



MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: BH – Therm-L-Lite FG [®]	Manufacturer: Federal-Mogul Corporation 26555 Northwestern Highway Southfield, MI 48033
MSDS# BH-125	24hr Emerg # (Infotrac): 1-800-535-5053 International: 001-352-323-3500 Non-Emerg #: 248-354-9844

SECTION 2: COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

BH – Therm-L-Lite FG[®] is a woven, one-piece fiberglass sleeve material that is adhesively bonded with an aluminized heat-seal film. A proprietary manufacturing process permits the sleeve to boast a virtually seamless construction, allowing the product to easily conform to complex geometric designs. It provides improved abrasion resistance and protects products from extreme radiated temperatures. Engineered to protect hoses and wire assemblies from the effects of radiant heat, it also provides superior fluid and chemical resistance.

Although several of the ingredients used to formulate this product may be hazardous in the raw state, the manufacturing process results in a solid, infusible form, binding and otherwise, rendering the product inert. The constituents identified below may be present in quantities greater than 1% (0.1% for carcinogens) that may be released from the product by such operations as overheating, burning, machining, abrading, or riveting.

The information in this document provides the minimum criteria for safe usage and handling of this product. Companies using this product should develop their own occupational health program to protect employees from injury or adverse health effects.

Ingredient	CAS No.	% Weight	OSHA PEL	ACGIH TLV (2005)
Continuous filament glass fibers	65997-17-3	90	1 f/cc*	1 f/cc or 5 mg/m ³
Aluminized pressure-sensitive film	Proprietary	10	None established	None established

* proposed

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

The product is not considered hazardous, but operations (e.g., overheating, burning, machining, abrading, or riveting) that can create airborne dust should be avoided.

POTENTIAL HEALTH EFFECTS

Inhalation: Dust or vapor may cause respiratory irritation.

Skin: Prolonged contact may cause skin irritation.

Eye: Dust particles may cause irritation or corneal injury due to mechanical action.

Ingestion: Not a probable route of entry.

POTENTIAL HEALTH EFFECTS (continued)

Carcinogenicity:

	COMPONENT		
	NTP	IARC	OSHA
Continuous filament glass fibers	No	3	No
Aluminized pressure-sensitive film	No	3	No

Symptoms and Effects of Exposure to Selected Individual Components

CONTINUOUS FILAMENT GLASS FIBERS

Acute - May cause irritation to skin, eyes, nose, and throat. May cause skin rash, conjunctivitis, coughing and sneezing.

Chronic – Although some studies of fibrous and mineral wool workers have shown a link to lung cancer in humans, those studies have clearly provided no evidence of a link between lung cancer and continuous filament fiberglass exposure..

SECTION 4: FIRST AID MEASURES

Inhalation:	Move to fresh air. If irritation persists, seek medical attention.
Eye Contact:	Rinse thoroughly with ample amounts of water. If irritation persists, seek medical attention.
Skin Contact:	Wash exposed area with soap and cool water. Avoid scratching irritated areas. If irritation persists, seek medical attention.
Ingestion:	Not a probable route of entry.

SECTION 5: FIRE FIGHTING MEASURES

Flashpoint: N/A	LEL: N/A	UEL: N/A	Autoignition Temperature: >250°C
Extinguishing Media:	Use appropriate media type for surrounding materials.		
Unusual Fire and Explosion Hazards:	None known.		
Special Fire-Fighting Procedure:	Wear self-contained breathing apparatus when extinguishing a fire.		

SECTION 6: ACCIDENTAL RELEASE MEASURES

If dust is generated, remove the dust by vacuuming or wet-mopping. Vacuums used for this purpose should be equipped with HEPA filters. Do not use compressed air to blow dust from surfaces.

SECTION 7: HANDLING AND STORAGE

Store in a cool, dry place. If dust is generated during shipping, remove the dust from the container by vacuuming or wet-mopping. Vacuums used for this purpose should be equipped with HEPA filters. Do not use compressed air to blow dust from surfaces.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Protection: Any operation which may produce dust, including machining, grinding, riveting, or abrading this product, should be adequately exhausted to prevent inhalation of dust.

Respiratory Protection: Use a NIOSH-approved respirator if there is a potential for exposure to exceed applicable PELs or TLVs. (See 29 CFR 1910.134, OSHA Respiratory Protection Standard.)

Skin Protection: If skin irritation occurs, gloves and other protective garments may be worn. For cutting operations, gloves and loose-fitting clothing are recommended to be worn.

Eyes: Wear safety glasses or goggles when cutting the material.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	N/A	Vapor Pressure:	N/A
Melting Point:	>500°F	Vapor Density (air = 1):	N/A
pH:	N/A	% Volatile:	N/A
Specific Gravity:	2.2	Evaporation Rate:	N/A
Water Solubility:	Insoluble	Form, Color, and Odor:	Solid, aluminum color, odorless

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable at normal temperatures and storage conditions

Incompatibility (Materials/Conditions to Avoid): Strong oxidizing agents

Hazardous Polymerization: Will not polymerize

Decomposition Products: Thermal decomposition will occur at temperatures above 250°C, and may produce carbon monoxide, carbon dioxide, and nitrogen oxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation: Refer to Section 3
Skin: Refer to Section 3
Eye: Refer to Section 3
Ingestion: Refer to Section 3
Acute: None known
Chronic: None known

SECTION 12: ECOLOGICAL INFORMATION

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Federal and state law regulates disposal of scrap material or dust as solid waste laws. Contact local regulatory agencies for guidance.

SECTION 14: TRANSPORTATION INFORMATION

Proper Shipping Name: Not regulated
Hazard Class: N/A
Identification Number: N/A
Packing Group: N/A
Shipping Label: None
Additional Marking Requirement: None

SECTION 15: REGULATORY INFORMATION

U.S. TSCA: The chemicals used to manufacture this product are listed on the U.S. Toxic Substances Control Act (TSCA) Inventory.

California Proposition 65: This product does not contain ingredients known to the State of California to cause cancer, birth defects or other reproductive effects.

SARA Title III – Section 313 Supplier Notification: This product does not contain chemicals subject to SARA Title III/CERCLA “reportable quantities” (RQs) and/or “threshold planning quantities” (TPQs) and are classified as “Toxic Chemicals” under the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and 40 CFR 372.

RCRA Hazardous Waste Code: Not available.

CERCLA Hazardous Substances: Not available.

OSHA: OSHA has not established a PEL for the constituents or the product.

WHMIS Classification: Not available.

SECTION 16: OTHER INFORMATION

Abbreviations:

CAS No.:	Chemical Abstract Services Number
OSHA PEL:	U.S. Occupational Safety and Health Administration, Permissible Exposure Limit
ACGIH TLV:	American Conference of Governmental Industrial Hygienists, Threshold Limit Value (2005)
f/cc:	Fibers per cubic centimeter of sampled air
mg/m ³ :	Milligrams of contaminant per cubic meter of sampled air, on a weight-to-volume basis
N/A:	Not Applicable
IARC:	International Agency for Research on Cancer
NTP:	National Toxicology Program
HEPA:	High-efficiency particulate air
NIOSH:	National Institute of Occupational Safety and Health

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