

**GELEST, INC.**

11 East Steel Rd. Morrisville, PA 19067  
Phone: (215) 547-1015

**MATERIAL SAFETY  
DATA SHEET**

**EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300**

NAME USED ON LABEL: **MULLITE - SIM6594.85**  
CHEMICAL NAME: MULLITE, natural  
SYNONYMS: ALUMINUM SILICATE, NATURAL MULLITE  
CHEMICAL FAMILY: INORGANIC SILICATE  
FORMULA:  $Al_6O_{13}Si_2$ .

HMIS CODES HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV	OSHA PEL
MULLITE,	1302-93-8	>85	not established	10mg/m <sup>3</sup>
SILICON DIOXIDE, AMORPHOUS	7631-86-9	5-10	10mg/m <sup>3</sup>	6mg/m <sup>3</sup> TWA
KAOLIN, uncalcined	1302-76-7	5-10	2mg/m <sup>3</sup>	10mg/m <sup>3</sup>
SILICON DIOXIDE, CRYSTALLINE	7631-86-9	1-2	0.1mg/m <sup>3</sup>	10mg/m <sup>3</sup>

**PHYSICAL DATA**

Boiling Point: NA	Melting Point: > 600°C
Specific Gravity: 3.05	Vapor Pressure, 20°: <0.01mm
Vapor Density (air = 1): NA	Solubility in water: insoluble
% volatiles: 100	Evaporation rate: NA
Molecular Weight: 319,54	Other: NA
Appearance & Color: White powder	

**FIRE & EXPLOSION DATA**

Flash Point, COC: none                      Autoignition Temp.: NA  
Flammability Limits- LEL: NA    UEL: NA

Extinguishing Media: Not combustible.  
Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe particulates.  
Unusual Fire and Explosion Hazards: None  
-1-(SIM6594.85)

## ENVIRONMENTAL INFORMATION

Spill response: Sweep material, avoiding inhalation of particulates.

Recommended Disposal: Landfill. Follow all chemical pollution control regulations.

## HEALTH HAZARD DATA

Eye Contact: Particulates may cause immediate or delayed eye irritation.

Skin contact: May produce irritation. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of particulates may irritate the respiratory tract. Overexposure may produce coughing, headache and nausea.

Oral Toxicity: not determined

Chronic Toxicity: There are no known chronic effects related to this compound.

### SUGGESTED FIRST AID

**EYES:** In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.

**SKIN:** Flush with water, then wash with soap and water.

**INHALATION:** Move exposed individual to fresh air. Call a physician.

**INGESTION:** Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get medical attention.

## REACTIVITY DATA

Stability: Stable.

Conditions to avoid: None determined

Incompatibility (materials to avoid): None determined

Hazardous decomposition products: None determined

-2-(SIM6594.85)

## SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV for particulates, a NIOSH approved dust mask is required.

Eye and Face Protection: Safety glasses.

Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available. Launder clothing before reuse.

## OTHER PRECAUTIONS

For research and industrial use only.

Storage and Handling: Store in sealed containers.

## TRANSPORTATION

DOT SHIPPING NAME: NOT REGULATED

DOT HAZARD CLASS: NOT REGULATED

DOT LABELS: NOT REQUIRED

DOT ID No: NOT REQUIRED

Prepared by safety and environmental affairs

ISSUE DATE SIM6594.85: 6/10/11

SUPERSEDES: none

The information contained in this document has been gathered from reference materials and/or Gelest, Inc. test data and is to the best knowledge and belief of Gelest, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Gelest, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specifications.

-3-(SIM6594.85)

© 2011 Gelest Inc. Morrisville, PA 19067