

SAFETY DATA SHEET

SECTION 1: Identification

Product Name: Microwave Dielectric Ceramic Powder
Product Code: DC2893
Recommended Use: For manufacturing microwave ceramic components
Restrictions on Use: Not for food, drug, or cosmetic use

Supplier:
Stanford Advanced Materials
1940 East Deere Avenue, Suite 100
Santa Ana, CA 92705, USA
Tel: (949) 407-8904

SECTION 2: Hazard Identification

GHS Classification:
Eye Irritation Category 2A

Label Elements:

Warning

Hazard Statements:

- Causes serious eye irritation
- May cause skin irritation
- Dust may cause respiratory tract irritation or sensitization
- Prolonged exposure to dust may lead to pneumoconiosis

Precautionary Statements:

- Avoid breathing dust
- Wear protective gloves/eye protection/face protection
- Wash hands thoroughly after handling
- Use only outdoors or in a well-ventilated area

SECTION 3: Composition/Information on Ingredients

Chemical Name	CAS Number	Content (% by weight)
Magnesium Titanate (MgTiO ₃)	12032-30-3	~55%
Calcium Titanate (CaTiO ₃)	12049-50-2	~45%

SECTION 4: First Aid Measures

Inhalation:

- Move affected person to fresh air.
- If breathing has stopped, perform artificial respiration.
- If breathing is difficult, administer oxygen and seek medical help.

Skin Contact:

- Wash with soap and water for at least 15 minutes.

Eye Contact:

- Rinse with water for at least 15 minutes.

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- Seek medical advice.

Ingestion:

- Induce vomiting only if advised by medical personnel.
- Seek medical assistance.

SECTION 5: Firefighting Measures

Flammability: Non-flammable

Flash Point: Not applicable

Extinguishing Media: Use appropriate media for surrounding fire

Explosion Hazard: None

Firefighting Instructions:

- Avoid direct water spray to prevent dust dispersal
- Use water mist to settle airborne dust
- Wear self-contained breathing apparatus

SECTION 6: Accidental Release Measures

Personal Precautions:

- Refer to Sections 5, 7, and 8
- Use appropriate PPE to avoid dust inhalation

Spill Cleanup:

- Evacuate non-essential personnel
- Use tools to avoid dust generation
- Ensure adequate ventilation

SECTION 7: Handling and Storage

Handling:

- Use in well-ventilated areas
- Avoid dust accumulation
- Maintain good hygiene

Storage:

- Store in dry, ventilated space
- Keep away from acids and oxidizers
- Use sealed containers

SECTION 8: Exposure Controls/Personal Protection

- Operate under local exhaust if dust is present
- Wear dust mask, goggles, gloves, protective clothing
- Wash hands before eating, drinking, or smoking
- Provide eye wash and emergency shower equipment

SECTION 9: Physical and Chemical Properties

Appearance: Grey odorless powder

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Solubility: Insoluble in water

Relative Density: ~1.1

Melting Point: >1600°C

Odor: None

SECTION 10: Stability and Reactivity

Stability: Stable under normal conditions

Hazardous Reactions: None known

Polymerization: Will not occur

Conditions to Avoid: Acids and strong oxidizers

SECTION 11: Toxicological Information

Acute Toxicity: None known

Chronic Toxicity: Prolonged inhalation may cause pneumoconiosis

Skin/Eye Irritation: May cause mild irritation

SECTION 12: Disposal Considerations

Dispose of in accordance with local regulations or contact manufacturer for disposal information

SECTION 13: Transport Information

Not regulated as hazardous material by DOT/IATA/IMDG

SECTION 14: Regulatory Information

Not classified as hazardous according to IATA/ICAO/DOT/IMDG

SECTION 15: Other Information

The information provided is based on current knowledge and does not constitute a warranty. Users must determine compliance with applicable laws and suitability for intended use.