



MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: Barrier E

November 29, 2005

Vishay Micro-Measurements
Post Office Box 27777
Raleigh, NC 27611

MSDS # MGM101A

919-365-3800

CHEMTREC 1-800-424-9300 (U.S.)
703-527-3887 (Outside U.S.)

NOTE: CHEMTREC numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

NOTE: This MSDS is provided as a courtesy to our customers. This product is not regulated under, and a MSDS is not required for this product by the OSHA Hazard Communication Standard because, when used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards.

CAS NUMBER	CHEMICAL IDENTITY	%
14807-96-6	Talc	30-35
9006-29-6	Polybutylene	20-25
68003-51-0	Aliphatic Hydrocarbon Resin	10-15
9010-85-9	Isobutylene-Isoprene Polymer	5-10
61789-00-2	Rubber, Ethylene-Propene	5-10
9003-27-4	Polyisobutylene	5-10
8052-42-4	Asphalt	5-10
NA	Vinyl Backing	6-8
1333-86-4	Carbon Black	1-5
1344-40-7	Lead Hydroxide Oxide Phosphite	<1.0
1309-64-4	Antimony Trioxide	<1.0

SECTION 3: HEALTH HAZARD DATA**Routes of Entry:**

Inhalation: No **Skin:** No **Ingestion:** No

Health Hazards (Acute and Chronic): None known

Carcinogenicity:

NTP:	No
IARC Monographs:	See Note*
OSHA Regulated:	No

*NOTE: Contains antimony trioxide which is listed by ACGIH as a suspected human carcinogen A2, and by IARC as a possible human carcinogen 2B. Contains carbon black which is listed by IARC as a possible human carcinogen 2B. Contains lead hydroxide oxide phosphite which is listed by IARC as a possible human carcinogen 2B-inorganic lead compounds, by ACGIH as an animal carcinogen A3-inorganic lead compounds. Contains asphalt which is listed by IARC as a possible human carcinogen 2B.

Signs and Symptoms of Exposure:

INHALATION: Health effects from inhalation are not expected unless product is heated.

EYE CONTACT: Eye contact is not expected to occur during normal use of the product.

SKIN CONTACT: No adverse health effects are expected from skin contact.

INGESTION: Ingestion is not a likely route of exposure to this product.

Conditions Generally Aggravated by Exposure: None known.

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

INHALATION: No need for first aid is anticipated.

EYE CONTACT: No need for first aid is anticipated.

SKIN CONTACT: No need for first aid is anticipated.

INGESTION: No need for first aid is anticipated.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NA

Flammable limits: LEL: NA UEL: NA

Extinguishing Media: Carbon dioxide, dry chemical, foam.

Special Firefighting Procedures: Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat, and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

Unusual Fire and Explosion Hazards: None known.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Not applicable.

SECTION 7: EXPOSURE CONTROLS -- PERSONAL PROTECTION

Respiratory Protection: Not applicable.

Ventilation: Not applicable.

Protective Gloves: Not applicable.

Eye Protection: Not applicable.

Other Protective Clothing or Equipment: Not applicable.

Work / Hygienic Practices: Wash hands after handling and before eating.

SECTION 8: HANDLING AND STORAGE

Precautions to be taken in handling and storing: Keep out of reach of children.

Other Precautions: None known.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	NA
Vapor Pressure (mmHg):	NA
Vapor Density (Air = 1):	NA
Specific Gravity (H₂O = 1):	NA
Melting Point:	NA
Evaporation Rate (BuAc = 1):	NA
Volatile Organic Compounds:	0%
Solubility in Water:	Nil

Appearance and Odor: Black roll with release liner.

SECTION 10: STABILITY AND REACTIVITY DATA
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Stability: Stable.

Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): N/A

Hazardous Decomposition or By-products: Carbon monoxide and carbon dioxide, hydrogen chloride, phosgene.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION
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Talc

OSHA PEL:	2 mg/m ³ (respirable)
ACGIH TLV:	2 mg/m ³ (respirable)
OTHER:	0.5 mg/m ³ (Chemical manufacturer's recommended guideline)

Asphalt

OSHA PEL:	None
ACGIH TLV:	0.5 (fume)

Carbon Black

OSHA PEL:	3.5 mg/m ³
ACGIH TLV:	3.5 mg/m ³
OTHER:	0.5 mg/m ³ (Chemical manufacturer's recommended guideline)

SECTION 12: DISPOSAL CONSIDERATIONS
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Waste Disposal Method: Dispose of in accordance with local, state, and federal environmental regulations.

SECTION 13: TRANSPORTATION INFORMATION

SHIPPING NAME

CLASS

UN NUMBER

Not regulated.

SECTION 14: REGULATORY INFORMATION**SECTION 313 SUPPLIER NOTIFICATION:**

This product contains a toxic chemical or chemicals (as listed below) subject to the reporting requirements of Section 313 Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

CAS NUMBER	CHEMICAL NAME	% BY WEIGHT
1344-40-7	Lead Hydroxide Oxide Phosphate	<1.0

TSCA NOTIFICATION:

All components of this product are listed in the Toxic Substance Control Act Chemical Substance Inventory (TSCA).

SECTION 15: OTHER INFORMATION

To the best of our knowledge, the information provided above meets the requirements of the United States Occupational Safety and Health Act and regulations established under 29 CFR 1910.1200 (g)(2)(c)(1)-(4) for a mixture of hazardous chemicals which has not been tested as a whole. The data provided on this Material Safety Data Sheet is from manufacturers of the original components. Vishay Micro-Measurements specifically disclaims any and all form of liability and/or responsibility for the application of this product.