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MATERIAL SAFETY DATA SHEET

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Effective Date: November 20, 1992 Code:Asbestos Free Disc Brake Materials

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Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: Asbestos Free Disc Brake Material

Identity Friction Material: ZAF-75-FF/ZAF-76-FF,TS3120FF,TS3125FF,
SS3110FF,SS3105FF

MANUFACTURER'S NAME:
BrakePro, Inc.
101 Friction Drive
Cartersville, Georgia 30120

EMERGENCY TELEPHONE NO.
(770)387-0100

MISCELLANEOUS INFORMATION:
(770)387-0100

SUPPLIER'S NAME:
Rayloc
Division of Genuine Parts Company
3100 Windy Hill Road
Atlanta, Georgia 30339

REVISION DATE:
Nov. 1, 2012

Section 2 - HAZARDOUS INGREDIENTS

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CAS NO.	INGREDIENT	-----EXPOSURE LIMITS-----				
		% BY WT.	ACGIH TLV	OSHA PEL	UNITS	VP MM HG
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	Phenolic Resin					
	-Phenol**	*	5 ppm	5 ppm (skin notation)		
	-Formaldehyde**	*	0.3 ppm(A)	0.75 ppm (primary irritant)		
	-Ammonia**	*	50 ppm	25 ppm (primary irritant)		
	-Calcium Hydroxide	*	15mg/m3(B)	5mg/m3		
	Mineral Fibers/Fibrous Pulp	*	15mg/m3(B)	10mg/m3(B) (total dust)(C)		
	Mineral Oil	*	5mg/m3	5mg/m3 (mist)		
	Carbon Black	*	3.5mg/m3	3.5mg/m3 (total dust)		
	Coal (less than 5%Sio2)	*	2.4mg/m3 (%Sio2	plus 2) 2mg/m3 (resp. dust)		
	Coke	*	15mg/m3(B)	10mg/m3(B) (total dust)		
	Graphite	*	15mg/m3	2mg/m3 (resp. dust)		
	Transition Metal Oxides	*	1mg/m3	0.5mg/m3 (D)		
	Aluminum Oxide	*	15mg/m3(B)	10mg/m3		
	Calcium Carbonate	*	15mg/m3	10mg/m3 (total dust)(C)		

Mica	*	20 mppcf	3mg/m3 (resp. dust)
Crumb Rubber	*	15mg/m3(B)	10mg/m3(B) (total dust) (C)
Ferrous Metal Powders/Fibers*		15mg/m3(B)	10mg/m3(B) (total dust) (C)
Fibrous Glass	*	15mg/m3(B)	10mg/m3 (total dust) (C)

* The exact percentage of ingredients in this product is proprietary information. Only components which may be health hazards as identified in 29 CFR 1910.1200 are listed above. Information necessary for emergency health or hazard health investigations will be released to medical or health and safety personnel under signed confidentiality agreements.

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Section 2 - HAZARDOUS INGREDIENTS (cont.)

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** Phenolic resin system in this product is fully cured. Only trace amounts of these materials may be present.

(A) The ACGIH lists formaldehyde as a suspect human carcinogen.

(B) As particulates not otherwise regulated.

(C) Respirable dust exposure limits for these components are 5mg/m3.

(D) May contain trace amount of hexavalent chromium, a human carcinogen.

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Section 3 - HAZARDS IDENTIFICATION

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-Signs and Symptoms of Exposure
None during normal industrial use.

-Routes of Entry
Inhalation: Yes Skin: No Ingestion: Unlikely

-Health Hazards (Acute and Chronic)
None during normal industrial use. Exposure to nuisance dusts may occur during dry grinding.

-Carcinogenicity
NTP: No IARC Monographs: No OSHA Regulated: No

-Medical Conditions generally aggravated by exposure
None during normal industrial use.

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Section 4 - FIRST AID MEASURES

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-Emergency and First Aid Procedures

Eye Contact: Immediately flush eyes with water for 15 minutes. If irritation persists, consult a physician.

