



## **MATERIAL SAFETY DATA SHEET**

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

<b>Product Name:</b> BH – Thermojacket N	<b>Manufacturer:</b> Federal-Mogul Corporation 26555 Northwestern Highway Southfield, MI 48033
<b>MSDS#</b> BH-048	<b>24hr Emerg # (Infotrac):</b> 1-800-535-5053 <b>International:</b> 001-352-323-3500 <b>Non-Emerg #:</b> 248-354-9844

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

Thermojacket N is a flexible, lightweight sleeving designed to protect wires, bundles, harnesses, and hose from high temperatures and abrasion. Braided with Nomex fibers, Thermojacket A has outstanding physical properties such as high temperature tolerance, flame resistance, solvent and tear resistance, and cut-through and abrasion 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.

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.

Ingredient	CAS No.	% Weight	OSHA PEL	ACGIH TLV
Poly (isophthaloyl-chloride-m-phenylenediamine) coating mixture	25765-47-3	99	None Established	None Established

### **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 created from abrasion may cause respiratory irritation.

**Skin:** Dust particles may cause irritation.

**Eye:** Dust particles may cause irritation.

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

**POTENTIAL HEALTH EFFECTS (continued)****Carcinogenicity:**

COMPONENT
NTP
IARC
OSHA

Poly (isophthaloyl-chloride-m-phenylenediamine) coating mixture

No
No
No

**Symptoms and Effects of Exposure to Selected Individual Components****Poly (isophthaloyl-chloride-m-phenylenediamine)**

May cause mild skin, eye, and nasal passage irritation. Inhalation of respirable fibers may cause mild irritation to the upper respiratory tract with discomfort and cough. Chronic exposure to fiber dust may cause permanent lung injury.

**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 with soap and water. Seek medical attention.

**Ingestion:** Not a probable route of entry. Seek medical attention.

**SECTION 5: FIRE FIGHTING MEASURES**

This product is inherently flame resistant. Product dust does not present an explosion hazard. The product can ignite, but burning will stop when the ignition source is removed.

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

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

**Unusual Fire and Explosion Hazards:** None

**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**

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. Local exhaust ventilation should be used when laser-cutting the material.

**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. Loose fitting clothing is recommended to avoid skin irritation.

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

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Boiling Point:</b>	N/A	<b>Vapor Pressure:</b>	N/A
<b>Melting Point:</b>	N/A	<b>Vapor Density (air = 1):</b>	N/A
<b>pH:</b>	N/A	<b>% Volatile:</b>	N/A
<b>Specific Gravity:</b>	1.38	<b>Evaporation Rate:</b>	N/A
<b>Water Solubility:</b>	Insoluble	<b>Form, Color, and Odor:</b>	Solid, olive green, mild

**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:** Thermal decomposition will start at temperatures greater than 572°F, producing such by-products as carbon monoxide, carbon dioxide, oxides on nitrogen, and a small amount of hydrogen cyanide.

**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; 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:** N/A  
**Identification Number:** N/A  
**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:** A PEL has not been established for this 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 (2004)  
 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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