



Material Safety Data Sheet

FIR No.: 155500
Version Number: CA-EN-3

Level: 1
Release Date: 2009-06-29

1. Product and Company Identification

Product Name: Brake Pads
Product Code: See Attachment
Application: Brake Friction Material
Supplier: Ford Motor Company of Canada
 Oakville, Ontario L6J 5E4
 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
BARIUM SULFATE	7727-43-7	>5-10	HAZCOM SARA 313 MOC-ALL
MAGNESIUM OXIDE	1309-48-4	1-5	HAZCOM WHMIS 1

3. Hazards Identification

Health: Dust from dried material may cause eye, skin and respiratory tract irritation.
 This product may cause an allergic skin reaction.
 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.
 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.

4. First-Aid Measures

Inhalation: If dust from the friction material is inhaled, move affected person 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.



Material Safety Data Sheet

FIR No.: 155500
Version Number: CA-EN-3

Level: 1
Release Date: 2009-06-29

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.

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.



Material Safety Data Sheet

FIR No.: 155500
Version Number: CA-EN-3

Level: 1
Release Date: 2009-06-29

8. Exposure Controls/Personal Protection

Engineering Measures:

ENGINEERING CONTROL: 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
MAGNESIUM OXIDE	10(mg/m3)	ACGIH	
BARIUM SULFATE	10(mg/m3)	ACGIH	
GRAPHITE	Note	ACGIH	all forms except graphpite fibers, respirable dust: 2 mg/m3 TWA

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.

Material Safety Data Sheet

FIR No.: 155500
Version Number: CA-EN-3

Level: 1
Release Date: 2009-06-29

9. Physical and Chemical Properties

Specific Gravity: 2.65-3.7
Physical State: SOLID
Odor: PHENOLIC
Color: GRAY
pH: N.AP
Temperature Range During which Changes in Physical State Occur:
 Boiling Point: N.AP
 Melting Point: N.AV
Flash Point: N.AP
Auto-ignition Temperature: >+600 °C
Explosion Properties:
 UEL: N.AP
 LEL: N.AP
Vapor Pressure: N.AP
Vapor Density: N.AP
Solubility: INSOLUBLE IN WATER
Evaporation Rate: N.AP

10. Stability and Reactivity

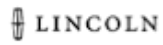
Stability: This is a stable material.
Hazardous Decomposition Products: Decomposition of this product may yield metallic oxides.
 Decomposition of this product may yield oxides of sulfur and nitrogen.

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.



Material Safety Data Sheet

FIR No.: 155500
Version Number: CA-EN-3

Level: 1
Release Date: 2009-06-29

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.



Material Safety Data Sheet

FIR No.: 155500
Version Number: CA-EN-3

Level: 1
Release Date: 2009-06-29

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 has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

This product contains ingredients present on the WHMIS (1.0%) Ingredient Disclosure List.

Not a controlled product.

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.

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.



Material Safety Data Sheet

FIR No.: 155500
Version Number: CA-EN-3

Level: 1
Release Date: 2009-06-29

Attachment

Product Code	Container Size	Part of Kit	Kit Product Code
BR-1	4 pads		
BR-10B	4 pads		
BR-106	4 pads		
BR-107B	4 pads		
BR-11B	4 pads		
BR-1270	4 pads		
BR-1274	4 pads		
BR-13B	4 pads		
BR-14B	4 pads		
BR-1400	4 pads		
BR-16B	4 pads		
BR-17B	4 pads		
BR-18B	4 pads		
BR-19	4 pads		
BR-2	4 pads		
BR-20B	4 pads		
BR-22	4 pads		
BR-23B	4 pads		
BR-24B	4 pads		
BR-27	4 pads		
BR-31	4 pads		
BR-39B	4 pads		
BR-4B	4 pads		
BR-40B	4 pads		
BR-47B	4 pads		
BR-5B	4 pads		
BR-54	4 pads		
BR-57B	4 pads		
BR-6B	4 pads		
BR-7B	4 pads		
BR-8B	4 pads		
BR-9	4 pads		
XU2Z-2V001-ABA	4 pads		
XU2Z-2V001-ANA	4 pads		
XU2Z-2V001-FA	4 pads		
XU2Z-2V001-SA	4 pads		
XU2Z-2V001-VA	4 pads		
XU2Z-2V200-AA	4 pads		
XU2Z-2V200-RA	4 pads		
XU2Z-2V200-SA	4 pads		



Material Safety Data Sheet

FIR No.: 155500
Version Number: CA-EN-3

Level: 1
Release Date: 2009-06-29

YU2Z-2V001-AA	4 pads
YU2Z-2V001-FA	4 pads
YU2Z-2V001-KA	4 pads
1U2Z-2V001-MA	4 pads
1U2Z-2V001-NA	4 pads
1U2Z-2V001-PA	4 pads
1U2Z-2V001-RA	4 pads
1U2Z-2V001-SA	4 pads
1U2Z-2V001-TA	4 pads
1U2Z-2V200-TA	4 pads
1U2Z-2V200-UA	4 pads
2U2Z-2V001-AA	4 pads
2U2Z-2V001-BA	4 pads
2U2Z-2V001-CA	4 pads
2U2Z-2V001-DA	4 pads
2U2Z-2V001-EA	4 pads
2U2Z-2V001-FA	4 pads
2U2Z-2V001-GA	4 pads
2U2Z-2V001-HA	4 pads
2U2Z-2V001-JA	4 pads
2U2Z-2V001-KA	4 pads
2U2Z-2V001-LA	4 pads
2U2Z-2V001-SA	4 pads
2U2Z-2V200-BB	4 pads