

**Material Safety Data Sheet**

**FIR No.:** 169114  
**Version Number:** US-US-2

**Level:** 1  
**Release Date:** 2009-07-29

**1. Product and Company Identification**

**Product Name:** Brake Pad Kit  
**Product Code:** See Attachment  
**Application:** Brake Friction Material  
**Supplier:** Ford Motor Company  
 Attention: MSDS Information, P.O. Box 1899  
 Dearborn, Michigan 48121  
 1-800-392-3673

**Emergency Telephone:** Poison Control Center: 1-800-959-3673  
 CHEMTREC: U.S. and Canada: 1-800-424-9300  
 CHEMTREC: International: 1-703-527-3887

**2. Composition/Information on Ingredients**

This chemical product is a preparation.

Chemical Name	CAS Number	Percent Concentration	Hazard Classification
GRAPHITE	7782-42-5	>10-30	HAZCOM
ANTIMONY SULFIDE	1345-04-6	>5-10	MOC-ALL HAZCOM SARA 313 WHMIS 1 CAA-HAP
COPPER	7440-50-8	>5-10	WHMIS 1 SARA 313 HAZCOM MOC-ALL
ALUMINA TRIHYDRATE	21645-51-2	1-5	HAZCOM SARA 313 WHMIS 1

**3. Hazards Identification**

**Health:** Skin and eye irritation may occur with repeated contact to dusts. This product is a mixture of chemicals physically bonded together; therefore, in the as supplied state this product is considered non-hazardous. If in the event that dust is generated, some of the ingredients can have the long-term effects. This product may cause an allergic skin reaction. Breathing dust of this material may lead to chronic health effects.

**Environment:** Material contains a chemical which is a Hazardous Air Pollutant (HAP), regulated by the United States Clean Air Act.



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4. First-Aid Measures

Inhalation: If dust from the friction material is inhaled, move to fresh air. Seek medical attention or advice if irritation persists.
Skin Contact: For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.
Eye Contact: If in eyes, flush with water to remove particulate.

5. Fire-Fighting Measures

This material is not combustible.

Extinguishing Media: Water, foam, ABC-powder, or Halon.
Specific Hazards: When heated to very high temperatures, the material may give off smoke and decomposition products which may contain toxic compounds such as sulfur and/or nitrogen oxides.
Protection of Firefighters: Wear self-contained breathing apparatus.

6. Accidental Release Measures

Personal Precautions: Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of fibers/dust and contact with skin and eyes. Dust should be collected by vacuuming with a HEPA-filter equipped vacuum or by wet mopping. Do not use compressed air or dry brushing for cleaning dust.
Environmental Precautions: No available information.
Methods for Cleaning Up: If a release of dust occurs during machining, abrading, or riveting, 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 the workplace.

7. Handling and Storage

Handling:
Technical Measures: Avoid spreading dust.
Precautions and Advice for Safe Handling: Do not breathe dust. Avoid skin and eye contact.

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**Storage: Technical Measures:** Guard against dust accumulation of this material. Shipping and storage may result in accumulation of dust in shipping containers. If this occurs, dispose of the container in an airtight polyethylene bag or 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 storage containers.

**Storage Conditions:** Store this product in a cool, dry, well-ventilated place. Store this product away from strong oxidizing agents. Store in a dry area.

**8. Exposure Controls/Personal Protection**

**Engineering Measures:** Use adequate ventilation to control airborne concentrations below the exposure limits/guidelines. If user operations generate a vapor, dust, and/or mist, use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits/guidelines. Eyewash and emergency showers are recommended.

**Exposure Limits:**

Chemical Name	TWA	References	Notes
COPPER	Note	ACGIH	fume: 0.2 mg/m <sup>3</sup> TWA; dusts and mists, as Cu: 1 mg/m <sup>3</sup> TWA
GRAPHITE	Note	OSHA ACGIH	all forms except graphpite fibers, respirable dust: 2 mg/m <sup>3</sup> TWA
	Note	OSHA	Total dust 15 mg/m <sup>3</sup> ; Respirable fraction 5 mg/m <sup>3</sup>

**Personal Protective Equipment:**

**Respiratory Protection:** Use a HEPA dust particulate filter respirator for concentrations exceeding the Occupational Exposure Limit.

