SECTION 1 – PRODUCT AND COMPANY

TRADE NAME: BURNSHIELD
DOSAGE FORM: DRESSINGS OF VARIOUS SIZES:
- 100mm x 100mm
- 200mm x 200mm
- 600mm x 400mm
- 600mm x 450mm FACE MASK
- 200mm x 450mm FACE MASK
- 25mm x 0.5m (digits)
- 50mm x 1.0m (limbs)
APPLICATION: EMERGENCY TREATMENT OF ALL TYPES OF BURN WOUNDS
DESCRIPTION: POLYURETHANE DRESSING WETTED WITH BURNSHIELD GEL CONTAINED IN A MULTILAYERED ALUMINIUM POUCH

SECTION 2 – HAZARDS IDENTIFICATION

NO HAZARDS ARE IDENTIFIED FOR USE, STORAGE OR TRANSPORTATION OF BURNSHIELD DRESSINGS.

SECTION 3 – FIRST AID MEASURES

GENERAL: NONE
INHALATION: NONE – MOVE AWAY FROM SOURCE
SKIN CONTACT: IF SLIGHT IRRITATION OCCURS, RINSE WITH WATER AND STOP USE
INGESTION: NONE
INFORMATION TO HEALTH PERSONNEL: THE LD50 HAS BEEN ESTABLISHED TO BE IN EXCESS OF 10G/KG BODY WEIGHT, THUS POSING A VERY LOW POTENTIAL RISK
MORE INFORMATION: BURNSHIELD GEL IS COMPOSED MAINLY OF WATER AND IS VERY LOW HEATH RISK. A SLIGHT SKIN IRRITATION (SKIN REDDENING TO BE OBSERVED IF PATIENT IS ALLERGIC TO THE GEL).

SECTION 4 – FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHER: ALL TYPES SUITABLE
UNSUITABLE EXTINGUISHER MEDIA: NONE
FIRE AND EXPLOSION HAZARDS: NONE
PERSONAL PROTECTION WHEN FIREFIGHTING: FIREFIGHTERS TO BE AWARE THAT BURNING POLYURETHANE RESULTS IN GAS TOXIC FUMES. MASKS TO BE WORN.
SPECIAL FIREFIGHTING PROCEDURES: NONE
**SECTION 5 – ACCIDENTAL SPILLAGE MEASURES**

| PERSONAL PRECAUTIONS | NONE |
| ENVIRONMENTAL PRECAUTIONS | NONE |
| CLEANING MEASURES | RINSE WITH WATER |
| GENERAL | BURNSHIELD GEL IS WATER SOLUBLE AND IS EASILY RINSED. DO NOT BURN THE POLYURETHANE FOAM AS THIS WILL RESULT IN TOXIC FUMES. |

**SECTION 6 - HANDLING AND STORAGE**

| SPECIAL PRECAUTIONS | NONE |
| HANDLING | NO SPECIAL PRECAUTIONS |
| STORAGE | PROTECT FROM EXTREME TEMPERATURES. |
| OTHER INFORMATION | THE BURNSHIELD DRESSINGS ARE SUPPLIED IN A STERILE STATE. SPECIAL PRECAUTIONS SHOULD BE OBSERVED TO ENSURE THAT THE PACKAGING IS NOT DAMAGED DURING STORAGE AND HANDLING. |

**SECTION 7 – EXPOSURE CONTROL/PERSONAL PROTECTION**

| EXPOSURE | NONE |
| RESPIRATORY PROTECTION | NONE |
| EYE PROTECTION | NONE |
| HAND PROTECTION | NONE |
| SKIN PROTECTION | NONE |

**SECTION 8 – PHYSICAL AND CHEMICAL PROPERTIES**

| FORM | POLYURETHANE DRESSING WETTED WITH BURNSHIELD GEL |
| COLOUR OF GEL | WHITE TO COLOURLESS |
| ODOUR OF GEL | OF TEA TREE OIL |
| DENSITY | APPROX 1.000 AT 20°C |
| VISCOSITY | MINIMUM 5000cPs (BROOKFIELD – SPINDLE 6;20rpm) |
| BOILING POINT | APPROX 106°C |
| PH | 5.5 – 7.5 |
| AUTO IGNITION TEMP | WILL NOT AUTO-IGNITE |
| SOLUBILITY IN WATER | 100% SOLUBLE IN WATER |
## BURNSHIELD DRESSINGS

