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| <br><b>山东海燕医用材料制造有限公司</b><br>Shandong Haiyan Medical Manufacture Co.,Ltd | <b>SOP#</b>                              | <b>HY-MSDS-001</b> |
|  | <b>Revision:</b>                         | <b>C/0</b>         |
|  | <b>Issue Date:</b>                       | <b>2019-07-11</b>  |
| <b>Title:</b>  | <b>MSDS Alcohol Prep Pad Non-Sterile</b> |                    |
| <b>Prepared By:</b>  | <b>Evan Zhou</b>                         | <b>Page 1 of 7</b> |

**MATERIAL SAFETY DATA SHEET**  
Complies with OSHA's Hazard Communication Standard (29 CFR 1910. 1200)

|   |  |   |            |
|---|--|---|------------|
| <b>PRODUCT NAME</b><br>(as it appears on label) | <b>MSDS Alcohol Prep Pad Non-Sterile</b>   | <b>DESCRIPTION:</b> Topical skin antiseptic |            |
| <b>MARKETED BY:</b>                             | No.1 Haiyan road , Xintai City ,Shandong ,China  | <b>DATE PREPARED:</b>                       | 2019-07-11 |
|   |  | <b>PREPARED BY:</b>                         | Evan Zhou  |
| <b>HEALTH HAZARDS:</b>                          | Causes drying, cracking and irritation of skin. Eye irritation.<br>Inhalation can cause irritation of upper respiratory tract, drowsiness, fatigue, headache, low blood pressure, loss of coordination, respiratory depression, kidney damage. Contact a <b>POISON CONTROL CENTER</b> if ingested. |   |            |
| <b>PHYSICAL HAZARDS:</b>                        | Flammability, avoid contact Strong Oxidizing agents,Acids, Acid anhydride, Halogen   |   |            |
| <b>PHYSICAL FORM:</b>                           | Non-woven saturated with 70% isopropyl alcohol, Non-Sterile  |   |            |
| <b>APPEARANCE:</b>                              | Clear colourless   |   |            |
| <b>ODOR:</b>                                    | Alcohol odor   |   |            |
| <b>HMIS RATING</b><br>(concentrate)             | <b>HEALTH: 0 REACTIVITY: 0 FLAMMABILITY: 0 PERSONAL: 0</b>   |   |            |
| <b>HAZARD RATING:</b>                           | 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Extreme A = Safety Glasses B =Safety Glasses & Gloves  |   |            |

**SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS**

| <b>HAZARDOUS COMPONENTS</b><br>(Specific Chemical Identity:<br>Common Names) | <b>CAS #'s</b> | <b>OSHA PEL</b> | <b>ACHIH TLV</b> | <b>Other Limits Recommended</b> | <b>% (Optional)</b> |
|--|----------------|-----------------|------------------|---------------------------------|---------------------|
| Isopropyl Alcohol  | 67-63-0        |                 |                  |                                 | 70%                 |
| Water  | 7732-18-5      |                 |                  |                                 | 30%                 |
|  |                |                 |                  |                                 |                     |
|  |                |                 |                  |                                 |                     |
|  |                |                 |                  |                                 |                     |

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N/A = Not Applicable    N/E = Not Established    N/D = Not Determined    N/L = Not Listed

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

### SECTION 3 - HAZARDS IDENTIFICATION (Potential Health Effects)

|   |  |
|---|--|
| <b>EYE:</b>                             | Irritating, and will injure eye tissue if not removed promptly.  |
| <b>SKIN:</b>                            | ·Low order of toxicity<br>·Frequent or prolonged contact may defat and dry the skin, leading to discomfort and and dermatitis .  |
| <b>INHALATION (BREATHING):</b>          | Vapour concentrations above recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, could be anesthetic and may have other central nervous system effects. |
| <b>INGESTION (SWALLOWING):</b>          | Small amount of liquid aspirated into the respiratory system during ingestion or from vomiting may cause man pneumonia or pulmonary edema.   |
| <b>SIGNS AND SYMPTOMS:</b>              | Take by mouth may cause nausea, vomiting, stomach pains, diarrhea, coma or death   |
| <b>CANCER:</b>                          | N/A  |
| <b>TARGET ORGANS:</b>                   | N/A  |
| <b>DEVELOPMENTAL:</b>                   | N/A  |
| <b>OTHER COMMENTS:</b>                  | N/A  |
| <b>PRE-EXISTING MEDICAL CONDITIONS:</b> | N/A  |

