



# ELECTRO-CHEMICAL DEVICES

Liquid Analytical Instrumentation for Process Control

*Bringing Simplicity  
to a Solution*

## SAFETY DATA SHEET

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### SECTION 1 – PRODUCT IDENTIFICATION

**Trade Name:** CA6 Hardness Reagent #1

**Product Number:** 2010037-1

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

**Phone #:** 1-800-692-1333

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### SECTION 2 – HAZARDS IDENTIFICATION

**Potential Health Effects:** Irritant in case of skin contact, of eye contact, of ingestion, or of inhalation.



**Hazard Pictograms:**

**Signal Word:** Not applicable.

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

**Precautionary Statement(s):** Not a hazardous substance or mixture.



**HMIS rating (Scale 0-4):**



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## SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Ingredients:	Hydrochloric Acid	0.2%	CAS #: 1344-28-1
	<i>o</i> -Cresolphthalein Complexone	0.075%	CAS #: 2411-89-4
	De-Ionized Water	Balance	CAS #: 7732-18-8

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## SECTION 4 – FIRST-AID MEASURES

### Frist Aid Procedure:

**Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

**Skin contact:** Wash off with soap and plenty of water. Consult a physician.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

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## SECTION 5 – FIRE-FIGHTING MEASURES

### Fire-Fighting Procedures:

**Flammability of the Product:** Non-Flammable

**Extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special Hazards arising from the substance or mixture:** No Data Available.

**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Further information:** Do not use halocarbon extinguishers.



## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### 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 dispose of according to local and regional authority requirements.

**Environmental precautions:** Do not let product enter drains.

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## SECTION 7 – HANDLING AND STORAGE

### Precautions:

Avoid contact with skin and eyes. Avoid inhalation of vapor and mist.

### Storage:

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

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## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal Protection:

Gloves. Lab Coat. Safety Goggles.

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## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

### Physical state and appearance:

Liquid

### Odor:

Not available.

### Taste:

Not available.

### Molecular Weight:

Not available.



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<b>Color:</b>	Clear
<b>pH :</b>	~ 2.2 pH
<b>Boiling Point:</b>	100° C
<b>Melting Point:</b>	Not available.
<b>Critical Temperature:</b>	Not available.
<b>Specific Gravity:</b>	Not available.
<b>Vapor Pressure:</b>	Not available.
<b>Vapor Density:</b>	Not available.
<b>Volatility:</b>	Not available.
<b>Odor Threshold:</b>	Not available.
<b>Water/Oil Dist. Coeff:</b>	Not available.
<b>Ionicity (in Water):</b>	Not available.
<b>Dispersion Properties:</b>	Not available.
<b>Solubility:</b>	Soluble in water.

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## SECTION 10 – STABILITY AND REACTIVITY DATA

<b>Stability:</b>	Not available
<b>Instability Temperature:</b>	Not available.
<b>Conditions of Instability:</b>	Stable under recommended storage conditions.
<b>Incompatibility:</b>	Bases, Amines, Alkali metals, Metals, permanganates, e.g. potassium permanganate, Fluorine, metal acetylides, hexalithium disilicide.



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**Corrosivity:** Non-corrosive in presence of glass.

**Remarks on Reactivity:** Not available.

**Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

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## SECTION 11 – TOXICOLOGICAL INFORMATION

**Routes of Entry:** Inhalation. Ingestion. Eyes.

**Toxicity to Animals:** Not available.

**Specific target organ toxicity:** Not available.

**Carcinogenicity:** Not applicable

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:** Not available.

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## SECTION 12 – ECOLOGICAL INFORMATION

**Ecotoxicity:** LC50 - Gambusia affinis (Mosquito fish) - 282 mg/l - 96 h (Hydrochloric acid)

**BOD5 and COD:** Not available.

**Products of Biodegradation:** Not available.

**Toxicity of the Products of Biodegradation:** Not available.

**Remarks on the Products of Biodegradation:** Not available.

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## SECTION 13 – DISPOSAL CONSIDERATIONS



**Waste Treatment Methods:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Waste must be disposed of in accordance with federal, state and local environmental regulations.

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## SECTION 14 – TRANSPORT INFORMATION

**DOT Classification:** *UN number:* 3264    *Class:* 8    *Packing group:* II  
*Proper shipping name:* Hydrochloric acid, acidic, inorganic, n.o.s. (Hydrochloric acid)  
*Reportable Quantity (RQ):* 13514 lbs  
*Marine pollutant:* No  
*Poison Inhalation Hazard:* No

**IMDG:** *UN number:* 3264    *Class:* 8    *Packing group:* II EMS-No: F-A, S-B  
*Proper shipping name:* Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid)  
*Marine pollutant:* No

**IATA:** *UN number:* 3264    *Class:* 8    *Packing group:* II  
*Proper shipping name:* Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid)

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## 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:* The following components are subject to reporting levels established by SARA Title III, Section 313:

<b>Hydrochloric acid</b>	<i>CAS-No.</i> 7647-01-0	<i>Revision Date</i> 1993-04-24
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**Other Regulations:** Not applicable.

**DSCL (EEC):** Not applicable.



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**Protective Equipment:** Not applicable.

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## SECTION 16 – OTHER INFORMATION

**References:** Not applicable

**Special Considerations:** Not applicable

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