

Safety Data Sheet

1. Product and Company Identification

Product Identifier	
Product Name:	Calcium Electrode
Product Code:	AV-BP0360D
Recommended Use:	The Calcium Electrode is intended to be used with the Smartlyte Electrolyte Analyzer in a near-patient testing environment to measure Calcium ion concentration of samples in diagnosis and in monitoring.
<u>Company</u>	Diamond Diagnostics Inc. 333 Fiske Street Holliston, MA 01746
Company Phone Number Email	508-429-0450 support@diamonddiagnostics.com
Emergency Telephone No:	508-429-0450
2. Hazards Identification	
GHS- Classification	
Classification	Short-term (acute) aquatic hazard (Category 2), H401 Long-term (chronic) aquatic hazard (Category 3), H412
Hazard Pictograms:	
Signal word	None
Hazard Statements H401 H412	Toxic to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary Statements P273	Prevention: Avoid release to the environment.
Storage: P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

3. Composition/Information on ingredients

Substance/mixture:

Mixture

Any concentration shown as a range is protected confidentiality.

There are no ingredients present which within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

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4. First Aid Measures

General Advice	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do No leave the victim unattended.
Skin Contact	If on skin, rinse well with water.
Inhalation	Move to fresh air.
Ingestion	After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.
Most important symptoms and effects, both acute and delayed.	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11
Indication of any immediate medical attention and special treatment needed.	No data available

5. Fire-Fighting Measures

Extinguishing Media Suitable extinguishing media:	Use extinguishing measures that are appropriate for local circumstances and the surrounding environment.
Unsuitable extinguishing media:	For this substance/mixture no limitations of extinguishing agents are given.
Special hazards arising from substance of	or mixture:
	Silver/silver oxides Not combustible. Ambient fire may liberate hazardous vapours.
Advice for Fire-Fighters	In the event of fire, wear self-contained breathing apparatus.
Further Information:	Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental Release Measures

Personnel Precautions, Protective equipment, and emergency procedures
Advice for non-emergency personnel: Avoid inhalation of dusts.
Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.Environmental PrecautionsDo not let product enter drains.Methods for Containment & Cleaning
generation of dustsCover drains. Collect, bind, and pump off spills. Observe possible material restrictions
(see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid
generation of dustsReference to other sectionsFor disposal see section 13.

7.	Handl	ing a	nd Sto	orage				
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Precautions for safe handling

For precautions see section 2

Conditions for safe storage, including any incompatibilities.

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Storage Conditions:	Tightly Closed. Dry.
Further information on storage conditions:	See label, package insert or internal guidelines.
Storage class (TRGS 510):	Storage class (TRGS 510): 13: Non-Combustible Solids
Further information on storage stability:	No decomposition if stored and applied as directed.
Specific end use(s) Specific use(s):	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure Controls / Personnel

Components	CAS-No	Value Type (Form of Exposure)	Control Parameters	Basis
Silver	7440-22-4	TWA	0.1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		PEL	0.1 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		TWA	0.1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

Exposure Controls	Change contaminated clothing. Wash hands after working with substance.
Engineering Measures	No data available
Personnel Protective Equipment Eye/Face Protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses
Skin and Body Protection:	Handle with impervious gloves. This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE- approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Respiratory Protection	required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.
Control of environmental exposure	Do not let product enter drains.

9. Physical and Chemical Properties

Physical State	Solid
Odor	Not data available
Odor Threshold	Not data available
рН	Not data available
Melting/Freezing Point	Not data available
Initial Boiling Point	Not data available
Flash Point	Not applicable
Evaporation Rate	Not data available
Flammability (solid, gas)	The product is not flammable
Upper/Lower flammability or explosive limits	Not data available



Not data available
Not data available
Not applicable
Not data available
Not data available
Not classified as explosive
None

10. Stability and Reactivity	
Reactivity	No data available
Chemical Stability	Stable under normal conditions
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	In the event of fire: see section 5
Possibility of hazardous reactions	No data available
Conditions to avoid:	No information available
11. Toxicological Information	
Mixture	

Mixture

Acute Toxicity	Oral: No data available Inhalation: No data available Dermal: No data available		
Skin corrosion/irritation	No data available		
Serious eye damage/eye irritation	No data available		
Respiratory or skin sensitization	No data available		
Germ cell mutagenicity	No data available		
Carcinogenicity	IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.		
	NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.		
	OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.		
Reproductive toxicity	No data available		
Specific target organ toxicity - single exp	bosure No data available		



Aspiration hazard	No data available
Additional Information:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.
Components	
Silver	
Acute toxicity	Oral: No data available Inhalation: No data available Dermal: No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity – repeated exposure	No data available
Aspiration hazard	No data available
silver chloride	
Acute toxicity	LD50 Oral - Rat - male and female - > 5,000 mg/kg (OECD Test Guideline 401) Inhalation: No data available Dermal: No data available
Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)
Serious eye damage/eye irritation	Eyes - Rabbit Result: No eye irritation (OECD Test Guidelin
Germ cell mutagenicity	Test Type: Micronucleus test Test system: Human lymphocytes Result: negative Remarks: (in analogy to similar products) The value is given in analogy to the following substances: Disilver(1+) sulfate Test Type: Invitro mammalian cell gene mutation test Test system: mouse lymphoma cells Result: negative Remarks: (in analogy to similar products) The value is given in analogy to the following substances: Disilver(1+) sulfate Method: OECD Test Guideline 474 Species: Rat - male and female Result: negative e 405)
Carcinogenicity	
Carcinogenicity	No data available



Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity – repeated exposure	No data available
Aspiration hazard	No data available

12. Ecological Information

Toxicity Mixture	Not data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Endocrine disrupting properties	No data available
Other adverse effects	No data available
Components:	
Silver	No data available
Silver Chloride	
Toxicity to fish	semi-static test LC50 - Pimephales promelas (fathead minnow) - 0.0012 mg/l - 96 h (US-EPA) Remarks: (referred to the cation) (in analogy to similar products) The value is given in analogy to the following substances: Silver nitrate
Toxicity to daphnia and other aquatic invertebrates	semi-static test LC50 - Daphnia magna (Water flea) - 0.00022 mg/l - 48 h Remarks: (referred to the cation) (ECHA) The value is given in analogy to the following substances: Silver nitrate
Toxicity to bacteria	static test NOEC - Bacteria - 0.025 mg/l - 13.3 min Remarks: (ECHA) (in analogy to similar products) The value is given in analogy to the following substances: Silver nitrate

13. Disposal Considerations

Waste Disposal Method Product:	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.
14. Transport Information	
DOT (US)	Not dangerous goods
IMDG	Not dangerous goods



IATA (Cargo)	Not dangerous goods	
Further information	Not classified as dangerous in the meaning of transport regulations.	
45. Domulatory Information		
15. Regulatory Information		
SARA 302 Components	This material does not contain any components with a section 302 EHS TPQ.	
SARA 313 Components	The following components are subject to reporting levels established by SARA Title III, Section 313:	
Silver	CAS-No. 7440-22-4	Revision Date 2007-07-01
Massachusetts Right To Know Components	No components are subject to the Massachusetts Right to Know Act.	
16. Other Information		

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Issuing Date	01-February-2024
Revision Date	01-February-2024
Revision Note	No information available
Recommended Restrictions	No Restrictions