### SECTION 4 - FIRST AID MEASURES

|                                |   |
|--------------------------------|---|
| <b>Eyes:</b>                   | Immediately flush eyes with large amount of water for at least 15 minutes. Get prompt medium attention. |
| <b>SKIN:</b>                   | ·N/A  |
| <b>INHALATION (BREATHING):</b> | ·N/A  |

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|                                |   |
|--------------------------------|---|
| <b>INGESTION (SWALLOWING):</b> | ·If swallowed, induce vomiting. Keep at rest. Get prompt medical attention. |
| <b>NOTE TO PHYSICIANS:</b>     | ·Keep victim warm and quiet.  |

**SECTION 5 - FIREFIGHTING MEASURES**

|  |   |
|--|---|
| <b>FLAMMABLE PROPERTIES:</b>                 | Flash Point: 25.6 degree celsius (for liquid)   |
|  | OSHA Flammability Class: 3 (for Isopropyl alcohol)  |
|  | LEL/UEL: 2.0/12.7(vol%) (for Isopropyl alcohol)   |
|  | Auto ignition Temperature: 399 degree celsius(for Isopropyl alcohol)  |
| <b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b> | N/A   |
| <b>EXTINGUISHING MEDIA:</b>                  | Water spray, foam dry chemical or carbon dioxide  |
| <b>FIREFIGHTING INSTRUCTIONS:</b>            | <ul style="list-style-type: none"> <li>· Use water spray to cool fire exposed surfaces and to protect personnel. Shut off fuel to fire. If a leak or spill has not ignited, use water spray to disperse the vapours and to protect men attempting to stop a leak.</li> <li>· Either allow fire to burn under controlled conditions or extinguish with alcohol type foam or dry chemical. Try to cover liquid spills with foam.</li> <li>· Spill fires may be extinguished by flooding with large amounts of water.</li> </ul> |

**SECTION 6- ACCIDENTAL RELEASE MEASURES**

|                             |                                 |
|-----------------------------|---------------------------------|
| <b>IF SPILLED/RELEASED:</b> | ·Eliminate sources of ignition. |
|-----------------------------|---------------------------------|

**SECTION 7- HANDLING AND STORAGE**

|                                |   |
|--------------------------------|---|
| <b>HANDLING &amp; STORAGE:</b> | <ul style="list-style-type: none"> <li>·Keep container closed. Handle containers with care. Store in a cool, well-ventilated place away from incompatible materials.</li> <li>·Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight.</li> <li>·This material is not a static accumulator but use proper bonding and/or grounding procedures.</li> </ul> |
|--------------------------------|---|

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|  | <p>·Do not pressurize, cut, heat, or weld containers. Empty product containers may contain product residue.</p> <p>·Do not reuse empty containers without commercial cleaning or reconditioning.</p> |
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**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

|                                    |  |
|------------------------------------|--|
| <b>ENGINEERING CONTROLS:</b>       | The use of mechanical dilution ventilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures or otherwise to maintain ambient concentration below the recommended threshold exposure limited. Use explosion-proof ventilation equipment.  |
| <b>RESPIRATORY PROTECTION:</b>     | Where concentrations in air may exceed the limits given in this section, it is recommended to use a half face filter mask to protect from overexposure by inhalation. Suitable filter material depends on the amount and type of chemicals being handled in the workplace, but filter material of type "A" or similar may be considered for use. |
| <b>SKIN PROTECTION:</b>            | N/A  |
| <b>EYE/FACE PROTECTION:</b>        | N/A  |
| <b>OTHER PROTECTIVE EQUIPMENT:</b> | No smoking, keep good health habits  |

**SECTION 9 - PHYSICAL / CHEMICAL PROPERTIES**

|   |  |
|---|--|
| <b>Note: Unless otherwise stated, values are determined at 20 degrees Celsius (68 degrees Fahrenheit) and 760 mm Hg (1 atm)</b> |  |
| <b>FLASH POINT:</b>   | 25.6 degree celsius (for liquid)               |
| <b>FLAMMABLE/EXPLOSIVE LIMITS (%):</b>  | LEL/UEL: 2.0/12.7 vol% (for isopropyl alcohol) |
| <b>AUTO IGNITION TEMPERATURE:</b>   | 399 degree celsius (for isopropyl alcohol)     |
| <b>APPEARANCE:</b>  | Clear colourless                               |
| <b>PHYSICAL STATE:</b>  | Liquid   |
| <b>ODOR:</b>  | Alcohol odor                                   |
| <b>pH:</b>  | Not available                                  |
| <b>VAPOR PRESSURE (mm Hg):</b>  | Not available                                  |
| <b>BOILING POINT:</b>   | Not available                                  |

