



**Iontophoresis Drug Delivery Electrode Kit
Safety Data Sheet According to (EC) No 1907/2006
(Global Harmonised System – GHS)**

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|-------------------|---|---|------------------|----------------|-------------------|---------|
| 3 | Composition / Information on Ingredients | <p>Alcohol Swabs</p> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">Component</td> <td style="text-align: center;">CAS-No.</td> </tr> <tr> <td style="text-align: center;">Isopropyl Alcohol</td> <td style="text-align: center;">67-63-0</td> </tr> </table> | Component | CAS-No. | Isopropyl Alcohol | 67-63-0 |
| Component | CAS-No. | | | | | |
| Isopropyl Alcohol | 67-63-0 | | | | | |
| 4 | First Aid Measures | <p>Alcohol Swabs</p> <p>Skin: If rash or skin irritation develops, discontinue use.</p> <p>Eyes: Flush with cool water for 15 minutes.</p> <p>Inhalation: Remove to fresh air.</p> <p>Ingestion: Consult physician.</p> | | | | |
| 5 | Fire Fighting Measures | <p>Alcohol Swabs</p> <p>Extinguishing media: Dry chemical or alcohol type foam, carbon dioxide.</p> <p>Special fire fighting procedures: Handle as flammable liquid.</p> <p>Unusual fire and explosion hazards: Class 3 Flammability.</p> | | | | |
| 6 | Accidental Release Measures | <p>Alcohol Swabs</p> <p>Spill Control: Eliminate all sources of ignition.</p> | | | | |
| 7 | Handling and Storage | <p>Alcohol Swabs</p> <p>Store in cool, dry place.</p> <p>Store away from heat and sources of ignition.</p> | | | | |
| 8 | <p>Exposure Controls</p> <p>Personal Protection</p> <p>Environmental Exposure Controls</p> | <p>Alcohol Swabs</p> <p>No exposure controls required.</p> <p>Respiratory protection: None required; ventilation recommended.</p> <p>Hand protection: Protective gloves not required</p> <p>Eye protection: Only if splashing is expected</p> <p>Skin protection: Normal work wear.</p> <p>No environmental exposure controls required.</p> | | | | |
| 9 | <p>Physical and Chemical Properties</p> <p>Important Health, Safety and Environmental Information</p> | <p>Alcohol Swabs</p> <p>Towelette/pad/swab saturated with clear liquid with alcohol odor.</p> <p>Color: Clear</p> <p>Odor: Slight</p> <p>pH: Not applicable</p> <p>Boiling Point/Range: 181°F</p> <p>Flash Point: 78°F</p> <p>Vapor Pressure: Not applicable</p> <p>Solubility in Water: Complete</p> <p>Vapor Density: Not applicable</p> <p>Evaporation Rate: Not applicable</p> | | | | |

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| 10 | Stability and Reactivity | Alcohol Swabs Stability: Stable Conditions to Avoid: None Materials to Avoid: None Hazardous Polymerization: None Hazardous Decomposition Products: None |
| 11 | Toxicological Information | Alcohol Swabs Not available |
| 12 | Ecological Information | Alcohol Swabs Not available |
| 13 | Disposal Considerations | Alcohol Swabs Disposal Method: Flush spills with water. Handle as flammable liquid. Follow local, state and federal regulations. Handling & Storage: Store away from heat and sources of ignition. |
| 14 | Transport Information | Alcohol Swabs DOT Shipping Name: Consumer Commodity Technical Shipping Name: Not applicable DOT Shipping Classification: DOT-not regulated (except by boat) DOT ID No: Not applicable DOT Label Requirement: Not applicable UN/NA Number Regulations: Not applicable Reportable Quantity: Not applicable |
| 15 | Regulatory Information | Alcohol Swabs Not available. |



