

H1RAY1000-125 Rayloc Asbestos Free Brake Shoe Lining Material

MATERIAL SAFE DATA SHEET

Effective Date: July 6, 2007

Code: Brake Lining Material

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Asbestos Free Brake Shoe Lining Material

IDENTIFY BY EDGE CODES: UP 5P500 GG

MANUFACTURER'S NAME:

FDP Brakes Virginia

PO box 1426 Tappahannock Va 22560

EMERGENCY TELEPHONE NUMBER:

(24 Hours/Day, 7Days/Week)

804-443-5356

SUPPLIER'S NAME:

Rayloc

Division of Genuine Parts Company

3100 Windy Hill Road

Atlanta, GA 30339

REVISION DATE: Nov. 1, 2012

SECTION 2: HAZARDOUS IDENTIFICATION

Emergency Overview:

Bake shoes are not considered hazardous products as sold. They do not present a fire hazard and 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 overexposure may result in lung disease or damage. The hazardous components in this product are bound in a resin matrix and are not released during normal handling in finished form.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME

CAS Number

Cured Phenolic Resin

9003-35-4

Zinc

7740-66-6

Steel Fiber

12597-69-2

Barium sulfate

7727-43-7

Friction Powder

Mixture

Coke

64743-05-1

SECTION 4: FIRST AID MEASURES

Eye: Do not rub eyes. Flush immediately with large amounts of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. If irritation persists or for foreign body in the eye, get immediate medical attention.

Skin: Wash area of contact 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. No first aid needed.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media: 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 resin may burn at high temperatures, however, this material will not support combustion.

Combustion Products: Combustion products from phenolic resin may include carbon monoxide, carbon dioxide, nitrogen oxides, aldehydes, phenols, cyanide, ammonia and various hydrocarbons.

SECTION 6: ENVIRONMENTAL RELEASE MEASURES

Pick up large pieces. Use HEPA vacuum to clean up any dust or 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. Report releases to the environment to appropriate authorities.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid generating and breathing dust. Do not grind, sand, drill or machine these parts without taking appropriate precautions. 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.

Storage: Keep product dry.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Hazardous Components	Exposure Limits
Cured Phenolic Resin	None Established
Zinc	5 mg/m3 (respirable) 15 (total dust) PEL-TWA (as Zinc Oxide) 2 mg/m3 (respirable) TLV-TWA 10 (respirable) TLV-STEL (as Zinc Oxide)
Steel Fiber	5 mg/m3 PEL-TWA (as iron oxide) 10 mg/m3 TLV-TWA (as iron oxide)
Barium sulfate	5 mg/m3 PEL-TWA (respirable dust) 10 mg/m3 TLV-TWA (total dust)
Friction Powder	5 mg/m3 PEL-TWA (respirable dust) 15 mg/m3 PEL-TWA (total dust)
Coke	5 mg/m3 PEL-TWA (respirable dust) 15 mg/m3 PEL-TWA (total dust)

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

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 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: Not Applicable	Specific Gravity: Not Available
Melting Point: Not Applicable	% Volatile: Not Applicable
Vapor Pressure: Not Applicable	Evaporation Rate (Butyl Acetate=1): Not Applicable
Vapor Density (Air=1): Not Applicable	
pH: Not Applicable	% Solubility in Water: Insoluble
Octanol/Water Partition Coefficient: Not Applicable	
Flashpoint: Not Applicable	Lower Flammability Limit: Not Applicable
Autoignition Temperature: Not Applicable	

Upper Flammability Limit: Not Applicable
Odor/Appearance: Metallic parts with gray friction material.

SECTION 10: STABILITY AND REACTIVITY

Stability: Material is stable.
Incompatibility: None determined.
Hazardous Decomposition Products: Combustion products from phenolic resin may include carbon monoxide, carbon dioxide, nitrogen oxides, aldehydes, phenols, cyanide, ammonia and various hydrocarbons.
Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Potential Health Effects:

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.

Carcinogenicity: None of the components of the product present at 0.1% or greater are listed as a carcinogen by IARC, NTP or OSHA.

Medical Conditions Aggravated by Exposure: Persons with pre-existing skin and respiratory disorders may be at an increased risk from exposure.

Acute Toxicity Values:

Iron: Oral Rat LD50: >30 gm/kg

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

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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 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.

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 chemicals known to the State of California to cause cancer, birth defects or reproductive harm.

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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