



## MATERIAL SAFETY DATA SHEET

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name:</b> BH – TFE-Coated Pyroseal Gaskets	<b>Manufacturer:</b> Federal-Mogul Corporation 26555 Northwestern Highway Southfield, MI 48033
<b>MSDS#</b> BH-074	<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

BH – TFE-Coated Pyroseal products are uniquely constructed tadpole gaskets designed for industrial and commercial door sealing applications. Primarily braided fiberglass, the products can be used in service temperatures up to 1,000°F. Pyroseal's single construction eliminates problems with fray and material integrity. The gaskets follow curves without bunching and creasing and resist heat aging, hardening, mildew, oxidation, moisture, or solvent damage.

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 (2005)
Continuous filament glass fibers	65997-17-3	69	1 f/cc*	1 f/cc or 5 mg/m <sup>3</sup>
304 Stainless Steel Wire	Various	29	None established	None established
GE SM 2140	Proprietary	0.5	None established	None established
Grafo Hydrograf® (starch-type binder)	Proprietary	0.5	None established	None established
TFE (tetrafluoroethylene, Teflon®)	Proprietary	<1		

\* proposed

### 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 or vapors generated during heating may cause respiratory irritation.

**Skin:** Prolonged contact may cause skin irritation.

**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
Continuous filament glass fibers	No 3 No
TFE	

**Symptoms and Effects of Exposure to Selected Individual Components**

**CONTINUOUS FILAMENT GLASS FIBERS**

**Acute** - May cause irritation to skin, eyes, nose, and throat. May cause skin rash, conjunctivitis, coughing and sneezing.

**Chronic** – Although some studies of fibrous and mineral wool workers have shown a link to lung cancer in humans, those studies have clearly provided evidence of no link between lung cancer and continuous filament fiberglass workers.

**TETRAFLUOROETHYLENE**

Inhalation may cause dizziness or narcosis in high vapor concentrations. If heated, can produce polymer fume fever which is a flu-like symptom. May cause vomiting if ingested. Skin contact will cause reversible redness and defatting of the skin. Long-term exposure may cause lung, liver, or kidney damage.

**SECTION 4: FIRST AID MEASURES**

- Inhalation:** Move to fresh air. If irritation persists, seek medical attention.
- Eye Contact:** Rinse thoroughly with ample amounts of water. If irritation persists, seek medical attention.
- Skin Contact:** Wash exposed area with soap and cool water. Avoid scratching irritated areas. If irritation persists, seek medical attention.
- Ingestion:** Not a probable route of entry.

**SECTION 5: FIRE FIGHTING MEASURES**

This product is non-burning.

**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 known.

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

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

If dust is generated, 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 7: HANDLING AND STORAGE**

Store in a cool, dry place. If dust is generated during shipping, remove dust from 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.

**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. If excessive cutting of this material exists, it is recommended to wear any type of gloves and loose clothing.

**Eyes:**                                      Wear safety glasses or goggles if cutting the material.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Boiling Point:</b>	N/A	<b>Vapor Pressure:</b>	N/A
<b>Melting Point:</b>	Not determined	<b>Vapor Density (air = 1):</b>	N/A
<b>pH:</b>	N/A	<b>% Volatile:</b>	N/A
<b>Specific Gravity:</b>	2.55	<b>Evaporation Rate:</b>	N/A
<b>Water Solubility:</b>	Insoluble	<b>Form, Color, and Odor:</b>	Solid, gray, odorless

**SECTION 10: STABILITY AND REACTIVITY**

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

**Incompatibility (Materials/Conditions to Avoid):** Strong oxidizing agents

**Hazardous Polymerization:** Will not polymerize.

**Decomposition Products:** Thermal decomposition will occur at temperatures above 250°C and may produce oxides of carbon and nitrogen; hydrogen fluoride.

**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

<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.
<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>	OSHA has established a PEL for one of the constituents, but not for the product.
<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 (2005)
f/cc:	Fibers per cubic centimeter of sampled air
mg/m <sup>3</sup> :	Milligrams of contaminant per cubic meter of sampled air, on a weight-to-volume basis.
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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