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EMERGENCY - MARTRON - 704-289-1934 CHEMTREC - 800-424-9300

**REF # - MFC-000518** 

# MARTRON ECA-200 Alkaline Electro Metal Cleaner

Martron ECA-200 is an economical alkaline electro cleaner for steel, iron and copper prior to electroplating. Martron ECA-200 provides high conductivity and excellent detergency for the removal of fabricating oils and compounds. Martron ECA-200 is fortified with surfactants for the difficult cleaning jobs. This electro cleaner is non-phosphate and non-chelated.

#### **SECTION 1: BENEFITS**

- 1. Rapid wetting and oil removal.
- 2. Highly conductive.
- 3. Excellent hard water tolerance and rinsing.
- 4. Surfactants compatible with subsequent plating and finishing operations.

#### **SECTION 2: OPERATING PARAMETERS**

Concentration 8-10 oz/gal.
Temperature 160°F - 190°F

Voltage 5-8 volts, 30-50 amps/sq. ft.

## **SECTION 3: CONTROL**

- 1. Pipette a 10 ml sample into a 250 ml flask
- 2. Add 25 mls deionized water
- 3. Add 5-6 drops of methyl orange indicator
- 4. Titrate with orange solution to a red point using 1.0 N Sulfuric Acid.

Calculation: MI of 1 N sulfuric acid x .75 = oz/gal Martron ECA-200

#### **SECTION 4: HANDLING CONSIDERATIONS**

This product contains caustic which is very corrosive. When handling this product, do not breathe dust which is very irritating to the upper respiratory tract. Avoid contact with skin and eyes. Wear clean clothes, chemical goggles, rubber gloves, apron, boots, gauntlets, and full-face shield. When making solutions, add product **SLOWLY** to surface of solution with agitation to avoid splatter or violent eruptions. Use adequate ventilation. **DO NOT TAKE INTERNALLY**.

## **SECTION 5: FIRST AID**

If skin / and or eyes are contacted with chemical, immediately flush affected area with clean water for 15 minutes. For skin burn and eye contact, seek medical physician.

# **SECTION 6: INGESTION**

Give plenty of milk or water. Call a physician immediately. Do not induce vomiting. Do not administer liquid if person is unconscious.

# **SECTION 7: DISCLOSURE**

The information contained herein is based on data developed through laboratory and production experience and is believed to be correct. However, *Martron Inc.* makes no warranty, expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof. *Martron Inc.* assumes no responsibility for injury from the use of the product described herein.