

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING****1.1 Product identifier**

Trade name	Substance name	Index Number	CAS number	Registration number
Bitrex face fit solution A and B	Mixture	N/A	N/A	N/A

**Other means of identification**

**Unique product identification code** UFI codes: solution A –PM4W-U1S6-6V00-USHM;  
Solution B – 19EW-Y1G9-4V00-N8D6

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of the Substance/Mixture	Solutions of Bitrex™ for use in face fit testing
Exposure scenarios	There are no exposure scenarios currently available or required specifically for the product or for its ingredients.
Uses advised against	None

**1.3 Details of the supplier of the safety data sheet**

<b>Company Name and Address</b>	<b>Telephone</b>	+44 (0)1573 4020800
Pyramid Travel Products	<b>Email address of the competent person responsible for the SDS</b>	technical@pyramidoutdoor.com
Solomon way, Pinnaclehill Industrial Estate, Kelso, TD5 8AU, Scotland		

**1.4 Emergency telephone number**

Pyramid Head office 01573 226901 – Monday to Friday 09:00 to 17:00

**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Classification	Hazard statements
<b>Physical and chemical hazards</b> Not classified	none
<b>Human health</b> Not classified	none
<b>Potential environmental effects</b> Not classified	none See section 9 for physicochemical information.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

Hazard symbols	none
Signal word	none
Hazard statement(s)	none    none
Precautionary statement	
Prevention	none    none
Response	none    none
Disposal	none    none
Other labelling information none	
Further information	N/A

**2.3. Other hazards**

	Does not contain any endocrine disrupting substances Fore results of PBT and vPvB assessment see section 12.5
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**SECTION 3: COMPOSITIONAL INFORMATION ON INGREDIENTS****3.1. Substances Not applicable****3.2. Mixtures**

Chemical Nature		Aqueous solution	
Hazardous component		Amount [%]	Classification (REGULATION (EC) No 1272/2008)
			Hazard class / Hazard category      Hazard statements
<b>Denatonium benzoate</b>		<0.2%	Acute Tox. 4      H302
Index No.	Not available		Acute Tox. 4      H332
CAS No.	3734-33-6		Skin irrit. 2      H315
EC No.	223-095-2		Eye Dam. 1      H318
Reach Registration No.			Aquatic chronic 3      H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures**

General advice	Never give anything by mouth to an unconscious person.
Inhalation of Vapour	Move to fresh air.
Eye contact	Rinse immediately with plenty of water.
Skin contact	Wash off with soap and plenty of water.
Ingestion	After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

**4.2. Most important symptoms and effects, both acute and delayed**

Symptoms	Inhalation: None Eye and skin contact: none Ingestion: None See Section 11 for more detailed information on health effects and symptoms
Effects	None known See Section 11 for more detailed information on health effects and symptoms

**4.3. Indication of any immediate medical attention and special treatment needed**

Treatment	Treat symptomatically. No further information available.
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**SECTION 5: FIRE FIGHTING MEASURES****5.1. Extinguishing media**

Suitable extinguishing media	The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Foam, Sand, Dry powder, Water spray and CO2
Unsuitable extinguishing media	none known

**5.2. Special hazards arising from the substance or mixture**

Specific hazards during fire fighting	Carbon oxides; Nitrogen oxides (NOx); Sulphur oxides; Combustible. Fire may cause evolution of: Sulphur oxides, nitrogen oxides Development of hazardous combustion gases or vapours possible in the event of fire (see also section 10)
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**5.3. Advice for fire-fighters**

Special protective equipment for fire-fighters	In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.
Further information	none

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions	Evacuate personnel to safe areas. Wear personal protective equipment.
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**6.2. Environmental precautions**

Environmental precautions	Prevent material from entering sewers, waterways, or low areas. If gross quantities of the product contaminate rivers and lakes or drains inform respective authorities.
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**6.3. Methods and materials for containment and cleaning up**

Methods and materials for containment and cleaning up	Dilute with water. Pick up and transfer to properly labelled containers. After cleaning, flush away traces with water. Or where applicable absorb with liquid-binding non-combustible material (sand, diatomite, acid binders, and universal binders). Keep in suitable, closed containers for disposal. Waste is not classed as hazardous. Flush away residuals with plenty of water.
Further information	Treat recovered material as described in the section 13 "Disposal considerations".

**6.4. Reference to other sections**

See Section 1 for emergency contact information.  
See Section 8 for information on personal protective equipment.  
See Section 13 for waste treatment information

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Advice on safe handling	Avoid contact with skin, eyes and clothing.
Hygiene measures	Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday.