<table>
<thead>
<tr>
<th>Pages</th>
<th>3 of 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSDS NO:</td>
<td>01b</td>
</tr>
<tr>
<td>REVISION NO:</td>
<td>08</td>
</tr>
<tr>
<td>ORIGINAL DATE:</td>
<td>October 1999</td>
</tr>
<tr>
<td>REVISION DATE:</td>
<td>21 January 2015</td>
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</tbody>
</table>

### SECTION 9 – STABILITY AND REACTIVITY

**Stability**: BURNSHIELD GEL IS VERY STABLE THROUGH A WIDE RANGE OF TEMPERATURES AND HUMIDITY

**Reactivity**: WILL NOT REACT WITH OTHER SUBSTANCES. WILL DISSOLVE OTHER WATER SOLUBLE CHEMICALS WHEN IN CONTACT.

**Hazardous Decomposition Products**: NONE

**Other Information**: BURNSHIELD GEL IS STABLE FOR MINIMUM 5 YEARS. NO HARMFUL DEGRADATION PRODUCTS HAVE BEEN ESTABLISHED. WATER SOLUBLE SUBSTANCES MAY DISSOLVE WHEN IN CONTACT WITH BURNSHIELD GEL. BURNSHIELD GEL IS COMPRised MAINLY OF WATER AND WILL THUS CONDUCT ELECTRICITY.

### SECTION 10 – TOXICOLOGICAL INFORMATION

**General**: BURNSHIELD GEL HAS BEEN ESTABLISHED AS BEING NON-TOXIC

**Inhalation**: NON-TOXIC

**Skin Contact**: NON-TOXIC

**Eye Contact**: NON-TOXIC

**Ingestion**: LOW RISK – LD50 MORE THAN 10G/KG BODY WEIGHT

**Chronic Effects**: NONE

**Sensitisation**: HYPERSENSITIVE SKINS MAY DEVELOP A SLIGHT SKIN REDDENING ON CONTACT

**Mutagenicity**: NONE

**Cancer**: NONE

**Reproduction**: NO EFFECTS

**Other Toxicological Information**: NO OTHER TOXICOLOGICAL EFFECTS KNOWN

**Oral Toxicity**: LOW RISK – LD50 MORE THAN 10G/KG BODY WEIGHT

**Dermal Toxicity**: NONE

**Inhalation Toxicity**: NONE

### SECTION 11 – ECOLOGICAL INFORMATION

**Mobility**: NOT APPLICABLE

**Biodegradability**: PRODUCT IS TOTALLY BIODEGRADABLE OR RECYCLABLE

**Accumulation**: NO EFFECTS

**Ecotoxicity**: NONE

**Other Effects**: NONE
BURNSHIELD DRESSINGS

SECTION 12 - DISPOSAL

DECONTAMINATION/DISPOSAL: NO SPECIAL PRECAUTIONS, CAN BE FLUSHED DOWN THE DRAIN
DISPOSAL GROUP: NOT APPLICABLE
OTHER EFFECTS: NONE

SECTION 13 – TRANSPORT INFORMATION

ROAD: NO SPECIAL PRECAUTIONS
RAILWAY: NO SPECIAL PRECAUTIONS
SEA: NO SPECIAL PRECAUTIONS
AIRPLANE: NO SPECIAL PRECAUTIONS

SECTION 14 – REGULATORY INFORMATION

BURNSHIELD DRESSINGS ARE PRODUCTS USED IN THE EMERGENCY TREATMENT OF ALL TYPE OF BURNS AND SCALDS. IT IS CLASSIFIED AS A MEDICAL DEVICE.