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| 2 | Hazards Identification | <p>Active Drug Delivery Electrode NFPA Rating: Health: 0 Flammability: 1 Reactivity: 0 Routes of Entry: Skin contact. Carcinogenic Status: None known. Target Organs: None. Health Effects – Eyes: Avoid eye contact. Health Effects – Skin: No adverse effects are expected. Health Effects – Ingestion: Not an expected route of entry during normal handling and use, do not ingest. Health Effects – Inhalation: No adverse effects expected during normal handling and use.</p> | | | | | | | | |
| 3 | Composition / Information on Ingredients | <p>Active Drug Delivery Electrode</p> <table border="0"> <tr> <td>Component</td> <td>CAS-No.</td> </tr> <tr> <td>Cellulosic/polyester/Polyolefin</td> <td>Not Applicable</td> </tr> <tr> <td>Absorbent Web</td> <td>(Mixture)</td> </tr> <tr> <td>Acrylate Adhesive</td> <td>Trade Secret</td> </tr> </table> <p>Trade Secret: The exact percentage (concentration) of composition has been withheld as a trade secret.</p> | Component | CAS-No. | Cellulosic/polyester/Polyolefin | Not Applicable | Absorbent Web | (Mixture) | Acrylate Adhesive | Trade Secret |
| Component | CAS-No. | | | | | | | | | |
| Cellulosic/polyester/Polyolefin | Not Applicable | | | | | | | | | |
| Absorbent Web | (Mixture) | | | | | | | | | |
| Acrylate Adhesive | Trade Secret | | | | | | | | | |
| 4 | First Aid Measures | <p>Active Drug Delivery Electrode Skin: No health effects are expected. Eyes: No health effects are expected. Inhalation: No health effects are expected. Ingestion: If ingestion occurs, see a physician.</p> | | | | | | | | |
| 5 | Fire Fighting Measures | <p>Active Drug Delivery Electrode Extinguishing media: Water spray, dry chemical, foam or carbon dioxide</p> <p>Special fire fighting procedures: Wear self-contained breathing apparatus. Wear full protective clothing.</p> <p>Unusual fire and explosion hazards: May release hazardous vapors during a fire.</p> <p>Cellulosic/polyester/ Polyolefin Absorbent Web: Combustible solid.</p> | | | | | | | | |
| 6 | Accidental Release Measures | <p>Active Drug Delivery Electrode Cleanup: Dispose in waste container.</p> | | | | | | | | |
| 7 | Handling and Storage | <p>Active Drug Delivery Electrode Store in cool, dry place. Avoid contact with eyes.</p> | | | | | | | | |



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| 8 | <p>Exposure Controls</p> <p>Personal Protection</p> <p>Environmental Exposure Controls</p> | <p>Active Drug Delivery Electrode No exposure controls required</p> <p>Respiratory protection: Not applicable. Hand protection: Not applicable. Eye protection: Not applicable. Skin protection: Normal work wear.</p> <p>No environmental exposure controls required.</p> |
| 9 | <p>Physical and Chemical Properties</p> <p>Important Health, Safety and Environmental Information</p> | <p>Active Drug Delivery Electrode Appearance: Fibrous, spongy electrode with paper liner (solid)</p> <p>Color: White Odor: Slight acrylic odor pH: Not applicable Boiling Point/Range: Not applicable Flash Point: 230°C (Cellulosic/polyester/Polyolefin Absorbent Web) Flammability: Not applicable Explosion Properties: Not applicable Oxidizing Properties: Not applicable Vapor Pressure: Not applicable Relative Density: Not applicable Solubility: Not applicable Solubility in Water: Not applicable Partition coefficient: Not applicable n-octanol/water: Not applicable Viscosity: Not applicable Vapor Density: Not applicable Evaporation Rate: Not applicable</p> |



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| 10 | Stability and Reactivity | Active Drug Delivery Electrode Stability: Stable under normal conditions. Conditions to Avoid: Heat – High temperatures. Materials to Avoid: None known. Hazardous Polymerization: Will not occur. Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, oxides of nitrogen, ammonia, and Acetaldehyde. |
| 11 | Toxicological Information | Active Drug Delivery Electrode Not applicable. |
| 12 | Ecological Information | Active Drug Delivery Electrode Not applicable. |
| 13 | Disposal Considerations | Active Drug Delivery Electrode Dispose of in accordance with all applicable local and national regulations. |
| 14 | Transport Information | Active Drug Delivery Electrode DOT: Not regulated for transport. TDG: Not regulated for transport. IMDG/IMO: Not regulated for transport. ARD/RID: Not regulated for transport. |
| 15 | Regulatory Information | Active Drug Delivery Electrode TSCA: All components are registered or exempt. |

