

# HEALTH AND SAFETY DATA SHEET

## Para-Aramid Fibre Products

### 1. IDENTIFICATION OF SUBSTANCE

<b>Trade name:</b>	Para-Aramid Fibre Products	
<b>Supplier:</b>	MB Fibreglass	<b>Tel:</b> 02890 861992
	Unit 17 & 20 Abbey Business Park	
	Mill Road	
	Newtownabbey	
	BT36 7EE	

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### 2. HAZARD IDENTIFICATION

<b>Most important hazards:</b>	None
<b>Specific hazards (<i>processing</i>):</b>	Vigorous abrasion of para-aramid products can yield microscopic fibrous dust particles. Prolonged inhalation of fine fibrous dust at high concentrations may cause lung damage.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Presentation:</b>	Para-aramid (AR) fibre and derived products
<b>Chemical nature of product:</b>	Poly-(paraphenylene-terephthalamide) CAS number: 26125-61-1 (with finish and traces of water)

#### IMPORTANT NOTICE

All statements, technical information and recommendations offered are only for consideration and evaluation. Whilst they are believed to be accurate they are not guaranteed and are provided without warranty of any kind. No undertaking is given that the goods/products supplied are fit for any particular purpose and the buyer/user should rely upon its own tests to establish the suitability of the goods/products for its particular purpose. The buyer/user shall ensure all risks and liabilities in connection therewith.

## Para-Aramid Fibre products

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<b>4. FIRST AID MEASURES</b>	
<b>General advice:</b>	Treat eye damage, cuts, burns, skin irritation and other skin lesions symptomatically – like other injuries of the same kind.
<b>Inhalation (<i>fine fibrous dust</i>):</b>	Move subject to fresh air.
<b>Ingestion:</b>	No medical treatment required.

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<b>5. FIRE FIGHTING MEASURES</b>	
<b>Suitable extinguishing media:</b>	All usual fire extinguishing media are suitable.
<b>Specific hazards:</b>	None: material is flame resistant (LOI = 29%)
<b>Special protective equipment for fire-fighters:</b>	Autonomous respiratory protection to avoid inhalation of fumes in poorly ventilated areas.
<b>Special methods:</b>	None

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<b>6. ACCIDENTAL RELEASE MEASURES</b>	
<b>Personal precautions:</b>	None
<b>Environmental precautions:</b>	None

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<b>7. HANDLING AND STORAGE</b>	
<b>Handling:</b>	No particular measures are required.
<b>Technical measures/Precautions:</b>	Fibre dust and fly should be removed with approved industrial vacuum cleaning equipment. Compressed air cleaning increases airborne dust levels and must be avoided.
<b>Storage:</b>	The moisture content of pulp products must be maintained during storage. Other para-aramid products require no particular storage precautions.

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<b>8. EXPOSURE CONTROLS/PERSONAL PROTECTION</b>	
<b>Engineering measures:</b>	Use proper workplace ventilation. Avoid accumulation and discharges of static electricity in the presence of flammable/explosive materials. See local regulations. In their absence, it is recommended that the average concentration of respirable fibre-shaped particles (RFP's) derived from para-aramid products be maintained below 2 fibrils per ml of work place air.
<b>Control parameters:</b>	
<b>Personal protection equipment:</b>	
<b>Respiratory protection:</b>	Respirators – only if control limits are exceeded and processing conditions require it (poor ventilation, copious abrasion-induced fine dust).
<b>Hand protection:</b>	Gloves – if processing conditions require.
<b>Eye protection:</b>	Goggles with side shields – if processing conditions require.
<b>Hygiene measures:</b>	None.

## Para-Aramid Fibre products

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Multi-filament yarn, staple fibre, fabrics, floc and/or pulp.
<b>Colour:</b>	Golden yellow
<b>Odour:</b>	None
<b>Melting point/range:</b>	Does not melt
<b>Decomposition temperature:</b>	Carbonisation/pyrolysis start above 300-350°C
<b>Solubility in water:</b>	Not soluble
<b>Solubility in organic solvents:</b>	Not soluble
<b>Content of solvents:</b>	None
<b>Relative density:</b>	1.44-1.45g/cm <sup>3</sup> (@20°C)

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### 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Para-aramid products are highly resistant to chemicals and heat.
<b>Conditions to avoid:</b>	Strong acids/bases
<b>Hazardous decomposition products:</b>	Small quantities of carbon monoxide, ev. Also traces of nitrogen oxides and hydrocyanic acid.

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### 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	LD50 > 7500 mg/kg orally in the rat.
<b>Sensitization:</b>	None
<b>Chronic Toxicity:</b>	A 2-year inhalation study with rats using specially prepared respirable fibrous dust did not result in any lung damage at 2.5 respirable fibre-shaped particles (RFP)/ml. The onset of fibrotic changes in the lung were barely detectable at concentrations of 25 RFP/ml. At extremely high concentrations (100 and 400 RFP/ml) the rats developed unequivocal signs of lung overloading and fibroses. At these concentrations some of the female rats (but none of the males) also developed benign proliferative keratin (horn) cysts, in addition to fibroses, in the lung.
<b>Human experience:</b>	Airborne coarse para-aramid fibre dust can cause a transitory, mild irritation of the skin, the mucosa and/or the eyes. There are no other known negative effects on man.

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### 12. ECOLOGICAL INFORMATION

<b>Mobility</b>	Not applicable.
<b>Persistence and degradability:</b>	Para-aramid products are stable, persistent and resist bacterial degradation.
<b>Bioaccumulations:</b>	Not applicable.
<b>Ecotoxicity effects:</b>	None.

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### 13. DISPOSAL CONSIDERATIONS

<b>Uncontaminated product:</b>	Can be disposed of as solid waste or incinerated in a suitable installation – subject to local regulations.
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### 14. TRANSPORT INFORMATION

Para-aramid products (articles) are **not dangerous** in terms of national international transportation regulations.

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### 15. REGULATORY INFORMATION

These products are not regulated by EU Directive 67/548, as amended, nor by 199/45/EG, nor by any derived national statutes and they do not need to be labelled.

In some countries the workplace exposure to respirable fibre-shaped particles (RFP's) – that can be formed during abrasive processing of para-aramid products – is regulated. In France, Spain and the Netherlands the concentration of these RFP's should not exceed an average of 1 fibril/ml during an 8-hour day, in the UK and OES of 0.5 fibril/ml is applicable.

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### 16. OTHER INFORMATION

Please note that finish is applied to most fibres and yarns as a processing aid. This finish and most overlay finishes, sizes, or waxes can be removed in an aqueous medium if this becomes necessary. The fibre manufacturer's recommendations for processing and use should be followed.

It is recommended that additional information be requested if an unusual application of synthetic fibres is intended.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

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