SECTION 15 – OTHER INFORMATION

FOR FURTHER INFORMATION CONTACT: M. DI DOMENICO
1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier
Bioguard Hand & Surface Wipes

1.2 Relevant Use(s)/misuse(s)
Hand & Surface cleaner and disinfectant. Suitable for food use tested to EN1276 EN1275. Food safe & non-tainting. Meets EHO & FSA standards.

1.3 SDS Supplier
Bioguard Hygiene Solutions Ltd.

1.3.1 Manufacturer
Bioguard Hygiene Solutions Ltd.
64a St James Mill Rd
St James
Northampton NN5 5JP

1.4 Emergency Telephone
+44(0)1604 592048 (office hours)

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE MIXTURE

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)
Not classified

2.1.2 Classification according to EC Directive 67/548/EEC (CHIP 4)
Not classified

2.1.3 Additional information
See section 16 for full text of H statements and R phrases.

2.2 LABELLING ELEMENTS

2.2.1 Labelling in accordance with EC Directive 67/548/EEC (CHIP 4)

Physicochemical:
ACCORDING TO EXPERIENCE, THE PRODUCT IS CONSIDERED TO HAVE NO ADVERSE PHYSICOCHEMICAL PROPERTIES IF HANDLED IN THE CORRECT MANNER.

Health:
ACCORDING TO EXPERIENCE, THE PRODUCT IS CONSIDERED TO HAVE NO ADVERSE AFFECTS ON HEALTH IF HANDLED IN THE CORRECT MANNER.

Environmental:
ACCORDING TO EXPERIENCE, THE PRODUCT IS CONSIDERED TO HAVE NO ADVERSE ON THE ENVIRONMENT IF HANDLED IN THE CORRECT MANNER.

SAFETY PHRASES NONE.
Product Name: Alcohol Free Hand & Surface Wipes  
SDS Ref. BHS002c

2. HAZARDS IDENTIFICATION

Pictogram(s): NONE  
Signal word NONE

Hazard statement(s) NONE
Precautionary statement(s) NONE

2.3 OTHER HAZARDS NONE

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation AQUEOUS MIXTURE OF ORGANIC SUBSTANCES

<table>
<thead>
<tr>
<th>Substances</th>
<th>Chemical name</th>
<th>CAS-No</th>
<th>EINECS/ELINCS</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CITRIC ACID MONOHYDRATE (1,2,3-PROPANETRICARBOXYLIC ACID)</td>
<td>5949-29-1</td>
<td>NOT ASSIGNED</td>
<td>CHIP: Xi: R36; CLP; Eye Irrit.2 H319</td>
<td>&lt; 1.0%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

4.1 Description of measures

Inhalation Not a normal route of exposure.
Skin contact Clean areas affected with soap and plenty of water. If necessary, seek medical advice
Eye contact Wash out eye thoroughly with plenty of water until irritation subsides. If necessary, consult an eye specialist/ophthalmologist.
Ingestion If product is swallowed, do NOT induce vomiting. If conscious, drink plenty of water. If necessary, seek medical advice.

4.2 Most important effects/symptoms None known.

4.3 Immediate/special treatment Treatment as described above.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media To suit local surroundings (e.g. water spray, carbon dioxide, foam or chemical powder) Do not use strong water jets

5.2 Special hazards None known.

5.3 Advice for fire fighters Wear self-contained breathing

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions Use suitable protective equipment (see section 8)

6.2 Environmental precautions Do not flush wipe material down the drain and into waste water. Dispose of wipe material through normal waste systems. Do not allow to get into waste water or waterways in large quantities; if this occurs, inform the relevant water authority at once.

6.3 Methods and materials for cleaning up Take up excess liquid with absorbent material, e.g. sand, sawdust into tightly closable containers. Label container and dispose of as prescribed.
6. ACCIDENTAL RELEASE MEASURES

6.4 Reference to other sections
See section 8 for personal protective equipment.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Handle in accordance with good hygiene and safety practice.

7.2 Conditions for safe storage
Keep containers closed, cool, dry and away from heat

7.3. Specific end use(s)
Surface cleaner and disinfectant

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Controls parameters
No OEL data are available. Comply with good practice.

