

AMSINO.

MATERIAL SAFETY DATA SHEET

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| PRODUCT NAME (as it appears on label) | Benzalkonium Chloride (BZK) Swab | DESCRIPTION: First Aid antiseptic to help prevent infection in minor cuts, scrapes and burns |
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| ISSUED BY: | Ivy Jiang <i>Zvy Jiang</i> | DATE PREPARED: PREPARED BY: | 2022.06.07 |
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| HEALTH HAZARDS: | Not classified |
| PHYSICAL HAZARDS: | Not classified |
| PHYSICAL FORM: | Wet tissue saturated with BZK |
| APPEARANCE: | Clear, colorless |
| ODOR: | Characteristic |

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| HMS RATING (concentrate) | HEALTH: 2 | REACTIVITY: 0 | FLAMMABILITY: 3 | PERSONAL: 0 |
| HAZARD RATING: | 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Extreme A = Safety Glasses B = Safety Glasses & Gloves | | | |

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

| HAZARDOUS COMPONENTS (Specific Chemical Identity: Common Names) | CAS #'s | OSHA PEL | ACHIH TLV | Other Limits Recommended | % (Optional) |
|---|----------------|-----------------|------------------|---------------------------------|---------------------|
| BZK | 68391-01-5 | | | | 0.5 |
| Sodium Bicarbonate | 144-55-8 | | | | 0.05 |
| Purified Water | 7732-18-5 | | | | 99.45 |
| Concentration in solution | | | | | |
| BZK | | | | | 0.13 |

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.

PACKING MATERIAL

| Tree Level | Part Name | CAS# | Quantity | Weight(g) | Portion % |
|-------------------|------------------|-------------|-----------------|------------------|------------------|
| 1 | Non-woven | / | 1 | 0.08 | 9.6 |
| 2 | Foil Film | / | / | 0.41 | 49.4 |
| 3 | Solution | / | / | 0.34 | 41.0 |

SECTION 3 - HAZARDS IDENTIFICATION (Potential Health Effects)

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| EYE: | Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists. |
| SKIN: | ·Low order of toxicity ·Frequent or prolonged contact may defat and dry the skin leading to discomfort and dermatitis. |
| INHALATION (BREATHING): | Vapor concentrations above recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, could be |

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| | anesthetic and may have other central nervous system effects. |
| INGESTION (SWALLOWING): | Small amount of liquid aspirated into the respiratory system during ingestion or from vomiting may cause man pneumonia or pulmonary edema. |
| SIGNS AND SYMPTOMS: | Take by mouth may cause nausea, vomiting, stomach pains, diarrhea, coma or death |
| CANCER: | N/A |
| TARGET ORGANS: | N/A |
| DEVELOPMENTAL: | N/A |
| OTHER COMMENTS: | N/A |
| PRE-EXISTING MEDICAL CONDITIONS: | N/A |

SECTION 4 - FIRST AID MEASURES

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| Eyes: | Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists. |
| SKIN: | In case of skin irritation, discontinue use of product. |
| INHALATION (BREATHING): | Move to fresh air. If symptoms persist, obtain medical attention. |
| INGESTION (SWALLOWING): | Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person Get prompt medical attention. |
| NOTE TO PHYSICIANS: | Symptoms may be delayed |

SECTION 5 - FIREFIGHTING MEASURES

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| FLAMMABLE PROPERTIES: | N/A |
| UNUSUAL FIRE & EXPLOSION HAZARDS: | N/A |
| EXTINGUISHING MEDIA: | Use carbon dioxide or dry chemical for small fires, alcohol type foam for large fires. |
| FIREFIGHTING INSTRUCTIONS: | <p>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 vapors and to protect men attempting to stop a leak.</p> <p>·Either allow fire to burn under controlled conditions or extinguish with alcohol type foam or dry chemical. Try to cover liquid spills with foam.</p> <p>·Spill fires may be extinguished by flooding with large amounts of water.</p> |

