

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Thermojacket A **Manufacturer:**

Federal-Mogul Corporation 26555 Northwestern Highway

Southfield, MI 48033

MSDS# BH-046 **24hr Emerg # (Infotrac): 1-800-535-5053**

International: 001-352-323-3500 Non-Emerg #: 248-354-9844

SECTION 2: COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Thermojacket A is a flexible slip-on sleeving designed to protect wires, bundles, harnesses, and hoses in hostile environments. Braided from aramid fibers, Thermojacket A has outstanding physical properties such as high temperature tolerance, flame resistance, impact and tear resistance, cut-through resistance 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(terephthaloychloride)/ p-phenylenediamine (p-Aramide)	26125-61-1	89	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: Hot material can cause thermal burns.

Eye: Dust particles may cause irritation.

Ingestion: Not a probable route of entry.

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POTENTIAL HEALTH EFFECTS (continued)

Carcinogenicity:

COMPONENT NTP IARC OSHA

Poly(terephthaloychloride)/ p-phenylenediamine (p-Aramide)

No No No

Symptoms and Effects of Exposure to Selected Individual Components

Poly(terephthaloychloride/p-phenylenediamine (p-Aramide)

May cause mild skin, eye, and nasal passage irritation. Overexposure to respirable fibers by inhalation 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: Do not remove the molten material from skin. Rinse with cool 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: Water, chemical foam, dry chemical, carbon dioxide

Unusual Fire and Explosion Hazards: Hazardous decomposition products may be generated in fire

conditions.

Special Fire-Fighting Procedure: Wear self-contained breathing apparatus when extinguishing a

fire.

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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.

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

N/A N/A **Boiling Point:** Vapor Pressure: **Melting Point:** N/A Vapor Density (air = 1): N/A % Volatile: N/A pH: N/A Specific Gravity: 1.44 **Evaporation Rate:** N/A

Water Solubility: Insoluble Form, Color, and Odor: Solid, yellow, no odor

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable at normal temperatures and storage conditions.

Incompatibility None known

(Materials/Conditions to Avoid):

Hazardous Polymerization: Will not polymerize

Decomposition Products: Thermal decomposition will start at temperatures greater than 800°F.

producing such by-products as carbon monoxide, carbon dioxide, nitrogen

oxides, and a small amount of hydrogen cyanide.

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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/AIdentification Number:N/APacking Group:N/AShipping Label:NoneAdditional 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: PELs have not been established for Poly(terephthaloychloride/

p-phenylenediamine (p-Aramide) or the product.

WHMIS Classification: Not Available

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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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This MSDS should not be used as a complete or accurate summary of the content of this product. For specific information on brand names, manufacturers, or quantities, please refer to product specification documents, wherever available.

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