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MATERIAL SAFE DATA SHEET

EFFECTIVE DATE: 01/01/93 CODE: LPB Brake Lining Material

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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: LPB Brake Lining Material

IDENTIFY BY EDGE CODES: TS-5611-FE, TS-5732-FE, BR-5858-FE, BR-5922-FE  
SS-5677-FE, SS-5744-EE

|                                |                             |
|--------------------------------|-----------------------------|
| MANUFACTURER'S NAME:           | Emergency Telephone Number: |
| Leiling Gold Phoenix           | (534) 6221-385              |
| Auto Parts CO., LTD.           |                             |
| NO. 84 North Zaocheng Ave.     |                             |
| Leling City, Shandong Province | Miscellaneous Information:  |
| P.R. China 253600              | (534) 6261-919              |

SUPPLIER'S NAME:

Rayloc

Division of Genuine Parts Company

600 Rayloc Drive, S.W.

Atlanta, GA 30336

REVISION DATE:

03/20/02

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SECTION 2: HAZARDOUS INGREDIENTS

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| INGREDIENTS                                            | EXPOSURE LIMITS |                            |
|--------------------------------------------------------|-----------------|----------------------------|
|                                                        | ACGIH<br>TLV    | OSHA<br>PEL                |
| -----                                                  |                 |                            |
| Binder System Component (cured) may contain traces of: |                 |                            |
| Cashew Plant Derivatives                               | None            | None (skin irritant)       |
| Hexamethylenetetramine<br>(or other hardener)          | None            | None                       |
| Phenolic Resin System                                  |                 |                            |
| Phenol                                                 | 5ppm            | 5ppm (skin notation)       |
| Formaldehyde                                           | 0.1 ppm         | 0.25ppm (primary irritant) |
| Reinforcement and Filler Component                     |                 |                            |
| Amorphous Silicates                                    | 8mg/m3          | (64mg/m3) / %SiO2          |
| Acrylic, Aramid Fibers and<br>Fibrous Pulp             | 8mg/m3          | 12mg/m3 (B)(total dust)(c) |
| Carbon Black                                           | 0               | 0 (total dust)             |

|                                                                                                       |                                      |                                                 |
|-------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------|
| Coal (less than 5% SiO <sub>2</sub> )                                                                 | 0.5mg/m <sup>3</sup><br>(total dust) | 0.6mg/m <sup>3</sup> (%SiO <sub>2</sub> plus 2) |
| Coke                                                                                                  | 8mg/m <sup>3</sup>                   | 12mg/m <sup>3</sup> (B)(total dust)(C)          |
| Graphite                                                                                              | 2mg/m <sup>3</sup>                   | 15mg/m <sup>3</sup> (resp. dust)                |
| Metals, Metallic Alloys, and<br>their oxides (Iron, Zinc,<br>Aluminum, Magnesium, Calcium,<br>Copper) | 10 mg/m <sup>5</sup>                 | 15mg/m <sup>3</sup> (total dust)                |
| Nonasbestiform Talc                                                                                   | 0                                    | 0 (resp. dust)                                  |

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

A. The ACGIH lists formaldehyde as a suspect human carcinogen

B. As particularities not otherwise regulated

C. Respirable dust exposure limits for these components are 5mg/m<sup>3</sup>

### SECTION 3: HAZARDS IDENTIFICATION

#### HEALTH HAZARDS (ACUTE AND CHRONIC):

Skin contact with product may cause an allergic skin reaction similar to poison ivy in extremely sensitive individuals. Prolonged or repeated skin contact may cause irritation.

#### SIGN AND SYMPTOMS OF EXPOSURE:

None during normal industrial use

#### MEDICAL CONDITIONS:

None during normal industrial use. Persons with pre-existing skin disorders may be more susceptible to irritation from skin contact.

#### ROUTES OF ENTRY:

INHALATION: Yes SKIN: Yes INGESTION: Unlikely

Note: Dry grinding of the cured or partially cured material may produce an inhalation hazard as a nuisance dust.

#### CARCINOGENICITY:

NTP: Not Known OSHA REGULATED: No IARC MONOGRAPHS: No

### SECTION 4: FIRST AID MEASURES

#### EMERGENCY AND FIRST AID PROCEDURES:

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

Skin Contact: In case of irritation, wash with soap and water. Treat as for poison ivy.  
Inhalation: In case of irritation, remove to fresh air.  
Ingestion: No known hazard during normal industrial use. First aid not applicable.

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#### SECTION 5: FIREFIGHTING MEASURES

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FLASH POINT: Not Available                      FLAMMABLE LIMITS: Not Available  
LEL: Not Available                                  UEL: Not Available

EXTINGUISHING MEDIA:  
Water (Class A, B, C)

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
This material may produce irritating smoke in smoldering fire.

SPECIAL FIREFIGHTING PROCEDURES:  
Suggested respiratory protection:  
Positive pressure, self-contained breathing apparatus approved by NIOSH/MSHA

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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 an inert solid. Sweep (scoop) up and remove to a chemical 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. During transportation, do not expose to extremely hot temperatures.

OTHER PRECAUTIONS:  
No special DOT classification

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#### SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

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RESPIRATORY PROTECTION  
None 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 of cured materials.

VENTILATION:

Local Exhaust - None during normal industrial use

Recommended during Dry Grinding.

Mechanical (general) None during normal industrial use.

May be required during grinding.

Special None during normal industrial use.

Other None during normal industrial use.

PROTECTIVE GLOVES:

Wear impervious gloves to prevent repeated or prolonged skin contact.

EYE PROTECTION:

None during normal industrial use. Goggles or safety glasses with side shields are recommended if dry grinding produces flying particles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

As necessary to prevent prolonged skin contact.

WORK / HYGIENIC PRACTICES:

Standard hygienic practices during normal industrial use. Wash skin with soap and water.

Employee must be instructed as to proper personal hygiene. Vacuuming and / or wet sweeping is recommended. Use of compressed air to blow dust should be forbidden.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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BOILING POINT: Not Available      VAPOR PRESSURE: Very low (slight resin odor)

VAPOR DESTINY: Not Available      SOLUBILITY IN WATER: Insoluble

MELTING POINT: Not Available      EVAPORATION RATE: Not Available

SPECIFIC GRAVITY: (H2O-1) 1.5-2.5      (Butyl acetate-1)

APPEARANCE AND ODOR:

Dark gray solid, slight resin odor

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 SO<sub>2</sub>.

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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No Information Available

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SECTION 12: ECOLOGICAL INFORMATION

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No Information Available

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SECTION 13: DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL METHOD

Material is an inert solid. Dispose according to applicable federal, State and local regulations.

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SECTION 14: TRANSPORT INFORMATION

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No Information 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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DISCLAIMER OF LIABILITY:

The information contained here in is based on data taken from sources believed to be both current and reliable at the time of publication. Rayloc, however, makes no warranties expressed or implied, as to it's accuracy and assumes no liability arising from its use by others. Compliance with all applicable federal, state, and local laws and regulations remains the responsibility of the users.