**Hand Protection:** Use appropriate hand protection.

**Eye Protection:** Wear safety glasses.

**Skin and Body Protection:** Light protective clothing is recommended.

**Hygiene Measures:** Wash thoroughly after handling.



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**9. Physical and Chemical Properties**

**Specific Gravity:** 2  
**Physical State:** SOLID  
**Odor:** NOT CHARACTERISTIC  
**Color:** GRAY  
**pH:** N.AP  
**Temperature Range During which Changes in Physical State Occur:**  
     Boiling Point: N.AP  
     Melting Point: ND  
**Flash Point:** N.AP  
**Explosion Properties:**  
     UEL: N.AP  
     LEL: N.AP  
**Vapor Pressure:** N.AP  
**Vapor Density:** N.AP  
**Solubility:** INSOLUBLE  
**Viscosity:** N.AP  
**Evaporation Rate:** N.AP

**10. Stability and Reactivity**

**Stability:** This is a stable material.  
**Hazardous Decomposition Products:** Decomposition of this product may yield metallic oxides.  
 Decomposition of this product may yield oxides of sulfur and nitrogen.

**11. Toxicological Information**

**Inhalation:** This product contains one or more non-asbestos fibers or other man-made fibers. Although relatively little is known about the long term health effects from exposure to dust from friction materials, studies of respirable fibers, which are physically similar to asbestos, suggest the potential for chronic lung disease, including fibrosis, with overexposure.  
**Skin Contact:** May cause allergic skin reaction.

**12. Ecological Information**

Ecological testing has not been conducted on this product.



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**13. Disposal Considerations**

**Waste from Residues:** Dispose of the material in an approved industrial waste landfill according to federal, state, and local regulations.

**Contaminated Packaging:** No available information.



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**14. Transport Information**

**U.S. Department of Transportation (DOT) 49 - CFR 172.101**

This product is not regulated as a dangerous good.

**Canadian Transportation of Dangerous Goods (T.D.G.) - TDGR Schedule II**

This product is not regulated as a dangerous good.

**Secretary of Communication and Transportation (SCT) - NOM-002-SCT2/1994 (Mexico)**

This product is not regulated as a dangerous good.

**International and Domestic Air Transportation - ICAO & IATA Section 4.2**

This product is not regulated as a dangerous good.

**International Water Transportation - IMDG Code Amendment 31-02**

This product is not regulated as a dangerous good.

**15. Regulatory Information**

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

This product contains an ingredient(s) considered to be a special hazardous substance by the Commonwealth of Massachusetts (Massachusetts Right to Know Law).

This product contains an ingredients(s) considered to be a hazardous substance(s) by the State of New Jersey.

This product contains an ingredient(s) considered to be a hazardous substance by the State of Pennsylvania (Pennsylvania Worker and Community Right to Know Act).

**16. Other Information**

Key/Legend: N.AP = Not applicable; N.AV = Not available; ND = Not determined or No data; TLV = Threshold limit value; TWA = Time-weighted average; STEL = Short-term exposure limit; C = Ceiling limit

**Preparation Information:**

The chemical identification and properties for this material were provided by the manufacturer. For Canadian locations, a manufacture's MSDS is available upon request. Health and safety information has been evaluated by the Occupational and Environmental Health Sciences Department, Ford Motor Company, Diagnostic Service Center II, 1800 Fairlane Drive, Allen Park, MI 48101, USA.



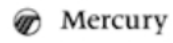
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**Disclaimer:**

The information on this data sheet represents our current data and is accurate to the best of our knowledge as to the proper handling of this product under normal conditions and in accordance with the application specified on the packaging and/or technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.



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**Attachment**

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<b>Product Code</b>	<b>Container Size</b>	<b>Part of Kit</b>	<b>Kit Product Code</b>
3W7Z-2001-BA	4 pads		

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