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MATERIAL SAFETY DATA SHEET

Effective Date: November 18, 2001

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Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: Asbestos Free Metallic Disc Brake Lining Material

CODE: BRAKE LINING MATERIAL

IDENTIFY BY EDGE CODES: AE-15-EE, AE-42-FF, AE-57-EE, ND-21-FE, ND-29-FF,
ND-26-EE, ND-27-EE, ND-40-EE, ND-71-FF, SD-25-EE,
SD-69-EE, SD-70-FF, SD-72-FF, TS-32-EE, TS-35-FF,
TS-36-FF, TS-38-EE, TS-304-EE

MANUFACTURER'S NAME:

Brake Parts Inc.
4400 Prime Parkway
McHenry, IL 60050

EMERGENCY TELEPHONE NO.

(815)363-9000

MISCELLANEOUS INFORMATION:

SUPPLIER'S NAME:

Rayloc
Division of Genuine Parts Company
3100 Windy Hill Road
Atlanta, Georgia 30339

REVISION DATE:

11/01/12

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Section 2 - HAZARDOUS INGREDIENTS

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		-----EXPOSURE LIMITS-----	
CAS NO.	INGREDIENT	ACGIH TLV	OSHA PEL

Mixture	Cured Organic Resins	N/A	N/A
7727-43-7	Barium Sulfate	10 mg/m3 TD	5 mg/m3 RD
7782-42-5	Graphite	2 mg/m3 RD	5 mg/m3 RD
7439-89-6	Iron	5 mg/m3 IO	10 mg/m3 IO
1317-65-3	Calcium Carbonate	10 mg/m3 TD	5 mg/m3 RD
14808-60-7	Crystalline Silica (quartz)	0.1 mg/m3 RD	10/mg/m3 / % SiO2 + 2 RD
*TD=Total Dust		*RD=Respirable Dust	
*ID=Inhalable Dust		*IO=Iron Oxide	

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Section 3 - HAZARDS IDENTIFICATION

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EMERGENCY OVERVIEW:

Disc Brake Pads are not considered hazardous products. They will

not support combustion but may release irritating and potentially toxic combustion products under fire conditions. Breathing dust generated during sanding or grinding may cause respiratory irritation. Prolonged exposure may result in lung disease or damage. These products contain a small amount of crystalline silica. Prolonged exposure 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 mucous membrane and respiratory irritation.

INGESTION: Not a potential route of exposure

CHRONIC HEALTH EFFECTS: Inhalation of excessive concentrations of any dust, including dust from this material, may cause lung injury. This product contains a small amount of crystalline silica. Prolonged everexposure 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 dust 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).

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 MEASURES
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INHALATION: If symptoms develop, remove to fresh air. If irritation persists, call a physician.

SKIN CONTACT: Remove contaminated clothing and launder before reuse. Wash affected area with plenty of soap and water.

EYE CONTACT: Do not rub eyes. Flush with plenty of water for at least five minutes (hold eyelids open). Longer if there is indication of residual material in eye.

INGESTION: Not a potential route of exposure

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Section 5 - FIREFIGHTING MEASURES
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LOWER FLAMMABILITY LIMIT: N/A
UPPER FLAMMABILITY LIMIT: N/A

FLASH POINT: N/A
AUTOIGNITION TEMPERATURE: N/A

EXTINGUISHING MEDIA: Use any media suitable for the surrounding fire

SPECIAL FIREFIGHTING 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.

Section 6 - ENVIRONMENTAL RELEASE MEASURES

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.

Section 7 - HANDLING AND STORAGE

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.

For storage, keep product dry.

Section 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

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 are recommended for handling brake parts

RESPIRATORY PROTECTION

If the concentrations exceed the Threshold Limit Values (TLV), a NIOSH approved particulate 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.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: N/A

Melting Point: N/A

Vapor Density: N/A

Vapor pressure: N/A

Evaporation Rate: N/A

Solubility in Water: Insoluble

% Volatile: N/A

Specific Gravity: 2.2 - 3.55 g/cc

pH: N/A

Octanol/Water Partition Coefficient: N/A

Odor/Appearance: Metallic parts with gray friction material

Section 10 - STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBILITY: None determined

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

Section 11 - TOXICOLOGICAL INFORMATION

No acute toxicity data is available for this product or its components.

Section 12 - ECOLOGICAL INFORMATION

No ecotoxicity data is available. This product is not anticipated to have an adverse effect on the environment.

Section 13 - DISPOSAL CONSIDERATIONS

Landfill in compliance with all applicable Federal, state and local regulations.

Section 14 - TRANSPORT INFORMATION

U.S. Department of Transportation (DOT): Not regulated as a hazardous material.

Section 15 - REGULATORY INFORMATION

U.S REGULATIONS:

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA)
Reportable Quantity: This product is not subject to CERCLA reporting requirements, however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Toxic Substances Control Act (TSCA): Manufactured articles are not subject to TSCA. These products are manufactured with chemicals listed on the TSCA inventory.

Superfund Amendments and Reauthorization Act (SARA) Title III Information:
SARA Section 311/312 Hazard Categories: 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 reproductive harm: None

INTERNATIONAL REGULATIONS:

Canadian Environmental Protection Act:
Manufactured articles are exempt from notification requirements under CEPA.

Canadian WHIMIS Classification:
Manufactured articles are not subject to WHMIS.

European Inventory of Commercial Chemical Substances:
Manufactured articles are exempt from notification requirements.

European Community Labeling Classification: N/A

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

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