360 MATERIALS	360 Materials, LLC P.O. Box 317 Chester, NY 10921- (845)645-3635 Emergency (845)645-3635	**Safety Data Sheet** **For Mullite Blanket and Boards**	**Document #:** **SDS-100**	**Rev.:** 02	**Date:** 1/2/2020

1. Product Identification

Product Types: Mullite Blanket and Mullite Boards

Synonym: Alumina Silica Fibrous Products, Mullite

2. Hazards Identification

Classification of Substance or Mixture

Classification (GHS-US): None

Hazards not otherwise classified: Exposure may aggravate those with pre-existing skin conditions.

3. Composition

Component	Synonyms	CAS Number	% by Weight	Classification (GHS-US)
Aluminum Oxide Fibers	Alumina	1344-28-1	99-60	None
Silica (amorphous)	N/A	7631-86-9	1-40	None

4. First Aid Measures

Inhalation: Remove to fresh air. Rinse mouth to clear throat and expel liquid. Blow nose to evacuate dust. Consult a physician if irritation persists.

Eye Contact: Do not rub eyes. Keep hands or contaminated body parts away from eyes. Remove contact lenses. Flush with water. If irritation persists, consult a physician.

Skin Contact: W ash with soap and water. For dryness, a skin cream may be helpful. Do not apply anything to a rash. Consult a physician if irritation persists.

Ingestion: Do not induce vomiting without advice of a physician. Seek medical attention.

5. Fire-Fighting Measures: Product is not flammable. **Special Hazards arising from the substance:** None **Advice for firefighters:** None

6. Accidental Release Measures: Clean up with a sponge, mop or damp cloth. When dried, clean up minimizing airborne dust.

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid contact with skin, eyes, or clothing. Avoid breathing dust.

For Non-Emergency Personnel: Use appropriate personal protection equipment (PPE), gloves, glasses, dust mask.

For Emergency Responders: Equip cleanup crew with proper protection. Ventilate area.

Environmental Precautions: None.

References to Other Sections: See section 8. Exposure Controls/ Personal Protection. For waste disposal refer to section 13.

7. Handling and Storage

Precautions for Safe Handling

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Machining and cutting: These materials may produce nuisance dust when machined or cut.

Conditions for Safe Storage, Including any Incompatibilities

Storage conditions: These materials are stable and may be stored indefinitely.

Incompatible Products: Powerful oxidizers, acids and bases

Specific End Use: Insulation

8. Exposure Controls/ Personal Protection

Control Parameters

Aluminum Oxide fiber is not listed here as it is not classified as hazardous.

Silica (amorphous)	OSHA PEL as 8 hr TWA	10 mg/m^3	5 mg/m^3 (respirable fraction)

After uses above 1000C, trace amounts of cristobalite (crystalline silica) may form. Removal of this product may generate dust. The control parameters reference cristobalite, respirable dust.

OSHA PEL as 8 hr TWA	0.05 mg/m^3	ACGIH TLV	0.025 mg/m^3

Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation. Emergency eye wash should be available. Ensure regulations are observed.

Personal Protective Equipment: Protective goggles, gloves, protective clothing. Dust formation: dust mask type N95.

Environmental Exposure Controls: Do not allow the product to be released into the environment.

Consumer Exposure Controls: Do not eat, drink or smoke during use.

9. Physical and Chemical Properties

Physical State	Blankets, Boards, Fibers	**Auto ignition Temperature**	No data available
Color	White	**Decomposition Temperature**	
Odor	Odorless	**Flammability (solid, gas)**	
Odor Threshold	No data available	**Vapor Pressure**	
pH		**Relative Vapor Density at 20C**	
Evaporation Rate		**Relative Density**	
Melting/ Freezing Point	1871 C	**Solubility**	
Boiling Point	No data available	**Partition Coefficient: N-Octanol/ Water**	
Flash Point		**Viscosity**	

10. Stability and Reactivity

Reactivity: Hazardous reactions will not occur under normal conditions. **Chemical Stability:** Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Incompatible Materials: Powerful oxidizers, acids, bases.

Hazardous Decomposition Products: None.

11. Toxicological Information: May cause cancer. IARC Group 1, known human carcinogen, OSHA Hazard communication carcinogen list.

Epidemiology: No Information Available **Distribution:** Alumina, and silica are naturally occurring and widely distributed in igneous rock. Deposits in sedimentary rock may be found. **Chemical Fate Information:** The relative inertness of this material indicates that it may be highly persistent in the environment. No information regarding any negative effects of this persistence has been noted

12. Ecological Information: Ecological data are not available.

13. Disposal Considerations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

14. Transportation Information: Not regulated hazardous substances, no specific regulations apply.

15. Regulatory Information

WHMIS Status: Ceramic fibers with ≤3µm diameter and an aspect ratio of <3:1 are Class D2 controlled product based on an IARC 2B Classification. Mullite fibers are 6µm in diameter and are not respirable and therefore not controlled.

California Proposition 65: Mullite fibers are not respirable and are not controlled.

SARA Section 313 Supplier Notification: This product does not contain toxic chemicals subject to the reporting requirements of the Superfund Amendments and Reauthorization Act of 1986 Section 313 (40 CFR 372).

16. Other Information: The information contained herein is based on data considered to be accurate as of the preparation or revision date. It is provided in good faith and in compliance with state and federal regulations. No warranty or representation, express or implied is made as to the accuracy or completeness of this information. Other national, state and/or local regulations may apply.