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MATERIAL SAFETY DATA SHEET

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EFFECTIVE DATE: December 20, 2001 Code: Brake Lining Material

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PRODUCT NAME: Asbestos Free Brake Shoe Lining Material

IDENTIFY BY EDGE CODE: AE-482-EE,AE-766-FE, AE-785-FF, AE-475-FE,
 AE-495-EE,AE-767-FF, TS-275-FF, TS-277-FE,
 SSS-376-FF, SSS-177-FF, TS-288-EF, SSS-387-FF,
 SD-588-EE, TS-293-FE, TS-296-EE, SSS-198-FE,
 SSS-391-FF

MANUFACTURER'S NAME:

Brake Parts, Inc.
 4400 Prime Parkway
 McHenry, IL 60050

EMERGENCY TELEPHONE NUMBER:

1-815-363-9000

SUPPLIER'S NAME:

Rayloc
 Division Of Genuine Parts Company
 3100 Windy Hill Road
 Atlanta, GA 30339

REVISION DATE:

Nov. 1, 2012

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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HAZARDOUS
 COMPONENT

CAS NO.

EXPOSURE LIMITS

HAZARDOUS COMPONENT	CAS NO.	EXPOSURE LIMITS
Cured Organic Resins Mixture		None Established
Barium Sulfate	7727-43-7	5 mg/m3 PEL-TWA(respirable dust) 10 mg/m3 TLV-TWA (total dust)
Graphite	7782-42-5	5 mg/m3 PEL-TWA(respirable dust) 2 mg/m3 TLV-TWA (total dust)
Aluminum Oxide	1344-28-1	5 mg/m3 PEL-TWA(respirable dust) 10 mg/m3 TLV-TWA (total dust)
Iron	7439-89-6	10 mg/m3 PEL-TWA (as iron oxide) 5 mg/m3 TLV-TWA (as iron oxide)
Mineral Wool Fiber	65997-17-3	1 f/cc TLV-TWA
Cystalline Silica (quartz)	14808-60-7	10 mg / m3 (respirable) PEL-TWA % SiO2 + 2

0.1 mg/m³ (respirable) TLV-TWA

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value;
TWA - Time Weighted Average

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SECTION 3: HAZARDS IDENTIFICATION
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EMERGENCY OVERVIEW:

Drum brake lining products are not considered hazardous products. They will not support combustion but may release irritation and potentially toxic combustion products under fire conditions. Breathing dust generated during sanding or grinding may cause respiratory irritation. Prolonged overexposure may result in lung disease or damage. These products contain a small amount of crystalline silica. Prolonged overexposure to respirable crystalline silica may cause lung disease (silicosis) and increase the risk of lung cancer. Risk of cancer depends on duration and level of exposure. The hazardous components in this product are bound in a resin matrix and are not released during normal handling in finished form.

ACUTE HEALTH EFFECTS:

EYE CONTACT: Dust from product may cause abrasive irritation.

SKIN CONTACT: Prolonged contact with dust from product may cause irritation.

INHALATION: Inhalation of excessive concentrations of dust may cause mucus membrane and respiratory irritation.

INGESTION: Not a potential route of exposure.

CHRONIC HEALTH EFFECTS:

Inhalation of excessive concentrations of any dust from this material, may cause lung injury. This product contains a small amount of crystalline silica. Prolonged overexposure to respirable crystalline silica may cause silicosis, a progressive, disabling, fatal lung disease. Symptoms of silicosis include cough, shortness of breath, wheezing and reduced pulmonary function. Breathing silica may not cause noticeable injury or illness even though permanent lung damage is occurring.

CARCINOGENICITY: The National Toxicology Program (NTP) has classified respirable crystalline silica as reasonably anticipated to be a carcinogen. The International Agency for Research on Cancer (IARC) has classified respirable crystalline silica as a group 1 carcinogen

(carcinogenic to humans). IARC has classified man made vitreous fibers (including mineral wool fibers) as group 2B carcinogens (sufficient evidence in humans).

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Persons with pre-existing skin and respiratory disorders may be at an increased risk from exposure.

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SECTION 4: FIRST AID PROCEDURES
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EYES:

Do not rub eyes. Flush with water to remove particulate. Obtain medical attention.

SKIN:

Wash area of contact gently with soap and water. Launder contaminated clothing before reuse. Get medical attention if irritation persists.

INHALATION:

If symptoms develop, remove person from source of exposure to fresh air. Get medical attention if irritation persists.

