



# Safety Data Sheet

**PRODUCT NAME: Lewco SUPERMAT LAM-PTFE**

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** Super Insulation, LLC  
Lewco SuperMat LAM-PTFE (with integral jacket of PTFE-coated fiberglass fabric)

**Product Use Description:** Fluoropolymer-coated fiberglass mat/blanket for insulation material as outer layer.

**Manufacturer/Distributor:** Super Insulation, LLC.  
6859 Renoir Avenue  
Baton Rouge, LA 70806

**Telephone:** (800) 221-6414 TX & AR (800) 233-9755  
(225) 924-3221 Fax (225) 927-2918

**Emergency Telephone:** Not available

## 2. HAZARDS IDENTIFICATION

**GHS hazard classification** Not a hazardous substance or mixture.

**GHS label elements** Not a hazardous substance or mixture.

**Precautionary statements** Temporary mechanical abrasion (itching) of skin, eyes may occur upon prolonged direct skin exposure to fibers during handling of this product.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS number	% by weight
Fibrous glass	65997-17-3	60-90
Polytetrafluoroethylene (PTFE)	9002-84-0	1-20
Silicone resin	N/A	1-25
Pigment	N/A	1-10
Silica particle (encapsulated in resin) (See Section 8 for Exposure Limits)	N/A	0.1-10



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## 4. FIRST AID MEASURES

- Inhalation:** Remove from exposure. If irritation persists in any of these situations, a physician should be consulted.
- Skin Contact:** Do not rub. Wash with soap and water. Use skin cream to sooth irritation. Wash clothes separately. A shower after work is recommended. Irritation typically will not persist if good personal hygiene habits are followed.
- Eye Contact:** Flush with running water for at least 15 minutes. Using sterile eye wash, flush foreign bodies from eyes.
- Ingestion:** Drink extra water to assist natural elimination. Seek medical attention if gastrointestinal irritation persists or other symptoms such as nausea, vomiting, or abdominal pain occur.

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## 5. FIRE FIGHTING MEASURES

- Suitable extinguishing equipment:** Water, foam, carbon dioxide (CO<sub>2</sub>), dry chemical, sand
- Flammable Properties:** PTFE: Flash point, not applicable; Ignition temperature, 986-1,022°F (ASTM D 1929); Auto-ignition temperature, 968-1,040°F (ASTM D 1929)  
Silicone: auto-ignition point, 700°F (371°C).
- Specific hazards:** Fiberglass is not flammable, is incombustible and does not support combustion. When exposed to temperature above 752°F, hazardous thermal decomposition products of PTFE can contain acid fluorides, fluorinated compounds, hydrogen fluoride, and carbon monoxide. Thermal decomposition of silicone may produce an irritating mixture of noxious/toxic smoke and fumes, formaldehyde, carbon dioxide, and carbon monoxide.
- Special protective equipment or precautions for firefighters:** Use personal protective equipment. Wear self-contained breathing apparatus (SCBA) for firefighting if necessary. Wear full turnout gear or Level A equipment to protect skin, eyes and respiratory system from contact with HF. Decontaminate personnel and equipment with water wash-down after fire and smoke exposure, as well as after salvage.

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## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Use means of collection and cleanup that avoids generation of dust.

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## 7. HANDLING AND STORAGE

- Handling:** Smoking, eating and drinking should be prohibited in the application area.
- Storage:** Keep product in packaging until use to help keep clean of contaminants.



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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### EXPOSURE LIMITS

<u>Component</u>	<u>Limit/set by</u>
Fibrous Glass	OSHA: TLV-TWA 15 mg/m <sup>3</sup> (total nuisance dust) and 5 mg/m <sup>3</sup> (respirable nuisance dust) NIOSH: REL/TWA-5 mg/m <sup>3</sup> (total glass dust), and 3f/cc (respirable fibers).
PTFE	OSHA: PEL, 15 mg/m <sup>3</sup> (total dust) and 5mg/m <sup>3</sup> (respirable fraction); TLV-TWA, 10mg/m <sup>3</sup> (inhalable particulate) and 3mg/m <sup>3</sup> (respirable particulate)
Silicone	Not available
Pigment	OSHA: 15 mg/m <sup>3</sup> PEL (total dust)
Silica particle	OSHA: TWA, 2 mg/m <sup>3</sup> (respirable dust)

### ENGINEERING CONTROLS

Ventilation: General dilution ventilation and/or local exhaust ventilation should be provided, as necessary to maintain exposures below TWL's limitation

### PERSONNEL PROTECTIVE EQUIPMENT

Respiratory Protection: No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit, or if irritation occurs, use approved respiratory protection in accordance with your company's respiratory protection program and requirements of the local governmental jurisdiction.

Hand Protection: Wear gloves when handling this product.

