



## **MATERIAL SAFETY DATA SHEET**

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

**Product Name:** Flexfit

**Manufacturer:**

Federal-Mogul Corporation  
26555 Northwestern Highway  
Southfield, MI 48033

**MSDS#** BH-037

**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 is a tough, lightweight oversleeve designed to offer maximum protection to cable assemblies, wire harnesses and hoses. Made of braided polyester monofilaments, it increases cut-through strength and abrasion resistance of electrical and thermal insulating surfaces.

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) and may be released from the product by overheating, burning, machining, abrasion, or riveting.

This 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	NA	99.7	None Established	None Established
Inorganic Pigments	NA	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:** Inhalation of dust and vapor may cause moderate respiratory irritation.

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

**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**

Polyester Monofilament

No  
No  
No

Inorganic pigments

No  
No  
No
**Symptoms and Effects of Exposure to Selected Individual Components****Exposure Hazards:** None known**SECTION 4: FIRST AID MEASURES****Inhalation:** Move to fresh air. Seek medical attention.**Eye Contact:** Flush with water to remove particle. If irritation persists, seek medical attention.**Skin Contact:** Wash thoroughly with soap and water. If molten material falls on skin, do not attempt to remove the material from the skin; cool immediately with water. Seek medical attention.**Ingestion:** If significant quantities have been consumed, drink at least two glasses of water and induce vomiting. Seek medical attention.**SECTION 5: FIRE FIGHTING MEASURES**

This product is inherently flame resistant, but may ignite at temperature 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. Sweep up and dispose of according to all federal and state disposal procedures. If dust is generated during machining, abrading or riveting, remove dust by vacuuming or wet-mopping. Vacuums 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. Do not heat to over 200°C for prolonged periods of time. Avoid breathing fumes or particulate at elevated temperatures. Shipping and storage may accumulate dust in shipping containers. Place in an airtight polyethylene bag or remove dust by vacuuming/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. 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, Color and Odor:</b>	Solid, black and odorless

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable at normal temperatures and storage conditions.

**Incompatibility (Materials/Conditions to Avoid):** Strong bases.

**Hazardous Polymerization:** Will not polymerize.

**Decomposition Products:** 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

**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

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

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

#### SECTION 15: REGULATORY INFORMATION

**U.S. TSCA:** All chemicals used in the manufacture of 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/or 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:** Not Available

**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 (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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