Blizzard Protection Systems Limited

Technical specifications and risk analysis:

Blizzard Survival Heat Blanket

Product Name

Blizzard Survival Heat Blanket

Manufacturers Name and Address

Blizzard Protection Systems Limited

Unit’s 2 and 3 Coed y Parc Industrial Estate

Bethesda, Gwynedd, LL57 4YY

United Kingdom

Manufacturing sites

Address listed above

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Product Specifications

1. Product Title

Blizzard Survival Heat Blanket

Manufacturer product number: BH-01 – Heat green (Pantone 449C)
BH-03 – Heat orange

NSN Number:

Green 6515-01-532-8056
Orange 7210-99-858-2053

Harmonisation Code: 3824-90-97-99

2. Description

A high performance insulating blanket with front and side access, an integral hood and 4 sets of oxygen activated heat pads for the protection from cold, wind and rain for casualties. It is also an effective aid in the prevention and treatment of hypothermia.

Blizzard Survival products are used extensively by the US Military and are recommended in the PHTLS handbook for treatment of trauma victims and the prevention and treatment of hypothermia.

Product made of Reflexcell™: expanding 3-layer metallised OPP film.

3. Features & Options

Cocoon style with complete head and foot coverage with adjustable closures.

Heat coverage with 4 large oxygen-activated heating pads. Each pad contains Fast heating cells and Slow heating cells.

Full body access seams (centre and both sides) for easy access to patient whilst maintaining body temperature. Complete foot coverage with adjustable closures.

- Colour Options : Green or Orange

- Set of 4 replacement pads with Velcro option

4. End Use - with appropriate EN

EN340:2003 Protective Clothing

5. Fabric(s) Name / Composition / Certification

Name	Product	Composition	Weight	Certification	MSDS
Toggle	Mini Ellipse(Flattened Profile) Plastic Spring - Black Acetal	Acetal – a crystalline thermoplastic polymer material	<5%	DuPont REACH Statement	Y
Plain OPP film perforated to P1	25 micron plain OPP film, perforated to P1o-extruded transparent film	Co-extruded transparent film	>5%	ISO 9001:2000,	N
Metallised OPP film, perforated to P1	25 micron metallised OPP film, perforated to P1	High glossy transparent, metallised, sealable film	>5%	ISO 9001:2000	N
Metallised OPP film, printed in colour	20 micron metallised OPP film print two colours	high glossy transparent, metallised, sealable film	>5%	ISO 9001:2000	N
Print	Ink for printing on spun bound				N
Heat pocket envelope outer	50gsm white spun bound polypropylene	Non woven spun bound and composite structures produced from polypropylene and polyethylene with coloured pigments and additives accepted by the Oeko-Tex Association	<5%	Oeko-Tex Standard 100	N
Hem	Black opaque PE SWS 200mm x 40mu	LLD Ethylene/1-Butene Copolymer	<5 %	SABIC REACH Statement	Y
Rubber yarn	90 ends to the inch optical white 40 ends natural rubber yarn	Natural rubber(polyisoprene) from centrifuged latex concentrate. Rubber compounding. Silicone based coating. Talcum Powder	<5%	ISO9022	Y
Heat pads	Disposable body warmer	Outer bag :Polychlorinated vinylidene coated Polypropylene film. Inner Bag: Polyethylene film ,	>5%		Y

		Nylon unwoven fabric Powder : iron powder, water, vermiculite, activated carbon, sodium chloride			
Bags	170mu LP Vacuum Pouches	Co-extrusion PA/PE film	<5%	Certificate of Conformity	N
Velcro adhesive tape	Permanent synthetic rubber resin adhesive	Double coated pressure sensitive adhesive tape	<5%	Directive 1999/45/EC	Y
Bungee Cords	3mm black shock cord	Rubber threads and textured polyester	<5%	Oeko Certified	N
Velcro hook	Premium grade black hook 25mm x 25m	Nylon and polyester	<5%		N
Velcro loop	Premium grade black loop 25mm x 25m	Nylon and polyester	<5%		N
Gaffer tape, various colours	50mm poly-cloth tape various colours	Polyethylene laminated cloth, peel oil, natural rubber, iron oxide	<5%	ISO9001:2000	Y
Clear tape	Clear polypropylene tape, 48 and 70mm wide	Polypropylene /acrylic emulsion adhesive	<5%	ISO(001:2000	Y
Envelope inner	70 gsm TB7 100mmx40cm	Polyethelene tyrepthalate homoploymer	>5%		Y

6. Size Range - as EN 340:2003

*Packed Size : ~30cm x 25 cm x 7 cm
*Size when opened : ~Length 2.45 metres, Width 2.00 metres
Weight 1.9 kg

*Due to the nature of the materials there may be slight variation on the size of both the packed and un-packed size.

7. Risk Assessment

Legend:

1. Minimal risk
   Very low chance that the risk may occur.
2. Medium risk
   Slight chance that the risk may occur.
3. High risk
   Highly probable that the risk will occur.

A. No permanent injury should occur.
B. A possibility that permanent injury could occur
C. High probability that permanent injury will occur

Risk	Description	Probability	Prevention/solution
Suffocation	The materials can suffocate in extreme circumstances	1C	Keep the face exposed
Lifting	The materials are not designed for lifting a patient	1A	Do not lift the patient using the bag
Burning	The heat packs are oxygen activated – in an oxygen rich atmosphere they may overheat	1B	Do not allow purified oxygen to swamp the heat pads
Burning	The heat pack may burn if left in contact with skin.	1B	Do not leave the heat pads in contact with the flesh-see note below.
Heat pack failure	Heat pads may fail to activate.	1A	Check integrity of vacuum pack by eye, ensure they are in date not wet or frozen. Use additional heat pads as required
Burning	The material is flammable	3A	Keep away from flames.
Adhesive failure	The adhesive has been tested to -40°C	2A	Do not use below -40°C If adhesive fails the blanket will continue to function and can be tied or taped together with no loss of performance.
Water damage	Heat packs do not work when submerged in water	1A	Do not submerge the heat packs in water
Tearing	The blanket may be inadvertently torn	1A	Tears can be repaired using tape small tears do not effect the performance
Trip hazard	Bungee cords may cause a trip hazard	1A	Ensure bungees are tucked inside blanket
Heat pack leakage	In the unlikely event of the heat pack being torn the contents may cause irritation	1A	If leakage occurs: rinse with clean water – do not rub. If ingested; seek medical attention

Low temperature burn

The heat pads used in the Blizzard products are oxygen activated heat pads they are very safe if used correctly. Please note the following –

Do not apply directly to the skin
Do not apply pressure during use
Check pads regularly, stop using if the area under the pad feels hot or skin is red.
Do not use over the same area of skin for long periods

Do not use if you have/are -

Circulatory problems
Unable to handle/manage the heat pad.
Physically or mentally impaired.
Bad physical condition
Serious Illness
Sensitive to heat.

Whilst every effort has been made to identify potential risks the above is not exhaustive.

If further risks are identified; please notify Blizzard Protection Systems Ltd as soon as possible +44 (0)1248 600666

When used in the correct manner the Blizzard Survival Heat Blanket is a safe product