INGESTION:

Not a potential route of exposure.

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SECTION 5: FIREFIGHTING MEASURES
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Flashpoint: Not Applicable Autoignition Temperature: Not Applicable

Lower Flammability Limit: Not Applicable

Upper Flammability Limit: Not Applicable

Extinguishing Mode: Use any media suitable for the surrounding fire.

Special Fire Fighting Procedures: Avoid breathing combustion products if product is involved in a fire.

Unusual Fire and Explosion Hazards: The organic resins may burn at high temperatures, however, this material will not support combustion.

Combustion Products: Combustion Products from organic resins may include carbon monoxide, carbon dioxide, nitrogen oxides, sulfur dioxide, aldehydes, phenols, cyanide, ammonia and various hydrocarbons.

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SECTION 6: ACCIDENTAL RELEASE MEASURES
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Pick up large pieces. Use HEPA vacuum to clean up any dust. Wet dust with water where sweeping is necessary. Personal safety and exposure recommendations described elsewhere in this data sheet apply to exposure during clean up of spilled material. Refer to Section 13 for disposal considerations. Refer to Section 15 for Release Reporting information, if applicable.
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SECTION 7: HANDLING AND STORAGE
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HANDLING:

Avoid generating and breathing dust. Do not grind, sand, drill or machine these parts. Follow good housekeeping to prevent accumulation of dust on floors, machinery and equipment. Do not dry sweep dust. Wet dust with water before sweeping or use a HEPA vacuum to collect dust and clean equipment. Do not use compressed air for cleaning. Wash thoroughly after work using soap and water.

These products do not contain asbestos, however, the OSHA Asbestos Standard (29CFR 1910.1001) Appendix F, "Work Practices and Engineering Controls for Automotive Brake and Clutch Inspection, Disassembly, Repair and Assembly", contains guidance on minimizing employee exposure during brake operations. Brake Parts, Inc. recommends that these work practices and engineering controls be implemented even when working with non-asbestos brakes.

STORAGE: Keep product dry.

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SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION
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ENGINEERING CONTROLS:

Use with adequate local exhaust ventilation and dust collection as necessary to maintain the concentration of airborne dust below the exposure limits.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYE PROTECTION: Safety glasses recommended.

SKIN PROTECTION: Gloves recommended for handling brake pads.

RESPIRATORY PROTECTION:

If the concentrations exceed the Threshold Limit Values (TLV), a NIOSH approved particulated respirator appropriate for the exposure levels should be worn. Select based on consideration of the airborne workplace concentrations and duration of exposure. Select and use respirators in accordance with 29 CFR 1910.134, ANSI Z88.2, the NIOSH Respirator Decision Logic and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

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U.S. DEPARTMENT OF TRANSPORTATION (DOT): Not regulated as a Hazardous Material.

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SECTION 15: REGULATORY INFORMATION

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U.S. REGULATIONS

COMPREHENSIVE ENVIRONMENTAL RESPONSE and LIABILITY ACT OF 1980 (CERCLA)
REPORTABLE QUANTITY:

This product is not subject fo CERCLA reporting requirements, however, many states have more stringent release reporting requirments. Report spills required under federal, state and local regulations.

TOXIC SUBSTANCES CONTROL ACT (TSCA): Manufactured articles are not subject to TSCA. These productus are manufactured with chemicals listed on the TSCA inventory.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT(SARA) TITLE III INFORMATION:

SARA Section 311/312 Hazard Catagories: Delayed health

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313: NONE

CALIFORNIA PROPOSITION 65:

This product contains the following chemicals known to the State of California to cause cancer or reproductionve harm: NONE

INTERNATIONAL REGULATIONS:

CANADIAN ENVIORNMENTAL PROTECTION ACT: Manufactured articles are exempt from notification requirements under CEPA.

CANADIAN WHMIS CLASSIFICATION: Manufactured articles are not subject to WHMIS.

EUROPEAN INVENTORY OF COMMERCIAL LABELING CLASSIFICATION:

Not Applicable

EUROPEAN COMMUNITY LABELING CLASSIFICATION: None Applicable

EUROPEAN COMMUNITY RISK AND SAFETY PHRASES: None

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SECTION 16: OTHER INFORMATION

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NFPA RATINGS:

Health: 1 Flammability: 0 Reactivity: 0

HMIS RATINGS:

Health: 1* Flammability: 0 Reactivity: 0

Revision Indicator: New Format

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