

1	Identification of Substance/Preparation	Name: Intended Use:	Iontophoresis Drug Delivery Electrode Kit Administration of soluble salts or other drugs into the body for medical purposes; can be used as an alternative to hypodermic injection.
		Components:	Alcohol Swabs Active Drug Delivery Electrode Buffered Return Electrode
	Company Identification		Axelgaard Manufacturing Co., Ltd. 520 Industrial Way Fallbrook, CA 92028-2244 USA
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	Emergency Telephone		+1 (760) 451-8000 Office Hours Only: Monday – Thursday 7:00 am – 5:30 pm PST
		Product Provided	d as a Kit. Component elements identified below.
2	Hazards Identification	Alcohol Swabs NFPA Rating:	Health: 1 Flammability: 3 Reactivity: 0
		Chemical Name:	Isopropyl Alcohol
		Routes of Entry:	Skin contact.
		Carcinogenic Sta	atus: None known.
		Target Organs:	None.
		Health Effects –	
		Health Effects –	,
		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.

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

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



2	Hazards Identification	Active Drug Delivery B NFPA Rating:	Electrode 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 – Ingesti	on: Not an expected route of entry during normal handling and use, do not ingest.
		Health Effects – Inhalat	ion: No adverse effects expected during normal handling and use.
3	Composition / Information	Active Drug Delivery I	Electrode
	on Ingredients	Component	CAS-No.
		Cellulosic/polyester	
		Absorbent Web Acrylate Adhesive	(Mixture) Trade Secret
		Acrylate Auriesive	Trade Secret
		Trade Secret: The exact been withheld as a trade	ct percentage (concentration) of composition has e secret.
4	First Aid Measures	Active Drug Delivery	Electrode
		Skin:	No health effects are expected.
		Eyes:	No health effects are expected.
		Inhalation:	No health effects are expected.
		Ingestion:	f ingestion occurs, see a physician.
5	Fire Fighting Measures	Active Drug Delivery	Electrode
		Extinguishing media: \	Water spray, dry chemical, foam or carbon dioxide
		f	Wear self-contained breathing apparatus. Wear full protective clothing.
		Unusual fire and explosion hazards:	May release hazardous vapors during a fire.
		Cellulosic/polyester/ Polyolefin Absorbent W	eb: Combustible solid.
6	Accidental Release	Active Drug Delivery I	Electrode
	Measures	Cleanup:	Dispose in waste container.
7	Handling and Storage	Active Drug Delivery I	Electrode
		Store in cool, dry place.	
		Avoid contact with eyes.	



8	Exposure Controls	Active Drug Delivery Electrode  No exposure controls required	
	Personal Protection	Respiratory protection: Hand protection: Eye protection: Skin protection:	·
	Environmental Exposure Controls	No environmental expo	osure controls required.
9		Active Drug Delivery	Electrode
	Physical and Chemical Properties	Appearance:	Fibrous, spongy electrode with paper liner (solid)
	Important Health, Safety	Color:	White
	and Environmental	Odor:	Slight acrylic odor
	Information	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



10	Stability and Reactivity	Active Drug Delivery Elec	trode
		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 Elec	trode
		Not applicable.	
12	Ecological Information	Active Drug Delivery Elec	trode
		Not applicable.	
13	Disposal Considerations	Active Drug Delivery Elec	trode
		Dispose of in accordance w regulations.	vith all applicable local and national
14	Transport Information	Active Drug Delivery Elec	trode
		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 Elec	trode
		TSCA:	All components are registered or exempt.



2	Hozordo Idontification	Buffered Return Electrode (Buffer Hydrogel)	
2	Hazards Identification	NFPA Rating:	Health: 1 Fire: 0 Reactivity: 0
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		EU Main Hazards:	Not classified as hazardous.
		Routes of Entry:	Skin contact.
		Carcinogenic Status:	Not considered a carcinogen under OSHA, ACGIH, NTP, or IARC guidelines.
		Target Organs:	None.
		Health Effects – Eyes:	Avoid eye contact.
		Health Effects – Skin:	No adverse effects are expected.
		Health Effects – Ingest	on: Not an expected route of entry during normal handling and use, do not ingest.
		Health Effects – Inhala	tion: No adverse effects expected during normal handling and use.
3	Composition / Information on Ingredients	Buffered Return Elect	rode (Buffer Hydrogel)
		Component	CAS-No.
		Polyquaternium #22	
		Polyethylene Glycol	
		Ethylenedinitrilotetra	•
		Methyl Sulfoxide Poly(acrylate) Co-po	67-68-5 olymer 28062-44-4
		Foly(acrylate) Co-pt	20002-44-4
		Trade Secret: The exact been withheld as a trace	ct percentage (concentration) of composition has le secret.
4	First Aid Measures	Buffered Return Elect	
			itation develops, discontinue use. Obtain
			eatment as needed.
			act occurs, flush with water for fifteen minutes. dical attention if soreness or redness persists.
		Inhalation: Seek med	ical attention if symptoms occur.
			n occurs, see a physician.
		Advice to Physicians: T	
5	Fire Fighting Measures	Buffered Return Elect	
			Water spray, carbon dioxide, dry chemical or appropriate foam.
		Special firefighting	
			Wear self-contained breathing apparatus.
		Linuarial fire and	
		Unusual fire and explosion hazards:	May release hazardous vapors during a fire.
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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.  Buffered Return Electrode (Hydrogel)	
	Exposure Controls	No exposure controls r	
	Personal Protection	Respiratory protection: Hand protection: Eye protection: Skin protection:	None required. None required under normal use. Use safety glasses. Normal work wear.
	Environmental Exposure Controls	No environmental exposure controls required.	
9	Physical and Chemical Properties	Buffered Return Electrode (Hydrogel) The hydrogel is a yellow viscoelastic gel cast on a PET (polyethylene terephthalate) liner.	
	Important Health, Safety and Environmental Information Return Electrode Hydrogel	Color: Odor: pH: Boiling Point/Range: Flash Point: Flammability: Explosion Properties: Oxidizing Properties: Vapor Pressure: Relative Density: Solubility: Solubility in Water: Partition coefficient: n-octanol/water: Viscosity: Vapor Density: Evaporation Rate:	Yellow Slight 6.2 (+/- 1.0) Not applicable



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

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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 nat	tional/local regulators for transport by: IMDG (sea) ADR (road) RID (rail) ICAO/IATA (air)



15	Regulatory Information	Buffered Return Electrode (Hydrogel)	
		EU Label Information	
		Directive 67/548/EEC:	Classification and labeling have been performed per directive; not applicable.
		Directive 1999/44/EC:	Classification and labeling have been performed per directive; not applicable.
		EC Annex I Classification:	This product is not classified.
		R Phrases:	None.
		S Phrases:	None.
		US Regulations (Federal, Registration Laws	State) and International Chemical
		Chemical Safety Assessme	nt (CSA-EU) is not required for hydrogel.
		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.
		Canadian Workplace Hazardous Materials Information System (WHMIS):	This product is not listed.
		OSHA or EPA regulations:	This product is not considered hazardous.
		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.
		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.
16	Other Information	Prepared by: Axelgaard Ma Department Prepared on: August 17, 20	nufacturing Co., Ltd. Regulatory Affairs 17
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