Eye Protection: Safety glasses or goggles.

Protective Clothing: Wear loose fitting, long sleeved shirt and long pants if irritation is experienced.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance (physical state, color, etc.):</b>	Solid, Dark grey/grey
<b>Upper/lower flammability or explosive limits:</b>	Not available
<b>Odor:</b>	No odor
<b>Vapor pressure:</b>	Not available
<b>Odor threshold:</b>	Not available
<b>Vapor density:</b>	Not available
<b>pH:</b>	Not available
<b>Relative density Specific Gravity (H<sub>2</sub>O=1):</b>	0.15 – 0.25
<b>Melting point:</b>	> 600 °F for PTFE
<b>Softening point:</b>	Approx. 1500 °F for fibrous glass
<b>Solubility(ies):</b>	Insoluble in water
<b>Initial boiling point and boiling range:</b>	Not available
<b>Flash point:</b>	Not available
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid, gas):</b>	Not available
<b>Partition coefficient(n-octanol/water):</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	572 °F (300°C) for silicone adhesive between the fabric and Lewco SuperMat
<b>Viscosity:</b>	Not available

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## 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Product is stable under normal conditions of use
<b>Conditions to avoid:</b>	Avoid heating for prolonged periods above the recommended upper usage limit. Fabric strength is destroyed in strong bases and hydrofluoric acid.  Indoor applications above 600°F requires proper ventilation.
<b>Materials to avoid:</b>	PTFE can react with finely divided metal powders such as aluminum, magnesium and with strong oxidizers like fluorine and fluorine chloride to produce fire and/or explosion. Fibrous glass is not compatible with the strongly basic phosphates, hydrofluoric acids, some oxides and hydroxides; especially at elevated temperatures.
<b>Hazardous decomposition products:</b>	First-time heating of PTFE to a temperature within, or above, the range of 716-752°F results in short term release of decomposition products such as hydrogen fluoride (HF) and carbonyl fluoride (COF <sub>2</sub> ).  In a fire, silicone (lamine adhesive) produces small amounts of incompletely burned hydrocarbon gases, formaldehyde, carbon monoxide and carbon dioxide. Formaldehyde is a known skin, eye, and throat irritant as well as a potential cancer hazard.
<b>Possibility of hazardous reactions/reactivity:</b>	Not available

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## 11. TOXICOLOGICAL INFORMATION

<b>Likely routes of exposure:</b>	Textile glass products do not contain hazardous or toxic ingredients
<b>Chronic toxicity/effects from short- and long-term exposure:</b>	Not available
<b>Acute toxicity:</b>	<u>PTFE</u> : LD50/rat > 11,280 mg/kg (oral); Carbon black: LD50/rat > 5,000 mg/kg (oral); Soda Lime Borosilicate Glass: LD50 estimated to be 2,000 - 5,000 mg/kg (oral), LD50 estimated to be > 5,000 mg/kg (dermal).
<b>Carcinogens:</b>	Textile glass products are not carcinogenic. They have a nominal filament diameter of 9µm. The smallest possible filament diameter is 6µm. According to the TRGS 905 (April 1996), fine fiber dust can be carcinogenic only if all following conditions are fulfilled: fiber length > 5µm, diameter < 3µm, ratio of length to diameter > 3:1.

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## 12. ECOLOGICAL INFORMATION

Textile glass fiber is made from mineral raw material and does not have essential organic substances. It is not biologically decomposable. Textile glass fiber, silicone and PTFE are ecologically harmless.

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## 13. DISPOSAL CONSIDERATIONS

### Waste Disposal Method

Dispose in accordance with federal, state, and local regulations as a solid non-hazardous waste. This material is not regulated under RCRA hazardous waste regulations.



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## 14. TRANSPORT INFORMATION

No special measures are necessary for the transportation and labeling by land, sea or air. Transport in closed vehicles in original packaging to protect product cleanliness.

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## 15. REGULATORY INFORMATION

EPA, RCRA 40 CFR, Part 261, 1990: Non-hazardous

SARA Section 311/312 (40 CFR 370) Hazard Categories for silicone: Acute: Yes, Chronic: No, Fire: No, Pressure: No.

CERCLA: Not listed

SARA Title III: Exempt by definition

PA Right-to-Know: Less than reportable quantity

TSCA Inventory: Exempt per section 8(a), 710.2(f), and 704.5(a)

CA Proposition 65: Not listed

MA Right-to-Know: Less than reportable quantity

NJ Right-to-Know: Less than reportable quantity

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## 16. OTHER INFORMATION

**Disclaimer:** Super Insulation, LLC makes no warranty of any kind regarding the accuracy or completeness of the information contained herein. Users should independently determine the suitability and completeness of information from all sources for their particular purpose(s). While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the User's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with, or otherwise come in contact with, these materials.