

MATERIAL SAFETY DATA SHEET

Effective Date: May 2, 2008 Codes: Brake Lining Material

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Asbestos-free ceramic disc brake material

Identify by edge code(s): DMJ-4850-FF, SS-3250-FF

MANUFACTURER'S NAME:
 NEW WORLD FRICTION
 539 Collier MacMillan Drive, Unit B
 Cambridge, Ontario
 N1R 7P3 Canada

EMERGENCY TELEPHONE No.:
 519-623-0011

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

Revision Date: Nov. 1, 2012

The ingredients of this product are resin-bonded together.
 The exact formula is proprietary and confidential. Precise product
 composition will not be disclosed, other than in accordance with
 applicable laws and regulations, or with a written secrecy agreement

SECTION 2: HAZARDOUS INGREDIENTS

No toxicological data was found for this composite product. Information
 on components is supplied:

Chemical Identity	CAS#	Approx. Wt. %	Exposure Limits	
			OSHA PEL	ACGIH TLV
Graphite	7782-42-5	<10	15 mg/m3	2.5 mg/m3
Petroleum Coke	64743-05-1	<15	10 mg/m3	2 mg/m3
Silica, crystalline	14808-60-7	<1	15 mg/m3	0.1 mg/m3
			Total Dust	
Ceramic Particles	66402-68-4	<610 mg/m3		
Phenolic Resins	9005-35-4	<10	Not established	Not established
Potassium Titanate	12056-51-8	<5	Not available	Not available
<u>Nuisance Dusts:</u>				
Barium Sulfate	7727-43-7	<20	15 mg/m3	10 mg/m3
			Total Dust	
Magnesium Oxide	1309-48-4	<5	15 mg/m3	10 mg/m3
			Total Dust	
Rubber	N/A	<5	Not available	Not available
Vermiculite	1318-00-9	<10	15 mg/m3	10 mg/m3
			Total Dust	
Brass Alloy UNS-C37700		<20	Not available	Not available

SECTION 3: Physical Characteristics

Physical state: Solid material.
Appearance: Grayish black.
Odor: Very slight odor.
Boiling point: Not applicable.
Melting point: Not applicable.
Vapor pressure (mm Hg): Not applicable.
Evaporation rate: Zero.
Solubility in water: Zero.
Specific gravity: Approximately 2.15

SECTION 4: Fire & Explosion Hazard

Flammability risk: Nil.
Flash point: Not applicable.
Explosion risk: Nil.

SECTION 5: Reactivity

Chemical stability: Very stable.
Hazardous polymerization: Not applicable.
Incompatible materials: Strong oxidizing agents and acids.
Conditions of reactivity: Very extreme heat will cause oxidative decomposition of the organic components.
Decomposition products: Carbon monoxide, carbon dioxide and water.
Incomplete combustion may create soot and toxic fumes.

SECTION 6: Health Hazard Data

Routes of Entry:

Skin contact: Not normally dangerous. Prolonged or repeated skin contact may cause irritation. Skin contact with product may cause an allergic skin reaction similar to poison ivy in some individuals. Persons with pre-existing skin disorders may be more susceptible to irritation from skin contact.

Inhalation: Excessive exposure to the dust produced from this friction material can lead to pneumoconiosis or non-disabling conditions such as pleural thickening, plaques or calcification.

Eye contact: Not normally dangerous. Exposure to dust may cause eye irritation.

Ingestion: Not normally dangerous.

Carcinogenicity: None of the components of this product are classified as carcinogens or potential carcinogens.

Reproductive effects: None known.

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SECTION 7: First Aid
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Skin contact: In case of skin contact, wash thoroughly with soap and water. Seek medical help if skin irritation persists.
Inhalation: Remove to fresh air. Get medical attention.
Eye contact: Wash with large amounts of fresh cool water. Get medical attention.
Ingestion: Get medical attention.

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SECTION 8: Protective Measures
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Handling equipment: No respiratory protection is normally required if the product is handled in a well ventilated area. If dust or fibers are present, wear impervious gloves and protective clothing. Contaminated clothing should be isolated in the work area until laundered. Control dust with water or damp rags and dispose of these in sealed containers.

Do not use a brush or air hose to remove dust, but use a vacuum equipped with a high efficiency particulate air (HEPA) filter. Use a NIOSH approved respirator.

Storage requirements: Store in a cool, dry, well-ventilated area away from other strong chemicals.

Waste disposal: In accordance with local, state and federal requirements. Waste materials should be contained in airtight containers.