

Resistance to chemicals of some of the artificial fibres used in the manufacture of personal fall protection equipment

Chemical		Polyamide		Polyester	
		20°C	60°C	20°C	60°C
Acetic acid	50%	L	C	N	N
Acetone		N	N	L	C
Ammonia gas		-	-	L	C
Ammonia solution	25%	C	C	C	C
Aniline		L	L	-	-
Aviation fuel (115/145 Octane)		N	N	N	N
Benzene		N	N	N	L
Brine (saturated)		N	L	N	L
Carbon dioxide gas		L	L	N	N
Carbon tetrachloride		N	N	N	N
Chlorine gas		D	D	-	-
Chlorine water		N	L	N	N
Chromic acid	1%	D	D	L	C
Ethylene glycol		N	-	N	-
Glycerine		N	N	N	N
Hydrochloric acid	10%	C	C	L	L
Hydrofluoric acid	10%	D	D	D	D
Hydrogen peroxide	3%	D	D	L	C
Hydrogen sulphide		N	L	L	L
Lanolin		N	N	N	N
Lubricating oil		N	N	N	N
Meat juices		N	N	N	N
Methanol		N	L	N	N
Methyl ethyl ketone		N	-	N	-
Motor oil		N	N	N	N
Naphthalene		N	-	N	L
Nitric acid	10%	D	D	N	L
Nitrobenzene		C	D	D	D
Phosphoric acid	25%	D	D	L	C
Phenol	5%	C	D	L	C

The heightec Group Ltd, Lake District Business Park, Mint Bridge Road, Kendal, Cumbria, LA9 6NH, UK

Tel: +44 (0) 1539 728866

 Email: admin@heightec.com Web: heightec.com


Training division: heightec - The National Access and Rescue Centre – Aberdeen, Birmingham, Kendal, Leeds, London

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Silicone oil		N	N	N	N
Sodium hydroxide	10%	N	N	L	C
	50%	L	C	D	D
Sodium hypochlorite	0.25%Cl	-	-	N	N
Sulfuric acid	10%	C	D	L	C
Sulfur dioxide		D	D	L	C
Toluene		N	N	N	N
Transformer oil		N	N	N	N
Trichloroethylene		N	N	N	N
Turpentine		N	N	N	N
Urine		N	L	N	N
White spirit		N	N	N	N
Xylene		N	N	N	N

N: Negligible; L: Limited effect; C: Considerable effect; D: Dissolves or decomposes

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Company no. 03435385

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VAT No. 698 1128 04