Skin Contact: No known hazard during normal industrial use.

Inhalation: In case of irritation, remove to fresh air.

Ingestion: No known hazard during normal industrial use.

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Section 5 - FIREFIGHTING MEASURES
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Flash Point: N/A

LEL: N/A

UEL: N/A

Flammability: N/A

Extinguishing Media: ABC Dry Chemical as appropriate for surrounding fire.

Special Firefighting Precautions: Suggested respiratory protection:
Positive pressure, self-contained
breathing apparatus approved by
NIOSH/MSHA

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Section 5 - FIREFIGHTING MEASURES (cont.)
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Unusual Fire & Explosion Hazards: This material may produce irritating
smoke in smoldering fire

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Section 6 - ENVIRONMENTAL RELEASE MEASURES
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-Steps to be taken in case material is released or spilled

Material is a solid. Sweep (scoop) up and remove to a solid waste
disposal area.

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Section 7 - HANDLING AND STORAGE
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-Precautions to be Taken in Handling and Storage

Segregate stored material from oils and strong oxidizing agents. Keep
away from electrical discharges, welding, open flames, extreme heat,
and other sources of potential ignition.

-Other Precautions
No special DOT classification

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Section 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION
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Respiratory Protection: None required during normal industrial use.
Respiratory protection suitable for the measured
nuisance dust level encountered is recommended
during dry grinding. Minimally, a NIOSH approved
dust mask should be worn during dry grinding.

Ventilation: Local Exhaust - None during normal industrial use.
Recommended during dry grinding.

Mechanical (general) - None during normal industrial use.
May be required during dry grinding.

Special - None during normal industrial use.

Other - None during normal industrial use.

Protective Gloves: None during normal industrial use.

Eye Protection: None during normal industrial use. Goggles or safety
glasses with side shields are recommended during dry
grinding.

Other Protective Clothing or Equipment: None during normal industrial use.

Work/Hygienic Practices: Standard hygienic practices during normal
industrial use.

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Section 9 - PHYSICAL AND CHEMICAL PROPERTIES
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Boiling Point/Melting Point: N/A	Specific Gravity (H ₂ O=1): 1.9-2.5
Vapor Pressure (mmHg): Very low	
Vapor Density (air=1): N/A	Evaporation Rate: N/A (butyl acetate=1)

Solubility in Water: Insoluble
Appearance and Odor: Greenish gray solid. No odor.

-NFP Chemical Hazard Rating

Health = 1 (slight) Fire = 1 (slight) Reactivity = 1 (slight)

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Section 10 - STABILITY AND REACTIVITY
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Stability: Stable

Conditions to Avoid: No known hazard during normal industrial use.
Avoid temperatures greater than 800 degrees F.

Incompatibility (materials to avoid): Strong acids and other
oxidizing agents

-Hazardous Decomposition or By Products

Normal combustion products: carbon monoxide, carbon dioxide, and soot

Product specific combustion products: ammonia, oxides of nitrogen,
phenols, and aldehydes

Hazardous Polymerization: Will not occur.

Conditions to Avoid: N/A

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Section 11 - TOXICOLOGICAL INFORMATION
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Information Not Available

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Section 12 - ECOLOGICAL INFORMATION
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Information Not Available

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Section 13 - DISPOSAL CONSIDERATIONS
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-Waste Disposal Method

Dispose according to applicable federal, state and local regulations.

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Section 14 - TRANSPORT INFORMATION
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Information Not Available

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Section 15 - REGULATORY INFORMATION

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-California (Proposition 65) Information

This product, as sold, is not believed to contain any chemical known to the state of California to cause cancer, birth defects, or other reproductive "harm".

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Section 16 - OTHER INFORMATION

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-SARA Title III Information

This product may contain phenolk, formaldehyde, ammonia, and aluminum oxide (fibrous forms) and therefore, may be subject to the reporting requirements of Section 313, Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372 if present or used in sufficient quantities.

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