



ELECTRO-CHEMICAL DEVICES

Liquid Analytical Instrumentation for Process Control

*Bringing Simplicity
to a Solution*

SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION

Trade Name: Calcium Ion Calibration Standard Solution

Product Number: Part # 2010403; 400 ppm Part # 2010405; 100 ppb Part # 2010406; 500 ppb
Part # 2010407; 10 ppm Part # 2010408; 1 ppm Part # 2010413; 0.1 ppm
Part # 2010421; 100 ppm Part # 2010423; 1000 ppm Part # 2010404; 4000 ppm

Manufactured By: Electrochemical Devices, Inc.
1681 Kettering
Irvine, CA 92614

Phone #: 1-800-692-1333

SECTION 2 – HAZARDS IDENTIFICATION

Potential Health Effects: Not a hazardous substance or mixture.

Hazard Pictograms: Not Applicable.

Signal Word: **WARNING:** May cause irritation to skin, eyes and respiratory tract. Harmful if swallowed or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing mist. Use good personal hygiene and housekeeping.

Hazard statement(s): Not a hazardous substance or mixture.

Precautionary Statement(s): Not Applicable.



HMIS rating (Scale 0-4):



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SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Ingredients:	Active ingredients:	0.3 % w/w Potassium Chloride	CAS No.	7440-09-7
		< 1 % w/w Calcium Dichloride	CAS No.	10043-52-4
		Balance De-Ionized Water	CAS No.	7732-18-8

SECTION 4 – FIRST-AID MEASURES

Frist Aid Procedure:

Eye contact: Flush eyes with water as a precaution.

Skin contact: Wash off with soap and plenty of water.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Notes to Physician: Treat symptomatically and supportively.

SECTION 5 – FIRE-FIGHTING MEASURES

Fire-Fighting Procedures:

Products of Combustion: Nature of decomposition products not known.

Fire Hazards in Presence of Various Substances: Not Available.

Fire-Fighting Media and Instructions: Use extinguishing media appropriate for surrounding fire.

Special Remarks on Fire Hazards: Not Available.

Special remarks on Explosion Hazards: Not Available.

SECTION 6 – ACCIDENTAL RELEASE MEASURES



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Spill-control Procedures:

Small Spill: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

SECTION 7 – HANDLING AND STORAGE

Precautions:

Not a hazardous substance or mixture.

Storage:

Keep container tightly closed in a dry and well-ventilated place.

Waste Disposal:

Dispose of according to local and regional authority requirements.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Provide local exhaust ventilation system. Where there is possibility of exposure, eye wash fountain and safety shower should be provided within the immediate work area for emergency use. Exposure limit: 10 mg/m³

Personal Protection:

Gloves. Lab Coat. Safety Goggles.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance:

Liquid.

Oder:

Oderless.

Molecular Weight:

Not Applicable.

Color:

Colorless.

pH (soln/water):

3.8 – 9.0

Boiling Point:

118 °C (244 °F) for 38% solution

Melting Point:

Not Available.



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Critical Temperature:	Not Available.
Specific Gravity:	0.995 g/cm ³
Vapor Pressure:	Not Available.
Vapor Density:	Not Available.
Volatility:	Not Available.
Odor Threshold:	Not Available.
Water/Oil Dist. Coeff:	Not Available.
Ionicity (in Water):	Not Available.
Dispersion Properties:	Not Available.
Solubility:	Very Soluble in water.

SECTION 10 – STABILITY AND REACTIVITY DATA

Stability:	Stable under recommended storage conditions.
Instability Temperature:	No Data Available
Conditions of Instability:	No Data Available
Hazardous Decomposition:	If liquid completely dries from fire, thermal decomposition products may include toxic and corrosive fumes of chlorine and hydrogen chloride. Product may react with some metals (aluminum, zinc, tin, etc.) to release flammable hydrogen gas.
Incompatibility:	Strong oxidizing agents, Strong acids
Corrosivity:	No Data Available
Remarks on Reactivity:	No Data Available
Remarks on Corrosivity:	No Data Available
Polymerization:	No Data Available



SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity:	No Data Available for mixture
Toxicity Data:	<i>Calcium Chloride:</i> Oral-rat LD50: 1000 mg/kg
Chronic Effects on Humans:	No Data Available
Other Toxic Effects on Humans:	No Data Available
Carcinogenicity:	<i>IARC:</i> No <i>ACGIH:</i> No <i>NTP:</i> No. <i>OSHA:</i> No

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity:	Will not biodegrade or bioaccumulate.
BOD5 and COD:	No Data Available
Products of Biodegradation:	No Data Available
Toxicity of the Products of Biodegradation:	No Data Available
Remarks on the Products of Biodegradation:	No Data Available

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Treatment Methods:	Waste must be disposed of in accordance with federal, state and local environmental regulations.
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SECTION 14 – TRANSPORT INFORMATION

DOT Classification: Not regulated as dangerous goods.

Identifications: Not dangerous goods.

Special Provisions for Transport: Not dangerous goods.

IATA: Not dangerous goods.

SECTION 15 – OTHER REGULATORY INFORMATION

Federal and State Regulations: **SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: No SARA Hazards

Other Regulations: Not applicable.

WHMIS (Canada): Not applicable.

DSCL (EEC): Not applicable.

Protective Equipment: Not applicable.

SECTION 16 – OTHER INFORMATION

References: Not applicable.

Other Special Considerations: Customers are responsible for compliance with local, state and federal regulations that may be pertinent in the storage, application and disposal of this product.

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