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| 2 | Hazards Identification | <p>Buffered Return Electrode (Buffer Hydrogel) NFPA Rating: Health: 1 Fire: 0 Reactivity: 0</p> <p>EU Main Hazards: Not classified as hazardous.</p> <p>Routes of Entry: Skin contact.</p> <p>Carcinogenic Status: Not considered a carcinogen under OSHA, ACGIH, NTP, or IARC guidelines.</p> <p>Target Organs: None.</p> <p>Health Effects – Eyes: Avoid eye contact.</p> <p>Health Effects – Skin: No adverse effects are expected.</p> <p>Health Effects – Ingestion: Not an expected route of entry during normal handling and use, do not ingest.</p> <p>Health Effects – Inhalation: No adverse effects expected during normal handling and use.</p> | | | | | | | | | | | | |
|--------------------------------|--|---|-----------|---------|--------------------|------------|---------------------|------------|--------------------------------|----------|------------------|---------|---------------------------|------------|
| 3 | Composition / Information on Ingredients | <p>Buffered Return Electrode (Buffer Hydrogel)</p> <table border="0"> <thead> <tr> <th align="left">Component</th> <th align="left">CAS-No.</th> </tr> </thead> <tbody> <tr> <td>Polyquaternium #22</td> <td>53694-17-0</td> </tr> <tr> <td>Polyethylene Glycol</td> <td>25322-68-3</td> </tr> <tr> <td>Ethylenedinitrilotetrapropanol</td> <td>102-60-3</td> </tr> <tr> <td>Methyl Sulfoxide</td> <td>67-68-5</td> </tr> <tr> <td>Poly(acrylate) Co-polymer</td> <td>28062-44-4</td> </tr> </tbody> </table> <p>Trade Secret: The exact percentage (concentration) of composition has been withheld as a trade secret.</p> | Component | CAS-No. | Polyquaternium #22 | 53694-17-0 | Polyethylene Glycol | 25322-68-3 | Ethylenedinitrilotetrapropanol | 102-60-3 | Methyl Sulfoxide | 67-68-5 | Poly(acrylate) Co-polymer | 28062-44-4 |
| Component | CAS-No. | | | | | | | | | | | | | |
| Polyquaternium #22 | 53694-17-0 | | | | | | | | | | | | | |
| Polyethylene Glycol | 25322-68-3 | | | | | | | | | | | | | |
| Ethylenedinitrilotetrapropanol | 102-60-3 | | | | | | | | | | | | | |
| Methyl Sulfoxide | 67-68-5 | | | | | | | | | | | | | |
| Poly(acrylate) Co-polymer | 28062-44-4 | | | | | | | | | | | | | |
| 4 | First Aid Measures | <p>Buffered Return Electrode (Hydrogel)</p> <p>Skin: If a skin irritation develops, discontinue use. Obtain medical treatment as needed.</p> <p>Eyes: If eye contact occurs, flush with water for fifteen minutes. Obtain medical attention if soreness or redness persists.</p> <p>Inhalation: Seek medical attention if symptoms occur.</p> <p>Ingestion: If ingestion occurs, see a physician.</p> <p>Advice to Physicians: Treat symptomatically.</p> | | | | | | | | | | | | |
| 5 | Fire Fighting Measures | <p>Buffered Return Electrode (Hydrogel)</p> <p>Extinguishing media: Water spray, carbon dioxide, dry chemical or appropriate foam.</p> <p>Special firefighting procedures: Wear self-contained breathing apparatus.</p> <p>Unusual fire and explosion hazards: May release hazardous vapors during a fire.</p> | | | | | | | | | | | | |

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| 6 | Accidental Release Measures | Buffered Return Electrode (Hydrogel) No specific measures necessary. |
| 7 | Handling and Storage | Buffered Return Electrode (Hydrogel) Keep tightly closed to prevent evaporation of water. Store in cool, dry place. Keep away from heat. |
| 8 | Exposure Controls Personal Protection Environmental Exposure Controls | Buffered Return Electrode (Hydrogel) No exposure controls required. Respiratory protection: None required. Hand protection: None required under normal use. Eye protection: Use safety glasses. Skin protection: Normal work wear. No environmental exposure controls required. |
| 9 | Physical and Chemical Properties Important Health, Safety and Environmental Information Return Electrode Hydrogel | Buffered Return Electrode (Hydrogel) The hydrogel is a yellow viscoelastic gel cast on a PET (polyethylene terephthalate) liner. Color: Yellow Odor: Slight pH: 6.2 (+/- 1.0) Boiling Point/Range: Not applicable Flash Point: Not applicable Flammability: Not applicable Explosion Properties: Not applicable Oxidizing Properties: Not applicable Vapor Pressure: Not applicable Relative Density: Not applicable Solubility: Not applicable Solubility in Water: Not applicable Partition coefficient: Not applicable n-octanol/water: Not applicable Viscosity: Not applicable Vapor Density: Not applicable Evaporation Rate: Not applicable |