SECTION 6- ACCIDENTAL RELEASE MEASURES

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| IF SPILLED/RELEASED: | ·Eliminate sources of ignition. |
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SECTION 7- HANDLING AND STORAGE

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| HANDLING & STORAGE: | <p>·Keep container closed. Handle containers with care. Store in a cool, well-ventilated place away from incompatible materials.</p> <p>·Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight.</p> |
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| | <ul style="list-style-type: none"> ·This material is not a static accumulator but use proper bonding and/or grounding procedures. ·Do not pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. ·Do not reuse empty containers without commercial cleaning or reconditioning. |
| SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION | |
| ENGINEERING CONTROLS: | 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. |
| RESPIRATORY PROTECTION: | 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. |
| SKIN PROTECTION: | N/A |
| EYE/FACE PROTECTION: | Protective eyewear |
| OTHER PROTECTIVE EQUIPMENT: | No smoking, keep good health habits |
| SECTION 9 - PHYSICAL / CHEMICAL PROPERTIES | |
| Note: Unless otherwise stated, values are determined at 20 degrees Celsius (68 degrees Fahrenheit) and 760 mm Hg (1 atm) | |
| DENSITY | 0.989 g/cm ³ |
| BOILING POINT | 100°C |
| MELTING POINT | -5°C |
| MOLECULAR FORMULA | C ₂₂ H ₄₀ ClN |
| FLASHING POINT: | > 100°C |
| APPEARANCE: | Clear, colorless |
| PHYSICAL STATE: | Liquid |
| WATER SOLUBILITY | Miscible with water, methanol and acetone. |
| ODOR: | Characteristic |
| pH: | Not available |
| VAPOR PRESSURE (mm Hg): | Not available |
| FREEZING/MELTING POINT: | Not available |
| EVAPORATION RATE (nBuAc=1): | Not available |
| SECTION 10 - STABILITY & REACTIVITY | |
| CHEMICAL STABILITY: | Stable under recommended storage conditions |
| CONDITIONS TO AVOID: | Do not mix with other chemicals. |
| INCOMPATIBLE MATERIALS: | Caustics, acids, oxidizers |
| HAZARDOUS DECOMPOSITION PRODUCTS: | May include and are not limited to: oxides of carbon; hydrogen chloride. |
| HAZARDOUS POLYMERIZATION: | Will not occur. |
| SECTION 11 - TOXICOLOGICAL INFORMATION | |

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| Eye | May cause irritation |
| Skin | In case of skin irritation, discontinue use of the product. |
| Inhalation | Not a normal route of exposure. May cause respiratory tract irritation. |
| Ingestion | Not a normal route of exposure. May cause stomach distress, nausea or vomiting. |

SECTION 12 – ECOLOGICAL INFORMATION

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| 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 waste water treatment facility. |
| ECOTOXICITY AND BIOACCUMULATION | · Low acute toxicity to aquatic organisms is expected. |

SECTION 13 - DISPOSABLE CONSIDERATIONS

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 licensed 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 ash free 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.

Dispose of in accordance with local regulations.

SECTION 14 - TRANSPORT INFORMATION

U.S. Department of Transportation (DOT) No regulated as dangerous goods.

Transportation of Dangerous Goods(TDG-Canada) Not regulated as dangerous goods.

SECTION 15 - REGULATORY INFORMATION

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| COMPONENT | |
| GOVERNING DIRECTIVE: | Dangerous Substances Directive 67/548/EC, as modified. |

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| Warning: | |
| S07/09 | Keep container tightly closed and in a 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 |

EPA (CERCLA) Reportable Quantity:

SECTION 16 - OTHER INFORMATION

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| DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES | The product information contained in this Material Safety Data Sheet was collected from various supplier sources. All product claims and specifications are those of Amsino |
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Material: BZK Swab
Approved/Revised: 2022.06.07

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