



Material: FTL095 MATERIAL HEALTH & SAFETY

I CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Identification

General Use: Used for windlasses, mooring winches, cranes.
Product Description: Non-asbestos woven brake lining with fine brass wire insertion.

Manufacturer

Company Name: Friction Technology Ltd
Section in Charge: Environmental Control Section / Technical Division
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INGREDIENTS AND HAZARDS

Ingredient	CAS No
Glass filament	65997-17-3
Cashew resin	-

HAZARDS IDENTIFICATION

Emergency Overview:

May cause skin and eye irritation. Prolonged or repeated excessive inhalation of dust generated by cutting or polishing of this product may cause respiratory disease.

Primary Routes of Entry:

Via respirable dust to the lungs and respiratory system.

Primary Target Organs: Lungs and respiratory system

Potential Health Effects:

Eye Contact: May cause mechanical irritation.

Skin Contact: May cause mechanical irritation resulting long-term exposures to product dust.

Inhalation: Long term overexposure to airborne dust may cause respiratory disease.

Ingestion: None-hazardous when ingested.

Carcinogenicity: Glass filament is classified as IARC Group 3 (Unclassifiable as to carcinogenicity in humans).

FIRE & EXPLOSION DATA

Inhalation: None indicated. No acute health effects.

Ingestion: Ingestion is unlikely. If ingested, drink sufficient water and vomit and get medical attention.

Skin Contact: Flush with water or slightly warm water and wash with soap. Get medical attention if pain and inflammation.

Eye Contact: Flush eyes with water until irritation subsides, at least 15 minutes. Abrasive action may cause damage to the outer surface of the eye. Get medical attention if irritating.

Note to Physician: Treat symptomatically.

Fire Fighting Measures

Flammable Properties: Not available

Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.

Fire Fighting Procedure: Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

Unusual Fire and Explosion Hazards: None

ACCIDENTAL RELEASE MEASURES

Clean-up Procedures: No Special Precaution is required.

Personal Precautions: No Special Precaution is required.

HANDLING & STORAGE

Handling: Take all precautions necessary to minimize dust generations and airborne exposure. Assure proper respiratory protection if dust potential exceeds PEL/TLV. When the dust is spilled in spite of your attention, suck up by vacuum system.

Storage: Store in a cool, dry, well-ventilated location.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Airborne Exposure Limits:

Ingredient	CAS No	TLV	PEL	
Glass filament (Diameter about 9mm)	65997-17-3			1 f/cc(F)
None				

Key: TLV = ACGIH2007, 8hr, time weighted average (TWA)

PEL = OSHA1994 permissible exposure limit

(F) Respirable fibers: length>5µm:aspect ratio>3:1

Engineering Controls: Maintain sufficient mechanical or natural ventilation to assure dust concentrations remain below PEL/TLV. Use local exhaust if necessary. Power equipment should be equipped with properly designed dust collection devices.

Personal Protective Equipment:

Eye/Face Protection: To protect eyes against dust and particulate, wear safety glasses with side seal when cutting material with mechanical equipment.

Skin Protection: Under normal conditions the wearing of protective gloves and clean, body-covering clothing should be adequate.

Respiratory Protection (Specify Type): When over PEL/TLV wear an approved respirator and/or mask to protect against dust.

PHYSICAL & CHEMICAL PROPERTIES

Appearance and Odor: Composite material, ochre.

Boiling Point: Not available.

Melting Point: Not available.

Vapor Pressure: Not applicable.

Vapor Density: Not applicable.

Evaporation Rate: Not applicable.

Solubility in Water: Insoluble.

pH: Not applicable.

Density: Not available.

STABILITY & REACTIVITY

Chemical Stability: Stable.

Condition to Avoid: None in designed use.

Incompatibility with Other Materials: None in designed use.

Hazardous Decomposition Products: None.

Hazardous Polymerization: Will not occur.



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TOXICOLGICAL INFORMATION

Eye Effects: Eye contact may cause mechanical irritation.
Skin Effects: Skin contact may cause mechanical irritation, inflammation and rash.
Acute Oral Effects: Testing not conducted.
Chronic Effects: Long term overexposure to airborne dust may cause chronic health effects.
Mutagenicity: Testing not conducted
Carcinogenicity: Glass filament is classified as IARC Group 3 (Unclassifiable as to carcinogenicity in humans).

ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

DISPOSAL INFORMATION

Comply with all federal, state and local regulations.
May be disposed in an approved landfill.

TRANSPORTATION INFORMATION

Follow all regulations in your country.
IMO: Not regulated as dangerous goods according to the IMDG Code.
ICAO: Not regulated as dangerous goods according to the IACO Technical Instructions.

REGULATORY INFORMATION

Follow all regulations in your country.

OTHER INFORMATION

References:
1. IARC : Monographs on the Evaluation of the Carcinogenic Risks to Humans Vol. 81(2002), "Man-made vitreous fibers"
2. ACGIH 2007 Threshold Limit Value for Chemical Substances and Physical Agents (2007)
3. Guide to Occupational Exposure Values 2007(2007)

This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1.

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