



# FTL180 HEALTH & SAFETY DATA SHEET

The product identified on this page is a friction material. Some potential may exist when exposure to dust when grinding, drilling, milling, etc., Occurs all information contained herein should be adhered to.

The ingredients listed in this data sheet are contained in the product. Exact formulations are considered proprietary and confidential and as such precise product information will not be disclosed, in accordance with the regulations, without and approved Secrecy Agreement.

The company shall in no event be responsible for any damages of whatever nature directly or indirectly resulting from the publication or use of or reliance upon the data provided herein.

PRODUCT IDENTIFICATION: FTL180

APPLICATION: AUTOMOTIVE CLUTCH FACINGS

## 1) MANUFACTURER INFORMATION.

-Manufacturer: Friction Technology Ltd  
-Address: Unit1, Silverend Trading Est, Wedgebury Way, Brierley Hill, DY5 3LA West Midlands UK.  
-Telephone: (44) 01384 480850- Fax (44) 01384 482036

## 2) HAZARDOUS INGREDIENTS/ IDENTIFY INFORMATION.

HAZARDOUS COMPONENTS	OSHA PEL	ACGIH TLV
Organic fibers:	0.1 mg/M	0.1 mg/M
Carbon products,Others:	1.0 mg/M3	1.0 mg/M3
Phenolic resin, Cashew:	5.0 mg/M3	5.0 mg/M3
Metal and their Oxides chrome, Brass, Magnesium.	10.0 mg/M3	10.0 mg/M3

Note: this is an asbestos free product.

## 3) HEALTH HAZARD DATA

-Route(s) of entry: Inhalation? Yes Skin: Yes  
Ingestion: Yes  
-Health hazards (Acute and Chronic)  
-Some persons may be sensitive to phenolic resins and develop dermatitis-type problems. Dust of fiber silica, tale graphite, carbon black and coal can produce pneumoconiosis, silicosis, a progressive degenerative scarring of lung tissue and other lung damage.  
-Irritation of the skin could be produce by Glass Fiber. Metal dusts can be irritants of the eyes and upper respiratory system.

Signs and symptoms of exposure  
-Phenolic Resins-skin eruption similar in appearance to poison ivy.  
Pneumoconiosis and silicosis - coughing, wheezing, shortness of breath, sputum production, impaired pulmonary function. Dusts in eye may cause irritation. Gastrointestinal disturbances from ingestion. Glass fiber may create irritation of the skin of some persons.

## 4) EMERGENCY AND FIRST AID PROCEDURES.

-Inhalation: Remove from exposure to fresh air, restore breathing, and get medical attention.  
-Skin contact: Wash affected area thoroughly with soap and water. If irritation persists, get medical attention.  
-Eye contact: Flush eyes with large amounts of water for 15 minutes with eye lids open, get medical attention.  
-Ingestion: Give large quantities of water and induce vomiting, get medical attention. Do not make unconscious people vomit.

## 5) FIRE AND EXPLOSION HAZARD DATA.

-Flash Point: NA Flammable limits: NA LEL UEL  
-Extinguishing media: Water (class A,B o C)  
-Special fire fighting procedures: Positive pressure self-contained breathing apparatus should be used, personnel not having suitable respiratory protection should leave the area to prevent significant exposure to toxic combustion gases.

## 6. STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED.

Spill and leak procedures: NA

## 7. HANDLING AND STORAGE

-Grinding, drilling, milling can result in the release of airborne dust. Wet sweep or vacuum, avoid generating airborne dust and avoid breathing dust, measures in section 8 should be followed if this occurs.  
-Storage in a dry place.

-Other precautions  
-Pre-employment screening for allergies and histories of skin sensitivities may be beneficial in determining persons sensitive to phenol and glass fiber materials.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

-Respiratory protection: Appropriate mask.  
-Ventilation: Local Exhaust for dust exposures exceeding TLV.  
Mechanical (General): Not recommended for dust exposures.  
Special: NK  
-Protective gloves: Recommended  
-Eye protection: Should not be needed for normal handling of product. Eye protection is good practice where dust is propelled by grinding or drilling activities.  
-Other protective clothing or equipment: long sleeve shirts or other projective clothing may be benefited to prevent skin contact of persons with skin sensitive to phenolic resins and glass fiber.

## 9. PHYSICAL AND CHEMICAL PROPRIETIES .

-Appearance: solid.  
-Odor: Friction material odor.  
-Boiling point: NA  
-Vapor pressure (mm Hg): NA  
-Vapor density: NA  
-Melting point: NA  
-Solubility in water: No.

The information supplied in this data sheet is believed to be accurate and reliable, and was obtained by scientific and laboratory testing. However, since actual conditions of use are largely outside the control of FRICTION TECHNOLOGY LIMITED, it is suggested that this material be thoroughly tested and its suitability for use be determined before final acceptance.



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### 10. STABILITY AND REACTIVITY.

- Stability: stable. Conditions to avoid: NK.
- Hazardous decomposition products: Incomplete combustion will create CO, CO<sub>2</sub> y So<sub>2</sub>.
- Incompatibility (materials to avoid): NK.
- Hazards polymerization: Will not occur Conditions to avoid: NK
- Conditions to avoid: prolonged exposure to elevated temperatures >300°C

### 11. TOXICOLOGICAL INFORMATION

Short term effects

- Inhalation: May cause irritation to upper respiratory tract.
- Ingestion: NK.
- Skin contact: May cause temporary irritation.
- Eye contact: May cause irritation.

### 12. ECOLOGICAL INFORMATION

- Mobility: NK.
- Biodegradation: NK.
- Ecotoxicity: NK.

### 13. DISPOSAL CONSIDERATIONS.

- Product: Seal all dust created by abrading in impervious bags and dispose to a suitable licensed landfill site.
- Contaminated packing: Remove all packaging for recovery or incinerate/landfill.

### 14. TRANSPORT INFORMATION

Not classified as dangerous for conveyance.

### 15. REGULATORY INFORMATION

- ACGIH TLV-TWA American Conference of Governmental industrial hygienists.
- (COSHH) Control of Substances hazardous to Health.

### 16. OTHER INFORMATION

- NA: Not Available
- NK: Not Know

Responsible : Steve Hart  
Quality department.

