



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** BH-Flexfit Products

**Manufacturer:**

Federal-Mogul Corporation  
26555 Northwestern Highway  
Southfield, MI 48033

**MSDS#** TN-104

**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-Flexfit sleeving products are tough, lightweight oversleeves designed to protect cable assemblies, hoses and wire harnesses. These products feature braided polyester monofilaments that increase cut-through strength and abrasion resistance of thermal and electrical insulating surfaces.

The following information 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.

<b>Ingredient</b>	<b>CAS No.</b>	<b>% Weight</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>
Polyester Monofilament	Not Established	99.7	None Established	None Established
Inorganic Pigments	Not Established	0.3	None Established	None Established

### **SECTION 3: HAZARDS IDENTIFICATION**

#### **EMERGENCY OVERVIEW**

Shipped material 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 from abnormal abrasion and/or vapors caused by heating above 300°C may cause respiratory irritation.

**Skin:** Molten material can cause thermal burns.

**Eye:** Dust particles may cause irritation due to mechanical action.

**Ingestion:** Not a probable route of entry.

POTENTIAL HEALTH EFFECTS (continued)	
<b>Carcinogenicity:</b>	
	<b>COMPONENT</b> <b>NTP</b> <b>IARC</b> <b>OSHA</b>
Polyester Monofilament	No No No
Inorganic pigments	No No No
<b>Symptoms and Effects of Exposure to Selected Individual Components</b>	
<b>Exposure Hazards:</b> None known	

SECTION 4: FIRST AID MEASURES	
<b>Inhalation:</b>	Avoid vapors from re-melt operations. Move to fresh air. If irritation persists, seek medical attention.
<b>Eye Contact:</b>	Flush with water for 15 minutes. If irritation persists, seek medical attention.
<b>Skin Contact:</b>	Wash thoroughly with soap and water. If molten material falls on skin, do not attempt to remove material from skin, but cool immediately with water. Seek medical attention.
<b>Ingestion:</b>	Seek medical attention.

## SECTION 5: FIRE FIGHTING MEASURES

This product is inherently flame resistant, but may ignite at temperatures exceeding 600°C in an oxygen-enriched atmosphere.

**Flashpoint:** N/A      **LEL:** N/A      **UEL:** N/A      **Autoignition Temperature:** N/A

**Extinguishing Media:** Use media suitable for surrounding fire.

**Unusual Fire and Explosion Hazards:** None

**Special Fire-Fighting Procedure:** Wear self-contained breathing apparatus when extinguishing. Hazardous decomposition products are generated in fire conditions.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Scrap monofilament may present a slipping hazard. Use good housekeeping practices. If dust is generated machining, abrading, cutting or riveting, remove the dust by vacuuming or wet-mopping or place in an airtight polyethylene bag. Vacuums should be equipped with HEPA filters. Do not use compressed air to blow dust from containers or from surfaces.

## SECTION 7: HANDLING AND STORAGE

Store in a cool, dry place. Shipping and storage may result in accumulation of dust in shipping containers. If this occurs, remove dust by vacuuming or wet-mopping or place in an airtight polyethylene bag. 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, heating or abrading of 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 exceeds 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. Wear gloves when handling monofilaments to prevent cuts.

**Eyes:** Wear safety glasses or goggles, as necessary, if dust exposure is possible.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point:</b>	N/A	<b>Vapor Pressure:</b>	N/A
<b>Melting Point:</b>	250°C	<b>Vapor Density (air = 1):</b>	N/A
<b>pH:</b>	N/A	<b>% Volatile:</b>	N/A
<b>Specific Gravity:</b>	1.38 g/cc	<b>Evaporation Rate:</b>	N/A
<b>Water Solubility:</b>	Insoluble	<b>Form and Odor:</b>	Solid, odorless

## SECTION 10: STABILITY AND REACTIVITY

<b>Stability:</b>	Stable at normal temperatures and storage conditions.
<b>Incompatibility (Materials/Conditions to Avoid):</b>	Strong bases
<b>Hazardous Polymerization:</b>	Will not polymerize
<b>Decomposition Products:</b>	Avoid exposing to temperatures above 300° C for prolonged periods of time. At this temperature, thermal decomposition starts to occur producing such by-products as carbon monoxide and trace amounts of esters, alcohols, acids and acetaldehyde.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>Inhalation:</b>	Refer to Section 3
<b>Skin:</b>	Refer to Section 3
<b>Eye:</b>	Refer to Section 3
<b>Ingestion:</b>	Refer to Section 3
<b>Acute:</b>	None known
<b>Chronic:</b>	None known

## SECTION 12: ECOLOGICAL INFORMATION

N/A

## SECTION 13: DISPOSAL CONSIDERATIONS

Federal and state law regulates disposal of scrap material or dust as solid waste; disposal must be in accordance with federal and state laws. Contact local regulatory agencies for guidance.

## SECTION 14: TRANSPORTATION INFORMATION

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

## SECTION 15: REGULATORY INFORMATION

<b>U.S. TSCA:</b>	All chemicals used in the manufacture of this product are listed on the U.S. Toxic Substances Control Act (TSCA) Inventory
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<b>California Proposition 65:</b>	This product does not contain ingredients known to the State of California to cause cancer, birth defects or other reproductive effects.
<b>SARA Title III – Section 313 Supplier Notification:</b>	This product does not contain chemicals subject to SARA Title III/CERCLA “reportable quantities” (RQs) and/or “threshold planning quantities” (TPQs) and/or are classified as “Toxic Chemicals” under the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and 40 CFR 372.
<b>RCRA Hazardous Waste Code:</b>	Not Available
<b>CERCLA Hazardous Substances:</b>	Not Available
<b>OSHA:</b>	Not Available
<b>WHMIS Classification:</b>	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 (2004)
N/A:	Not Applicable
IARC:	International Agency for Research on Cancer
NTP:	National Toxicology Program
NIOSH:	National institute of Occupational Safety and Health
HEPA:	High-efficiency particulate air

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