**7.2. Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers	Store in original container. Keep tightly closed in a dry and cool place. Avoid freezing.
Advice on protection against fire and explosion	No specific advice
Further information on storage conditions	No specific advice
Advice on common storage	No specific advice

**7.3. Specific end use(s)**

Specific use(s)	No information available.
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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION	
<b>8.1. Control parameters</b>	
<b>Component: Denatonium benzoate</b>	
No exposure control exist for this substance or components	
<b>Other Occupational Exposure Limit Values</b>	
EU ELV, Short Term Exposure Limit (STEL):	none
EH40 WEL, Time Weighted Average (TWA): Gas and aerosol mists.	none
EH40 WEL, Short Term Exposure Limit (STEL): Gas and aerosol mists.	none
ELV (IE), Time Weighted Average (TWA):	none
ELV (IE), Short Term Exposure Limit (STEL):	none
<b>8.2. Exposure controls</b>	
<b>Appropriate engineering controls</b>	
None required	
Refer to protective measures listed in sections 7 and 8.	
<b>Personal protective equipment</b>	
Advice	Not required in normal use
<b>Respiratory protection</b>	
Advice	Not required in normal use
<b>Hand protection</b>	
Advice	Not required in normal use
<b>Eye protection</b>	
Advice	Not required in normal use
<b>Skin and body protection</b>	
Advice	Not required in normal use
<b>Hygiene measures</b>	
Advice	Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday.
<b>Environmental exposure controls</b>	
General Advice	If the product grossly contaminates rivers and lakes or drains inform respective authorities.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

Physical state	Liquid	pH	No data available
Colour	Clear	Kinematic viscosity	Not tested
Odour	No data	Water solubility	Completely miscible
Melting/freezing point	No data available	Partition coefficient in n-octanol/water	No data available
Initial boiling point and boiling range	No data available	Relative vapour density	No data available
Flammability (solid gas)	No data available	Relative Density	No data available
Upper and lower explosion limit	No data available	Decomposition temperature	Stable under normal conditions. Decomposes on heating.
Flash point	No data available	Particle properties	Not applicable (liquid)
Auto ignition temperature	No data available	Explosive properties	No data available
Viscosity dynamic	No data available	Vapour pressure	No data available

**9.2 Other information****9.2.1 information with regard to physical chemical classes**

Oxidising properties	No data available
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**9.2.2 other safety characteristics**

none

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

Advice	Stable under recommended storage conditions. Decomposes on heating.
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**10.2 Chemical stability**

Advice	Stable under normal conditions. Decomposes on heating.
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**10.3 Possibility of hazardous reaction**

Hazardous reactions	None known
Hazardous decomposition products	Carbon monoxide and unidentified organic compounds may be formed during combustion.

**10.4 Conditions to avoid**

Conditions to avoid	Stable under normal conditions, avoid freezing. Decomposes on heating.
Thermal decomposition	Decomposes on heating.

**10.5 Incompatible materials**

Materials to avoid	No specific advice
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SECTION 11: TOXICOLOGICAL INFORMATION	
11.1 Information on toxicological effects	
Information on Product	Bitrex™ Face fit solution
Acute toxicity	
Oral	Please find this information in the listing of the component/ components below in this MSDS
Inhalation	No data available
Dermal	Please find this information in the listing of the component/ components below in this MSDS
Irritation	
Skin Result	Please find this information in the listing of the component/ components below in this MSDS
Eyes Result	Please find this information in the listing of the component/ components below in this MSDS
Sensitisation	
Result	Please find this information in the listing of the component/ components below in this MSDS
CMR effects	
Carcinogenicity	Please find this information in the listing of the component/ components below in this MSDS
Mutagenicity	Please find this information in the listing of the component/ components below in this MSDS
Teratogenicity	Please find this information in the listing of the component/ components below in this MSDS
Reproductive toxicity	Please find this information in the listing of the component/ components below in this MSDS
Specific target organ toxicity	
Single exposure	
Remark	The substance or mixture is not classified as a specific target organ toxicant single exposure
Repeated exposure	
Remark	The substance or mixture is not classified as a specific target organ toxicant repeated exposure
Other toxic properties	
Aspiration risk	
Remark	No aspiration toxicity classification
Information on component	Denatonium benzoate (Bitrex™)
Acute toxicity	
Acute oral	LD50 - 648 mg/kg
Inhalation	LD50 – 0.2 mg/L
Dermal	LD50 - >2,000 mg/kg bw
Irritation	
Skin Result	Not irritating
Eyes Result	Severe eye irritant – rat
Sensitisation	
Result	<i>In vivo</i> assay – rat - Did not cause respiratory or skin sensitization on laboratory animals.

