

# FTL135 H&S

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**PRODUCT IDENTIFICATION: FTL135**

**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>	Exposure to dust created by handling of this product should be kept as low as reasonably practicable limits. Handling of product may cause skin irritation.
<b>Hazards for the environment:</b>	NK

## 3.- COMPOSITION INFORMATION

Name	CAS N°	Concentration	OEL	Exposure Limit
<b>Copper fibres:</b>	7440-50-8	9-11	Fume - 0.2 Dust & Mist - 1	8 hour TWA
<b>Synthetic rubber:</b>		1.5-2.5	Fume - 0.6 Dust & Mist - 6	8 hour TWA
<b>Para-aramid fibre:</b>	26125-61-1	<15%	Fibres - 5	8 hour TWA

#### 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 for at least 15 minutes. Obtain medical advice if irritation does not disappear

#### 5.- FIRE HAZARD DATA

<b>Extinguisher:</b>	Any standard extinguishing equipment may be used
<b>Exposure hazards:</b>	Heated to very high temperatures, may give off toxic smokes.
<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.
<b>Storage:</b>	Keep the material stored in a clean and dry location avoiding temperatures above 300°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>	Wear respiratory equipment if exposure limits are exceeded
<b>Skin protection:</b>	Handle with gloves and wear 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>	Black solid
<b>Odour:</b>	No Characteristic odour
<b>Flammability:</b>	Will burn at elevated temperatures and when finely divided
<b>Auto Flammability:</b>	>350°C
<b>Melting Point:</b>	NA
<b>Water Solubility:</b>	NA
<b>Explosive Properties:</b>	Non-hazardous as supplied but dust from grinding can presents an explosion hazard.
<b>Relative Density</b>	3 g/cm <sup>3</sup>

## 10.- STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Hazardous decomposition products:</b>	CO, CO <sub>2</sub> , SO <sub>x</sub> , NO <sub>x</sub> , phenol, formaldehyde and cyanides
<b>Incompatibility with materials:</b>	NA
<b>Conditions to avoid:</b>	Prolonged exposure to elevated temperatures, >300°C
<b>Hazardous Reactions:</b>	None, relatively inert.

## 11.- TOXICOLOGICAL INFORMATION

<b>Inhalation:</b>	May cause irritation to upper respiratory tract. Para-aramid fibres of respirable dimensions (fibres with diameters <3.0µm that are capable of entering the respiratory system) are produced from harsh treatment of larger fibres, e.g. by abrading the product. Animal studies have shown that high concentrations of para-aramid fibres should be regarded as potentially harmful to humans.
<b>Eye contact:</b>	May cause irritation
<b>Skin contact:</b>	May cause irritation
<b>Ingestion:</b>	NK
<b>Carcinogenicity:</b>	The US Environmental Protection Agency classified para-aramid fibre as a possible human carcinogen.

## 12.- ECOLOGICAL INFORMATION

<b>Eco Toxicity:</b>	NK
<b>Mobility:</b>	NK
<b>Biodegradation:</b>	Not inherently biodegradable
<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>	Not classified
<b>Refer to:</b>	Health & Safety at Work Act 1974 Control of Substances hazardous to Health (COSHH) Regulations 1994
<b>Please note:</b>	This Safety Data Sheet does not constitute the user's own assessment of workplace risk as required by other health and safety legislation.

**16.- OTHER INFORMATION**

<b>Issued By:</b>	Friction Technology LTD
<b>Issue Date:</b>	17/11/2017
<b>Further Information:</b>	<p>Health and Safety Executive Guidance Notes</p> <p>EH40/2000 - Occupational Exposure Limits 2000</p> <p>EH46 - Man-Made Mineral Fibres</p> <p>MDHS14 - General Methods for the Gravimetric Determination of Respirable and Total Inhalable Dust.</p> <p>MDHS59 - Man-Made Mineral Fibre</p>
<b>Note:</b>	<p>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.</p>