



MATERIAL SAFETY DATA SHEET

SECTION 1. Chemical Product and Company Identification			
Product Name:	Unfired Steatite	Chemical Name:	Magnesium Silicate
Supplier:	Superior Technical Ceramics Corp. 600 Industrial Park Road St. Albans, VT 05478 (802) 527-7726 phone (802) 527-1181 fax	<u>In Case of Emergency Call:</u> (802) 527-7726	
Synonym:	Man-made talc.		
Material Use:	Raw material for technical ceramic components.		
Date Prepared:	June 24, 2009		
Prepared By:	Janna L. Bevins/Brian H. Gold		

SECTION 2. Composition, Information or Ingredients			
NAME:	CAS#:	% BY WEIGHT	COMMENTS:
Hydrated Magnesium Silicate	14807-96-6	>70	2 mg/m ³ TLV and OSHA PEL; contains >1% crystalline silica (OSHA PEL: 0.1 mg/m ³)
Clay	1332-58-7	7-15	OSHA PEL: 0.1 mg/m ³ ; contains >1% crystalline silica
Organic Binders		3-10	Proprietary, but not hazardous.
Oxide Additives		2-6	Alkaline earth oxides and carbonates.

SECTION 3. Hazards Identification			
Emergency Overview:			
Organic portion is combustible. The dust contains crystalline silica and may cause irritation to eyes, nose, throat, and/or skin.			
Health Rating:	Flammability Rating:	Reactivity Rating:	Contact Rating:
2 – Moderate	0 – None	0 – None	2 – Moderate
Lab Protective Equipment:	Eye protection and proper dust collection if machining occurs.		
Storage Color Code:	Green (General Storage)		



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Potential Health Effects:	
Inhalation:	Hazard is principally that of a nuisance dust formed during machining. Coughing or shortness of breath may occur in cases of excessive inhalation.
Ingestion:	No adverse effects expected.
Skin Contact:	No adverse effects expected but dust may cause irritation.
Eye Contact:	No adverse effects expected but dust may cause irritation.
Chronic Exposure:	Chronic exposure to dust may lead to pneumoconiosis.
Aggravation of Pre-existing Conditions:	Not expected to be a health hazard.

SECTION 4. First Aid Measures	
Inhalation:	Move to fresh air and consult with local medical personnel if discomfort persists.
Ingestion:	NIA
Eye Contact:	Flush with tepid water for a minimum of 15 minutes and consult with local medical personnel if discomfort persists.
Skin Contact:	Wash affected area with soap and water and consult with local medical personnel if irritation persists.

SECTION 5. Fire-Fighting Measures	
Fire:	Possible Class A fire hazard. Binders contained in material have a flashpoint approximately 220°C (428°F).
Explosion:	Not considered an explosion hazard.
Fire Extinguishing Media:	Use any means suitable for extinguishing surrounding fire.
Special Information:	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	
Any dust from machining should be wet mopped or dry vacuumed.	

SECTION 7. Handling and Storage	
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SECTION 8. Exposure Controls and Personal Protection	
Airborne Exposure Limits:	2 mg/m ³ TLV and OSHA PEL; contains >1% crystalline silica (OSHA PEL: 0.1 mg/m ³)
Ventilation System:	Local or general exhaust ventilation and/or mister to control dust is recommended.
Personal Respirators (NIOSH Approved):	NIOSH/MSHA approved respirator for dust when exposure limit is exceeded.
Skin Protection:	Polymer gloves for prolonged dust exposure.
Eye Protection:	Safety goggles in the presence of airborne dust.

SECTION 9. Physical and Chemical Properties			
Appearance:	Pink, Gray or Blue	pH:	NIA
Odor:	Odorless	Boiling Point:	NIA
Solubility:	Organic portion soluble in water.	Melting Point:	1890°C (3434°F)
Specific Gravity:	1.8-2.0 g/cc	Vapor Pressure/ Vapor Density:	NIA

SECTION 10. Stability and Reactivity			
Chemical Stability:	Stable	Hazardous Polymerization:	NIA
Hazardous Decomposition:	Carbon monoxide and carbon dioxide in a fire and at temperature >220°C (428°F).		
Incompatibilities:	Water	Conditions to Avoid:	Water

SECTION 11. Toxicological Information
NIA

SECTION 12. Ecological Information
NIA

SECTION 13. Disposal Considerations
This material is not hazardous per 40 CFR 261. Consultation with federal, state and local officials is recommended before disposal.

SECTION 14. Transport Information
Not regulated.