

H1RAY1000-167 RAYLOC ASBESTOS FREE CERAMIC DISC BRAKE LINING MATERIAL

MATERIAL SAFE DATA SHEET

Effective Date: October 1, 2008

Code: BRAKE LINING MATERIAL

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ASBESTOS FREE CERAMIC DISC BRAKE LINING MATERIAL

IDENTIFY BY EDGE CODE: NBC 0101 FF

MANUFACTURER'S NAME:

Yantai Hi Pad Brake Technology CO. LTD
No. 27 Yingfu Rd. Fushan District
Yantai, Shandong Province, China 264006

Telephone: (86) -535 2130127

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SUPPLIER'S NAME:

Rayloc
Division of Genuine Parts Company
3100 Windy Hill Road
Atlanta, GA 30339

Revision Date: Nov. 1, 2012

SECTION 2: COMPOSITION / COMPONENTS DATA

Although several of the ingredients used to formulate this product may be hazardous in their raw state, the manufacturing process results in a solid, infusible product presenting an inert character. We indicate below those hazardous constituents that may be release from the product by machining, grinding, or abrading.

Components	%	CAS	TLV-TWA (ACGIH)
Antimony trisulfide Sb2S3	<2	1345-04-6	0.5mg/m3
Potanssium titanate NBR	<25 <5	12056-51-8 9003-18-3	Not available 5 mg/m3
Graphite	<10	7782-42-5	2 mg/m3
Barium Sulfate	<20	7727-43-7	2 mg/m3
Aramid fibre	<5	7732-18-5	5 mg/m3
Mica	<8		Not available
ZrSiO4	<10	14940-68-2	Not available
Synthetic Zeolite	<3	1318-02-1	Not available
Cashew dust	<4	68602-89-1	Not available
Phenolic Resin	<7	9003-35-4	10 mg/m3

SECTION 3: HAZARDS IDENTIFICATION

Main Hazards: Dust Inhalation.
Health effects-Eye: Released dust may cause a light temporary irritation.
Health effects-Skin: Released dust may cause a light irritation by repeated or prolonged contacting.
Health effects-Ingestion: Ingestion may cause light irritation of mouth, throat, and alimentary tract.
Health effects-Inhalation: Dust inhalation may cause irritation of nose, throat, and respiratory tract.

SECTION 4: FIRST AID MEASURES

First aid - Eyes: Flush immediately with plenty of water at least during 15 minutes by maintaining the eyes open. Request medical attention if pain and redness become persistent
First aid - Skin: Wash with soap and water.
First aid - Ingestion: Wash mouth with water without inducing vomiting. Request medical attention if necessary.
First aid - Inhalation: Leave exposure, keep warm and relax. Request Medical attention if necessary.
Advise to Doctor: Treat symptomatically.

SECTION 5: MEASURES FOR FIGHTING FIRES

Auto -Ignition: This product is intrinsically flame resistant, but in an oxygen enriched atmosphere may ignite at temperatures exceeding 650 C (1.202 F)
Appropriate Extinguishing Media: Water (with or without additives), foams, polyvalent chemical powder, and haloes.
Inappropriate Extinguishing Media: Conventional chemical powder, CO2.
Firefighting Protective Equipment: Carry portable breathing apparatus.

SECTION 6: MEASURES FOR ACCIDENTAL SCAPE

Personal Precautions: Use appropriate protective clothes.
Environmental Precautions: Avoid material entering into sewers and water system.
Precautions by Spilling: Avoid cleaning using compressed air. Collect the dust by vacuuming or wet mopping. Introduce material into appropriate recipients for its recovery or elimination. Avoid creating dust.

SECTION 7: HANDLING AND STORAGE

Handling: In case of dust release use ventilation by localizing dust exhausters. Avoid inhalation as well as skin and eyes contact with possible resulting dust adherence.

Storage: Store the product in sites free of high humidity.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: The machining, grinding and abrading operations of this product should be process in a ventilated area, and preferably by using ventilation system with localised exhausting as control method of the generated dust.

RESPIRATORY PROTECTION: Filtering mask type FFP1 according to EN-149 Norm. marked CE for the EEC countries. For other countries consider local regulations.

HANDS PROTECTION: Wear gloves if skin irritation occurs.

EYES PROTECTION: Wear protective glasses if dusty operations are in process.

CORPORAL PROTECTION: Wear overall if dusty operations are in process.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Color:	Grey/Black
Odor:	None or phenolic
Autoflammability:	At temperatures exceeding 650 C (1.202 F) in oxygen enriched atmospheres.
Explosion Hazard:	No
Combusting Propertierties:	No
Specific Gravity:	2,30-2,50
Lip solubility:	Insoluble
Apportion ratio n-Octanol-Water:	N/A
ph:	10-12
Steam Pressure:	N/A
Hydro solubility:	Insoluble

SECTION 10: STABILITY AND REACTIVITY

Stability: This product is stable at normal temperatures and storage conditions.

Hazardous Decomposition Products: By Pyrolysis: Carbon monoxide, Carbon dioxide, Phenol, Aliphatic hydrocarbons, Cetons, Alcohols, Aromatic Hydrocarbons and Aldehydes.

By Combustion: Carbon monoxide, Carbon dioxide, Formic Acid, Aliphatic and aromatic hydrocarbons, Hydrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: No acute toxic effect have been reported from the

component substances of the form product released dust.
Chronic Toxicity: Prolonged exposure to the product released dust
may cause pneumoconiosis.
Irritation: The dust released dust from product may cause irritation of
the respiratory tract.

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SECTION 12: ECOLOGICAL INFORMATION

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Mobility: The product is insoluble in water.
Persistence/Degradability: The product is biodegradable.
Bioaccumulation Potential: The product is not bio accumulated.
Eco toxicity: The product is not toxic for the aquatic species.

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SECTION 13: ELIMINATION

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Product Elimination: Remove in accordance with corresponding state and
local regulations.
Elimination of Waste: Remove in accordance with corresponding state and
local regulations.

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SECTION 14: OTHER DATA

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First MSDS Emission: 10.01.08
Uses and Restrictions: In brake systems for automobiles and individual
vehicles