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| 10 | Stability and Reactivity | <p>Buffered Return Electrode (Hydrogel)</p> <p>Stability: Stable under normal conditions.</p> <p>Conditions to Avoid: Heat – High temperatures.</p> <p>Materials to Avoid: None known.</p> <p>Hazardous Polymerization: Will not occur.</p> <p>Hazardous Decomposition</p> <p>Products: Carbon monoxide, carbon dioxide, oxides of nitrogen, and oxides of sulfur.</p> |
| 11 | Toxicological Information | <p>Buffered Return Electrode (Hydrogel)</p> <p>Return electrode using buffer hydrogel has passed ISO 10993-1 requirements for skin contact. It demonstrated no cytotoxicity, no irritation, and no sensitization upon skin contact.</p> <p>Acute Toxicity: Low order of acute toxicity.</p> <p>Chronic Toxicity/ Carcinogenicity: Not expected to cause long term adverse health effects.</p> <p>Genotoxicity: Not expected to cause any mutagenic effects.</p> <p>Reproductive / Development Toxicity: Not expected to cause adverse reproductive effects.</p> |
| 12 | Ecological Information | <p>Buffered Return Electrode (Hydrogel)</p> <p>Ecotoxicity</p> <p>Aquatic Toxicity: No relevant studies identified.</p> <p>Soil Toxicity: No relevant studies identified.</p> <p>Micro-Macro Organisms Toxicity: No relevant studies identified.</p> <p>Sewage Treatment Plant Impact: No relevant studies identified.</p> <p>Mobility: No relevant studies identified.</p> <p>Persistence and Degradability: No relevant studies identified.</p> <p>Bioaccumulative Potential: No relevant studies identified.</p> <p>Mobility: No relevant studies identified.</p> <p>Persistence and Degradability: No relevant studies identified.</p> <p>Bio-Accumulation: No relevant studies identified.</p> <p>CSA Report: Not applicable.</p> |



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| 13 | Disposal Considerations | Buffered Return Electrode (Hydrogel) Dispose of in accordance with all applicable local and national regulations. |
| 14 | Transport Information | Buffered Return Electrode (Hydrogel) DOT CFR 172.101: Not regulated. UN Shipping Name: Not regulated. UN Class: None. UN Number: None. UN Packaging Group: None. Consult the appropriate national/local regulators for transport by: IMDG (sea) ADR (road) RID (rail) ICAO/IATA (air) |



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| 15 | Regulatory Information | <p>Buffered Return Electrode (Hydrogel)</p> <p>EU Label Information</p> <p>Directive 67/548/EEC: Classification and labeling have been performed per directive; not applicable.</p> <p>Directive 1999/44/EC: Classification and labeling have been performed per directive; not applicable.</p> <p>EC Annex I Classification: This product is not classified.</p> <p>R Phrases: None.</p> <p>S Phrases: None.</p> <p>US Regulations (Federal, State) and International Chemical Registration Laws</p> <p>Chemical Safety Assessment (CSA-EU) is not required for hydrogel.</p> <p>EINECS Listing: All ingredients in this product have not been verified for listing on the European Inventory of Existing Commercial Chemical Substances (EINECS). This product is considered an article.</p> <p>Canadian Workplace Hazardous Materials Information System (WHMIS): This product is not listed.</p> <p>OSHA or EPA regulations: This product is not considered hazardous.</p> <p>California Proposition 65: This product does not contain any materials which the State of California has found to cause cancer, birth defects or other reproductive harm.</p> <p>TSCA Listing: This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Inventory. This product is considered an article.</p> |
| 16 | Other Information | <p>Prepared by: Axelgaard Manufacturing Co., Ltd. Regulatory Affairs Department Prepared on: August 17, 2017</p> <p>The above information is believed to be correct, but does not purport to be all-inclusive and shall be used only as a guide. Axelgaard Manufacturing Company, Ltd. shall not be held liable for any damage resulting from the handling of or contact with the above product. License granted to make unlimited paper copies of this SDS for internal use only.</p> |