CMR effects	
<b>Carcinogenicity</b>	No data
<b>Mutagenicity</b>	No data
<b>Teratogenicity</b>	No data
<b>Reproductive toxicity</b>	No data
Specific target organ toxicity	
<b>Single exposure</b>	
<b>Remark</b>	No data
<b>Repeated exposure</b>	
<b>Remark</b>	No data
Other toxic properties	
<b>Aspiration risk</b>	
<b>Remark</b>	No aspiration toxicity classification
<b>Human experience</b>	
Excessive exposures may affect human health, as follows:	
<b>Inhalation</b> no specific data	
<b>Skin contact</b> no specific data.	
<b>Eye contact</b> no specific data	
<b>Ingestion</b> no specific data	
11.2 Other information	
11.2.1 Endocrine disrupting properties	
Endocrine disruptors	Does not contain any endocrine disrupting substances
11.2.2 information on other hazards	
No other information	



SECTION 12: ECOLOGICAL INFORMATION	
12.1 Toxicity	
Information on components	Denatonium benzoate (Bitrex™)
Acute toxicity	
Fish	EC50: 96h; <i>S. gairdneri</i> : >1,000 mg/l
Toxicity to Daphnia and other invertebrates	EC50: 96h; <i>Cragon sp.</i> : 400mg/l EC50: 48h; <i>Daphnia magna</i> : >500mg/l
Algae	No data
Bacteria	No data
12.2 Persistence and Degradability	
Information on component	Denatonium benzoate (Bitrex™)
Biodegradability	
Result	No data
12.3 Bioaccumulation Potential	
Information on component	Denatonium benzoate (Bitrex™)
Bioaccumulation	
Result	No data
12.4 Mobility in soil	
Information on component	Denatonium benzoate (Bitrex™)
Mobility	
Soil	No data
12.5 Results of PBT and vPvB assessment	
Results of PBT and vPvB assessment	
Result	This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).
12.6 endocrine disrupting properties	
Does not have endocrine disrupting properties	
12.7 Other adverse effects	
Additional ecological Information	
No data is available on the product itself.	
Information on component	Denatonium benzoate (Bitrex™)
No further information	

**SECTION 13: DISPOSAL CONSIDERATION****13.1 Waste treatment methods**

<b>Product</b>	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste.
<b>Contaminated packaging</b>	Empty remaining contents thoroughly. They can be recycled after thorough cleaning. Packaging that cannot be cleaned are to be disposed of in the same manner as the product. Dispose of in accordance with local regulations.
<b>European Waste Catalogue Number</b>	No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

**SECTION 14: TRANSPORT INFORMATION****14.1 UN Number**

None

**14.2 Proper shipping name**

ADR

None

RID

None

IMDG

None

**14.3 transport hazard class(es)**

ADR

(Labels, Classification code, Hazard Identification No., Tunnel restriction code)

None

RID

(Labels, Classification code, Hazard Identification No.)

None

IMDG

(Labels EmS)

None

**14.4 Packing Group**

ADR

None

RID

None

IMDG

None

**14.5 Environmental Hazards**

ADR Labelling according to 5.2.1.8

None

RID Labelling according to 5.2.1.8

None

IMDG Labelling according to 5.2.1.6.3

None

IMDG Classification as environmentally hazardous according to 2.9.3 as

None

**14.6 Special precaution for user**

Not applicable

**14.7 Transport in Bulk according to annex II/MARPOL 73/78 and IBC code**

IMDG

Not applicable

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.2 Chemical safety assessment**

No Chemical Safety Assessment have been carried out for the components as yet by their suppliers

**SECTION 16: OTHER INFORMATION****Issue information**

First issued 10/01/2014  
Authorised By K Ferguson

Last revised 13/08/2024 Issue 2  
Authorised by K Edwards

**Significant changes at this revision**

Section 1.1 UFI codes added; Section 1.3 company details updated; Section 9.1 updated; Section 9.2 updated; Section 11.2 added; section 12.6 updated; section 12.7 added;

**Full text of H- phrases for ingredients in section 2 and 3**

H302 harmful if swallowed  
H315 causes skin irritation  
H318 causes serious eye irritation  
H332 harmful if inhaled  
H412 harmful to aquatic life with long-lasting effects

EU Directives	Dangerous preparations directive (67/548/EEC) (1999/45/EC) Safety Data sheets directive (2001/58/EC) Biocides directive REACH directive(2004/58/EC) CLP regulations (2008/1272/EC)
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Since the users working conditions are not known by us, the information on this safety data sheets is based on our current level of knowledge and on national and community regulations

The product must not be used for any purpose other than those specified in heading 1 without first obtaining written handling instructions

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirement and local regulations.

The information given on this data sheet must be regarded as relating to the safety requirements relating to our products and not a guarantee of its properties

Observe all National, Federal and Local laws / Bylaws with regard to the use of this product. Always check with relevant regulatory authorities before use

**Disclaimer**

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