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MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: July 21, 2000 CODE: BRAKE LINING MATERIAL

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SECTION 1: PRODUCT AND COMPANY INFORMATION

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PRODUCT NAME: Asbestos Free Ceramix Disc Pad Lining Material

PRODUCT IDENTIFICATION: CMX 709 FF, CMX 705 FF, CMX 711 FF, CMX 706 EF,  
 CMX 701 FF, CMX 707 EE, CMX 702 FF, CMX 708 FF,  
 CMX 704 FF, CMX 710 EE, CMX 720 FF, CMX 724 FF,  
 CMX 731 FF, CMX 722 FF, CMX 752 FF, CMX 726 FF,  
 CMX 750 FF, CMX 754 FF, SS 700 FF, TS 770 FF

MANUFACTURER'S NAME:  
 Akebono  
 19-5 Nihonbashi, Koamicho, Chuo-ku  
 Tokyo, 103-8534 Japan

EMERGENCY TELEPHONE NUMBER:  
 (534) 6221-385

MISCELLANEOUS INFORMATION:

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

REVISION DATE:  
 Nov. 1, 2012

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SECTION 2: HAZARDOUS INGREDIENTS

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C.A.S. No.	INGREDIENTS	%	EXPOSURE LIMITS	
			OSHA PEL	ACGIH TLV
1344-28-1	Aluminum Oxide	*		10 mg/m3
7440-36-0	Antimony Compounds		0.5 mg/m3	0.5 mg/m3
7727-43-7	Barium Sulfate		*	10 mg/m3
1317-65-3	Calcium Carbonate		*	10 mg/m3
1333-86-4	Carbon Black		3.5 mg/m3	3.5 mg/m3
7782-42-5	Graphite		15mppcf	2.5 mg/m3
1309-48-4	Magnesium Oxide		*	10 mg/m3
1314-23-4	Zirconium Oxide		5 mg/m3	5 mg/m3
7439-98-7	Molybdenum Compounds		15 mg/m3	10 mg/m3
12001-26-2	Mica		3 mg/m3	3 mg/m3

ONE OR MORE OF THE FOLLOWING FIBERS:

7440-50-8	Brass Fiber	1 mg/m3	1 mg/m3
7440-50-8	Copper Fiber	1 mg/m3	1 mg/m3
Various	Fiber Blend	N/A	N/A
	Fiber Glass	N/A	10 mg/m3
	Mineral Fiber	N/A	10 mg/m3
7439-89-6	Steel Fiber	N/A	N/A
13983-17-0	Wollastonite	N/A	10 mg/m3

INERT AND NUISANCE DUST:

Various	Cured Phenolic Resin Dusts	10 mg/m3	10 mg/m3
1309-37-1	Iron Oxide	10 mg/m3	10 mg/m3
1344-95-2	Calcium Silicate Hydrate	10 mg/m3	10 mg/m3

\*15 mg/m3 Total dust  
 \*5 mg/m3 Respirable dust

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SECTION 3: HAZARDS IDENTIFICATION

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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.

SIGN AND SYMPTOMS OF EXPOSURE:

Skin

Some persons may be sensitive to partially cured phenolic or cashew resins and develop dermatitis-like reactions similar to poison ivy.

Eyes

Exposure to dust may cause eye irritation.

Inhalation

Irritation of soreness in throat, nose and respiratory tract.

Ingestion

Not an anticipated route of entry.

HEALTH HAZARDS (ACUTE and CHRONIC):

General studies of very fine respirable fibers physically similar in diameter and length to asbestos indicate the possibility of chronic lung disease including fibrosis with overexposure. Some persons may be sensitive to partially cured phenolic resins and develop dermatitis-type reactions upon skin contact. Metal dusts can be irritants of the eyes

and upper respiratory system. There is little known evidence of chronic industrial poisoning from iron or aluminum dusts.

CARCINOGENICITY:

NTP: No                      IARC Monographs: No                      OSHA Regulated: No

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SECTION 4: FIRST AID MEASURES

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FIRST AID EMERGENCY PROCEDURES:

Inhalation: Remove to fresh air. Get medical help if irritation persists.

Skin Contact: Wash with mild soap and running water. Treat as poison ivy.

Ingestion: Unlikely, consult a physician

Eyes: Flush with running water for several minutes. If symptoms persist, consult a physician.

\*If any of these symptoms persist, seek medical attention immediately.

\*Advice to physician: No specialized first aid or medical treatment procedures are required.

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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, fog, foam or dry chemical

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Toxic and irritating materials may be released in a fire.

SPECIAL FIREFIGHTING EXPLOSION HAZARDS:

In a sustained fire, self-contained respirators should be worn.

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SECTION 6: ENVIRONMENTAL RELEASE MEASURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Use vacuum equipped with high efficiency particulate air (HEPA) filter to remove dust.

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SECTION 7: HANDLING AND STORAGE

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Information not available

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SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION  
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RESPIRATORY PROTECTION:

Respiratory protection may be required if the ingredient exposures exceed their respective Permissible Exposure Limits (PELs) or the Time Weighted Average (TWA). Self Contained Breathing Apparatus (SCBA) should be used if dusts are created due to fire or explosion.

VENTILATION:

Local Exhaust ñ Preferred  
Mechanical (general) ñ N/A

SKIN PROTECTION:

Gloves are recommended when handling or removing brake parts.

EYE PROTECTION:

Goggles or safety glasses are adequate for all uses.

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.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES  
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BOILING POINT: Not Available	VAPOR PRESSURE: Not Available
VAPOR DESTINY: Not Available	SOLUBILITY IN WATER: Insoluble
MELTING POINT: Not Available	EVAPORATION RATE: None

SPECIFIC GRAVITY: 1.7 - 4.5

APPEARANCE AND ODOR:

Solid, odorless, light tan to dark gray (metallic) color

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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.

INCOMPATIBILITY (MATERIALS TO AVOID):

N/A

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

Incomplete combustion will create carbon monoxide and carbon dioxide.

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:

Dispose according to applicable federal, State and local regulations. The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

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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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The products identified below contain certain toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning Community Right-To-Know Act of 1988 and 40 CFR 372:

C.A.S. No.	Name	% by weight in this product
7440-50-8	Copper Compounds	5 to 30%
7440-36-0	Antimony Compounds	1 to 20%

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.