SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION

Trade Name: CA6 Hardness Reagents #2

Product Number: 2010038-1

Manufactured By: Electrochemical Devices, Inc.

1681 Kettering Irvine, CA 92614

Phone #: 1-800-692-1333

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: Danger.

Hazard statement(s): *H227:* Combustible liquid

H302 + H312 + H332: Harmful if swallowed, in contact with skin or if inhaled

H314: Causes severe skin burns and eye damage.

H412: Harmful to aquatic life with long lasting effects

Precautionary Statement(s): P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + *P312* IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + *P361* + *P353* IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

P322 Specific measures (see supplemental first aid instructions on this label).

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.



HMIS rating (Scale 0-4):

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Ingredients: Ethanolamine, ACS Reagent 20% CAS #: 141-43-5

De-Ionized Water Balance CAS #: 7732-18-

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: Take off contaminated clothing and shoes immediately. 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.

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: Carbon Oxides, Nitrogen Oxides

(NOx)

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

Further information: Use water spray to cool unopened containers.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill-control Procedures: Small Spill: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure

adequate ventilation. Remove all sources of ignition. 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: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition 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.

SECTION 7 - HANDLING AND STORAGE

Precautions: Avoid contact with skin and eyes. Avoid inhalation of vapor and mist. Keep away from

sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic

charge.

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

which are opened must be carefully resealed and kept upright to prevent leakage.

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 Googles.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance: Liquid

Oder: Not available.

Taste: Not available.

Molecular Weight:	Not available.			
Color:	Clear			
рН:	~ 2.2 pH			
Boiling Point:	170° C			
Melting Point:	10°C			
Critical Temperature:	Not available.			
Specific Gravity:	Not available.			
Vapor Pressure:	$0.3~\text{hPa}$ (0.2 mmHg) at 20 $^{\circ}$ C			
Vapor Density:	2.11 - (Air = 1.0)			
Volatility:	Not available.			
Odor Threshold:	Not available.			
Water/Oil Dist. Coeff:	Not available.			
Ionicity (in Water):	Not available.			
Dispersion Properties:	Not available.			
Solubility:	Soluble in water.			
SECTION 10 – STABILITY AND REACTIVITY DATA				
PECTION IN PIREI				

Not available

Not available.

Stability:

Instability Temperature:

Conditions of Instability:	Stable under re	ecommended	storage conditions.

Incompatibility: Strong acids and oxidizing agents, Iron, Copper, Brass, Rubber

Corrosivity: Non-corrosive in presence of glass.

Remarks on Reactivity: Not available.

Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

SECTION 11 – TOXICOLOGICAL IFORMATION

Routes of Entry: Inhalation. Ingestion. Eyes.

Toxicity to Animals: Acute toxicity

LD50 Oral - rat - 1,720 mg/kg

Inhalation: Material is extremely destructive to the tissue of the mucous membranes and

upper respiratory tract.

LD50 Dermal - rabbit - 1,015 mg/kg

Specific target organ toxicity: Not available.

Carcinogenicity: Not applicable

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Not available.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 227 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 65 mg/l - 48 h

Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - 15 mg/l - 72 h

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.

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.

SECTION 14 – TRANSPORT INFORMATION

DOT Classification: *UN number*: 2491 *Class:* 8 Packing group: III

Proper shipping name: Ethanolamine

Reportable Quantity (RQ):

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG: UN number: 2491 Class: 8 Packing group: III EMS-No: F-A, S-B

Proper shipping name: Ethanolamine

Marine pollutant: No

IATA: UN number: 2491 Class: 8 Packing group: III

Proper shipping name: Ethanolamine

SECTION 15 – OTHER REGULATORY INFORMATION

Federal and State Regulations:	SARA 302 : No chemicals in this material		he reporting requirements of	
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Title III, Section 302

SARA 313: The following components are subject to reporting levels established by SARA

Title III, Section 313:

SARA 311/312 Hazards: Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Ethanolamine CAS-No. 141-43-5 Revision Date 2007-03-1

Other Regulations: Not applicable.

DSCL (EEC): Not applicable.

Protective Equipment: Not applicable.

SECTION 16 – OTHER INFORMATION

References: Not applicable

Special Considerations: Not applicable

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