraction (CAS: 1344-28-1)

PEL (Inhalation): 5 mg/m3 (Cal/OSHA) OSHA Annotated Table Z-1, www.osha.gov

Appropriate engineering controls

Local or general exhaust ventilation recommended while machining.

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

Odor thresholdN/pHN/Melting point>1Initial boiling point and boiling rangeN/Flash pointN/Evaporation rateN/Flammability (solid, gas)N/Upper/lower flammability limitsN/Upper/lower explosive limitsN/Vapor pressureN/Vapor density>3Solubility(ies)InsPartition coefficient: n-octanol/waterN/Auto-ignition temperatureN/Decomposition temperatureN/	/A 1643°C (2990°F) /A /A /A /A /A /A 3.0g/cc soluble in water /A /A
Viscosity N/	

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Explosive properties	N/A
Oxidizing properties	N/A

SECTION 10: Stability and reactivity

Chemical stability Stable

Conditions to avoid

Certain extreme acidic conditions (consult manufacturer for cautionary advice).

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# 1344-28-1 is listed on the TSCA inventory. CAS# 60676-86-0 is listed on the TSCA inventory.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313

CAS# 1344-28-1 is reported under Section 313.

OSHA:

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

US STATE

CAS# 1344-28-1 can be found on the following state right to know lists:

Illinois, Minnesota, Massachusetts, New Jersey, Pennsylvania, Texas. Consult your state and local resources for further information.

California Prop 65

Substance Not Listed

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.