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|                                    |                                 |
|------------------------------------|---------------------------------|
| <b>FREEZING/MELTING POINT:</b>     | Not available                   |
| <b>SOLUBILITY IN WATER:</b>        | 100 wt% (for isopropyl alcohol) |
| <b>SPECIFIC GRAVITY:</b>           | 0.85-0.88                       |
| <b>EVAPORATION RATE (nBuAc=1):</b> | Not available                   |

### SECTION 10 - STABILITY & REACTIVITY

|  |   |
|--|---|
| <b>CHEMICAL STABILITY:</b>               | Stable  |
| <b>CONDITIONS TO AVOID:</b>              | N/A   |
| <b>INCOMPATIBLE MATERIALS:</b>           | Strong Oxidizing agents, acids, acid anhydride, halogen |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> | N/A   |
| <b>HAZARDOUS POLYMERIZATION:</b>         | N/A   |

### SECTION 11 - TOXICOLOGICAL INFORMATION

Oral (rat) LD50: 5045 mg/kg (for isopropyl alcohol)      Skin (rabbit): 12800 mg/kg (for isopropyl alcohol)

### SECTION 12 – ECOLOGICAL INFORMATION

#### ENVIRONMENTAL MOBILITY

- This product is water soluble and is expected to remain primarily in water.

#### ENVIRONMENTAL DEGRADABILITY

- This product biodegrades rapidly and is “readily” biodegradable according to OECD guidelines.
- This substance is expected to be removed in a wastewater treatment facility.

#### ECOTOXICITY AND BIOACCUMULATION

- Low acute toxicity to aquatic organisms is expected.

### SECTION 13 - DISPOSABLE CONSIDERATIONS

|   |  |                    |
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The following advice only applies to the product as supplied.

Combination with other material may well indicate another route or disposal. If in doubt, contact the local Authorities.

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licenced contractor.

Care should in any case be taken to ensure compliance with national and local regulations.

This product is NOT suitable for disposal by either landfill or via municipal powers, drains, natural streams or rivers.

This product is ashless and can be burned directly in appropriate equipment.

This product should be disposed of in accordance with all applicable local and national regulations and to dispose of containers with care.

This material, as supplied, is not hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine, whether the altered material is hazardous waste. Consult appropriate state, regional, or local regulations for additional requirements.

Dispose of in accordance with local regulations.

#### **SECTION 14 - TRANSPORT INFORMATION**

The substance is not subject to IMO IMDG Code according to special provision 216.

#### **SECTION 15 - REGULATORY INFORMATION**

##### **COMPONENT**

|                             |  |
|-----------------------------|--|
| <b>GOVERNING DIRECTIVE:</b> | Dangerous Substances Directive 67/548/EC, as modified. |
|-----------------------------|--|

##### **Warning:**

S07/09 Keep container tightly closed and in a well ventilated place

S16 Keep away from sources of ignition-No Smoking

S24/25 Avoid contact with wound and eyes .

S26 In case of contact with eyes, flush immediately with plenty of water and seek medical advice

S33 Take precautionary measures against static discharges

S43B In case of fire, use sand, earth, chemical powder or alcohol type foam

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|   |  |
|---|--|
| <b>EPA (CERCLA) Reportable Quantity:</b>              |  |
| <b>SECTION 16 - OTHER INFORMATION</b>                 |  |
| <b>ISSUE DATE:</b>                                    |  |
| <b>PREVIOUS ISSUE DATE:</b>                           |  |
| <b>PRODUCT CODE:</b>                                  |  |
| <b>DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES</b> | <p>The product information contained in this Material Safety Data Sheet was collected from various supplier sources. All product claims and specifications are those of Shandong Haiyan Medical Product LLC's suppliers and may not have been independently verified by Shandong Haiyan. Shandong Haiyan is not responsible for errors or omissions in, or completeness of, the product information. Shanndong Haiyan Medical ALL WARRANTIES OF ANY KIND OR NATURE, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF THE SUITABILITY OR FITNESS OF ANY PRODUCT FOR A PARTICULAR PURPOSE</p> |