8.2 Exposure controls
Engineering controls
Provide adequate ventilation (e.g. local exhaust ventilation).

Personal protection
Observe normal standards for handling chemicals.
Wash hands before breaks and after work.
Wear personal protective equipment appropriate to the task (see below)

Eye protection
Safety goggles if risk of eye contamination.

Skin protection
Only for prolonged contact and If necessary, impervious gloves (but consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)

Respiratory protection
Respirator – not normally required.

Other protection
Protective overalls

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Basic physical and chemical properties
Physical form
Impregnated wipe

Colour
White cloth with a Liquid is a clear to straw coloured

Odour
Characteristic

Odour threshold
Not determined

pH
6.5-7.0

Boiling pt / range
Approx. 100 °C

Melting pt / range
Approx. 0 °C

Flash point
Not applicable °C

Flammability
Not applicable

Thermal decomposition
Not applicable

Evaporation rate
Not applicable

Explosion limits
Not determined
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition temp.</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.01-1.025</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not applicable</td>
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<tr>
<td>Vapour density</td>
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<tr>
<td>Water solubility</td>
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</tr>
<tr>
<td>Explosive properties</td>
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<tr>
<td>Oxidising properties</td>
<td>Not determined</td>
</tr>
<tr>
<td>Partition coeff. $\text{Log}_{\text{Oct/water}}$</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

9.2 Other information

None known.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Hazardous polymerisation will not occur

10.2 Chemical stability

Stable under normal conditions of handling.

10.3 Hazardous reactions

None known.

10.4 Conditions to avoid

None known.

10.5 Incompatible material

None known.

10.6 Hazardous decomposition products

Oxides of carbon

11. TOXICOLOGICAL INFORMATION

11.1 information on toxicological effects

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Acute toxicity</td>
<td>$\text{LD}_{50}$ rat (oral) $\text{mg/kg}$</td>
</tr>
<tr>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td>Dermal compatibility</td>
<td></td>
</tr>
<tr>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td>Mucous membrane compatibility</td>
<td></td>
</tr>
<tr>
<td></td>
<td>No data available</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

12.1 Toxicity

$\text{LC}_{50}$ Aquatic organisms $\text{mg/l}$ No data available

12.2 Degradability

Not determined.

12.3 Bioaccumulative potential

Not determined

12.4 Mobility in soil

Not determined

12.5 PBT/vPvB assessment

Not determined

12.6 Other adverse effects

None known.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment measures
13. DISPOSAL CONSIDERATIONS

Advice on disposal: If possible, recycle to supplier or approved recycling company. If not (e.g. designated as waste), dispose of in accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005.

Contaminated packaging: Treat empty containers in the same way as the product: if possible wash out thoroughly and recycle.

14. TRANSPORT INFORMATION

14.1 United Nations number (ADR, IMDG, IATA) Not classified
14.2 Proper shipping name (ADR, IMDG, IATA) Not classified
14.3 Transport class(s) (ADR, IMDG, IATA) Not classified
14.4 Packing group (ADR, IMDG, IATA) Not classified
14.5 Environmental hazards (ADR, IMDG, IATA) The product should NOT be marked as a marine pollutant.
14.6 Special procedures (ADR, IMDG, IATA) Not applicable
14.7 Transport in bulk (ADR, IMDG, IATA) Not applicable

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations The product is classified in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations (CHIP 4) and EC Regulation 1272/2008 (CLP). Other regulatory information and provisions are not applicable for this product.
15.2 Chemical safety assessment Not applicable

16. OTHER INFORMATION

Further information

Risk phrases/ hazard statements referred to in sections 2/3
R36: Irritating to eyes.
H319: Causes serious eye irritation.

Sources of data Other suppliers’ safety data sheets

Date of issue 24-09-2013

This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific properties.
| **Product Name:** | Alcohol Free Hand & Surface Wipes | **SDS Ref.:** | BHS002c |

Safety data sheet prepared by Rising HS&E Services.