

# FTL177 H&S

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**PRODUCT IDENTIFICATION: FTL177**

**APPLICATION: INDUSTRIAL BRAKES AND CLUTCHES**

## 1.- SPECIFICATIONS

<b>Manufacturer:</b>	Friction Technology LTD
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## 2.- HAZARDS IDENTIFICATION

CLASSIFICATION AND IDENTIFICATION OF HAZARDS	
<b>Hazards for the humans:</b>	Some persons may be sensitive to phenolic resins and develop dermatitis-type problems. Dust of fibre 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 Fibre. Metal dusts can be irritants of the eyes and upper respiratory system.
<b>Hazards for the environment:</b>	NK

## 3.- COMPOSITION INFORMATION

Name	%WEIGH	CAS N°	Phrase R	OSHA PEL	ACGIH TLV
<b>Phenolic resins:</b>	15-20	9003-35-4	R42/43	5mg/m3	5mg/m3
<b>Organic fibres:</b>	~10	287922-11-6	R38	0.1mg/m <sup>3</sup>	0.1mg/m <sup>3</sup>
<b>Carbon products:</b>	~10	7782-42-5	NA	3.5mg/m3	3.5mg/m3
<b>Oxides:</b>	~4	1308-38-9	NA	10mg/m3	10mg/m3

#### 4.- EMERGENCY AND FIRST AID PROCEDURES

<b>Inhalation:</b>	Avoid breathing dust, if happens move to fresh air. Get medical attention in case of persistent cough
<b>Ingestion:</b>	If dust is swallowed, rinse mouth with water and obtain medical advice
<b>Skin contact:</b>	Wash with soap and water for 15 minutes. Obtain medical advice if irritation
<b>Eye contact:</b>	Irrigate with large amounts of water. Obtain medical advice if irritation does not disappear

#### 5.- FIRE HAZARD DATA

<b>Extinguisher:</b>	Water (class A, B o C)
<b>Exposure hazards:</b>	NA
<b>Protective equipment:</b>	Wear self-contained breathing equipment

#### 6.- ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Avoid breathing and inhalation of dust. Use PPE as identified in Section 8
<b>Cleaning measures:</b>	Dust has to be collected by cleaned with a wet cloth or vacuum
<b>Environmental Precautions:</b>	No special precaution required

#### 7.- HANDLING AND STORAGE

<b>Precautions for safe handling:</b>	Provide appropriate exhaust ventilation at places where dust is formed. Wet sweep or vacuum for dust cleaning.
<b>Storage:</b>	Keep the material stored in a clean and dry location avoiding temperatures above 100°C

#### 8.- EXPOSURE CONTROLS/ PERSONAL PROTECTION

<b>Information about design of technical facilities:</b>	Ensure ventilation to maintain airborne dust levels to below established exposure standard. Use vacuum to remove dust instead of compressed air
<b>Respiratory Protection:</b>	In case of manufacture product auto-filter mask (FFP1S) maximum level of use: 4x TVL for particles.
<b>Skin protection:</b>	Handle with gloves and wear long sleeve shirts or suitable protective clothing, e.g. general overalls
<b>Eye protection:</b>	Use appropriate goggles when machining or abrading products

## 9.- PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Solid Black.
<b>Odour:</b>	Characteristic friction material odour
<b>Flammability:</b>	NA LEL UEL
<b>Water Solubility:</b>	No
<b>Explosive Properties:</b>	Non-hazardous as supplied but dust from grinding can presents an explosion hazard.

## 10.- STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Hazardous decomposition products:</b>	Incomplete combustion will create CO, CO <sub>2</sub> and SO <sub>2</sub>
<b>Incompatibility with materials:</b>	Nk
<b>Conditions to avoid:</b>	Prolonged exposure to elevated temperatures, >300°C
<b>Hazardous Polymerization:</b>	Will not occur.

## 11.- TOXICOLOGICAL INFORMATION

<b>Inhalation:</b>	May cause irritation to upper respiratory tract.
<b>Eye contact:</b>	May cause irritation
<b>Skin contact:</b>	May cause temporary irritation
<b>Ingestion:</b>	NK

## 12.- ECOLOGICAL INFORMATION

<b>Eco Toxicity:</b>	NK
<b>Mobility:</b>	NK
<b>Biodegradation:</b>	NK
<b>Bio Accumulation:</b>	NK

### 13. - DISPOSAL CONSIDERATIONS

<b>General:</b>	Seal all dust created by abrading in impervious bags and dispose to a suitable licensed landfill site
<b>Disposal Methods:</b>	Remove all packaging for recovery or incinerate/landfill

### 14. - TRANSPORT INFORMATION

<b>Transport:</b>	Not classified as dangerous for conveyance. Use any container of suitable size and length
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### 15. - REGULATORY INFORMATION

<b>EEC Classification:</b>	This product is not considered dangerous according to 67/548/EEC directive it modifications and adaptations.
<b>Refer to:</b>	<p>Australian Inventory of Chemical Substances (AICS)</p> <p>Canadian Domestic Substances list (DSL)</p> <p>Inventory Chino (IENCS)</p> <p>European Inventory of Existing Commercial Chemical Substances (EINECS)</p> <p>Japanese Existing and New Chemical Substances (ENCS)</p> <p>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</p> <p>United States Toxic Substances Control Act (TSCA)</p> <p>ACGIH TLV-TWA American Conference of Governmental Industrial Hygienists. (COSHH) Control of Substances hazardous to Health</p>

### 16. - OTHER INFORMATION

<b>Issued By:</b>	Friction Technology LTD
<b>Issue Date:</b>	17/11/2017
<b>Note:</b>	This information is based on our present knowledge and is accurate at the date of issue, to the best knowledge of Friction Technology Ltd. However, it shall not constitute a guarantee for any specific product featured and shall not establish a legally contractual relationship and condition or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with handling, storage, use or disposal of the product.