



## **MATERIAL SAFETY DATA SHEET**

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

**Product Name:** ReflectSleeve 1430

**Manufacturer:**

Federal-Mogul Corporation  
26555 Northwestern Highway  
Southfield, MI 48033

**MSDS#** BH-152

**24hr Emerg # (Infotrac):** 1-800-535-5053

**International:** 001-352-323-3500

**Non-Emerg #:** 248-354-9844

### **SECTION 2: COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS**

Bentley-Harris ReflectSleeve 1430 is a flexible, aluminized sleeve that provides excellent protection from radiant and reflected heat sources for critical engine and exhaust system components. The unique design offers ease of installation as well as resistance to extreme heat and fluids and mechanical abrasion protection.

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 below may be present in quantities greater than 1% (0.1% for carcinogens) that may be release from the product by overheating, burning, machining, abrasion, or riveting.

This information provides 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>
Thermoplastic Polyester	None Established	<95	None Established	None Established
Polyester Multifilament Yarn	None Established	<95	None Established	None Established
Aluminized Foil	None Established	<5	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 or vapors from heating can cause irritation.

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

**Eye:** Solid or dust particle may cause irritation or corneal injury.

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

**POTENTIAL HEALTH EFFECTS (continued)****Carcinogenicity:**
**COMPONENT**  
**NTP**  
**IARC**  
**OSHA**

Thermoplastic Polyester

No  
No  
No

Polyester Multifilament Yarn

No  
No  
No

Aluminized Foil

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:** Rinse thoroughly with ample amounts of water. Seek medical attention.**Skin Contact:** Wash thoroughly with soap and water. If molten material falls on skin, do not attempt to remove material; cool immediately with water. Seek medical attention.**Ingestion:** Obtain medical help. 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.

## 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

If dust occurs while shipping product, remove 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 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 dust, vapor, or fume exceeding 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.

**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>	256°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):** None known.

**Hazardous Polymerization:** Will not polymerize.

**Decomposition Products:** Avoid exposing to temperatures greater than 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

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