

# Luster-On Products

## Technical Data Sheet

### LUSTER-ON 310

#### Anodic Electrocleaner for Ferrous Metals

#### I. GENERAL DESCRIPTION

Luster-On 310 is a powdered heavy duty, non-chelated alkaline electrocleaner formulated for the removal of smut, degreasing and soak cleaning residues from ferrous metals prior to electroplating.

**READ MATERIAL SAFETY DATA SHEET BEFORE USING THIS PRODUCT**

#### II. BATH MAKE-UP

Fill the tank half full with cold water. The calculated amount of Luster-On 310 is added slowly and carefully with stirring. When all the cleaner has been dissolved, raise solution level and temperature to operating range.

#### III. OPERATING CONDITIONS

Concentration: 8 to 12 oz./gal. of water.  
Temperature: 170 to 190°F.  
Current: Reverse.

**NOTE:** The required immersion time will vary depending upon the nature of the soil and the current density employed. 30 to 60 amperes/ft<sup>2</sup> is recommended.

**Luster-On Products, Inc., Springfield, MA – 800-888-2541, Fax 413-731-5549**  
[www.luster-on.com](http://www.luster-on.com) E-MAIL [sales@luster-on.com](mailto:sales@luster-on.com)

## LUSTER-ON 310

### IV. HELPFUL COMMENTS

1. Contains no solvents and, therefore, presents no fire hazard or solvent toxicity problem.
2. Has good rinsability and hard water tolerance.
3. In many cases, it can be used without prior soak cleaning or degreasing.

### V. EQUIPMENT

Steel tank with steam or gas heating. Cathode should be steel, perforated if possible.

### VI. PACKAGE

400-lb. polyethylene lined fiber drums.

### VII. STORAGE

Keep covered when not in use. Store in a cool, dry area when possible.

### VIII. DISPOSAL

Dilute, neutralize carefully with an acidic material, and discharge in accordance with Federal, State and Local Regulations.

### IX. SAFETY AND HANDLING PRECAUTIONS

**CAUTION! HIGHLY ALKALINE INDUSTRIAL PRODUCT.**

**DANGER! CAUSES BURNS OF EYES AND SKIN.  
HARMFUL IF SWALLOWED OR INHALED.**

Avoid contact with eyes, skin and clothing.

Wear rubber gloves, safety goggles or face shield and suitable protective clothing when handling.  
Wash thoroughly after handling.

Avoid breathing mist.

Use with adequate ventilation.

Do not take internally.

Keep container closed when not in use.

## LUSTER-ON 310

### IX. SAFETY AND HANDLING PRECAUTIONS (Continued)

When preparing new solutions or adding to existing solutions, slowly add to surface of solution while stirring to avoid spattering. Do not add large amounts of product to solution at any one time. Do not add to hot water or hot solution warmer than 110°-120°F.

#### CAUTION!!

**ALKALINE ELECTROCLEANERS WILL FORM FOAM BLANKETS THAT TRAP HYDROGEN GAS. THIS HYDROGEN CAN EXPLODE WITH EXCESSIVE NOISE IF IGNITED BY CONTACT SPARKING OR ARCING. FACE AND EAR PROTECTION MUST BE WORN.**

#### FIRST AID IN CASE OF CONTACT

**FOR SKIN:** Immediately flush area with water for 15 minutes. Remove contaminated clothing and discard. Seek medical attention.

**FOR EYES:** Flush eye and lid areas immediately with plenty of water for at least 15 minutes. Get immediate medical attention.

**IF SWALLOWED:** Wash out mouth thoroughly with water. Give several glasses of water or milk to drink. Follow with diluted vinegar, lemon juice or other citrus fruit juice. Get immediate medical attention.

### **KEEP OUT OF REACH OF CHILDREN**

#### **FOR INDUSTRIAL USE ONLY**

This product is sold for industrial use only. Our suggestions for its use are based upon tests and procedures, which from experience we believe to be reliable. Since the use is beyond our control neither we nor our distributors can assume responsibility, either expressed or implied, for the results and/or for violation of any patents or any claims resulting from such use.

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### CONTROL PROCEDURE FOR LUSTER-ON 310

1. Pipette a 10-ml sample into a 250-ml Erlenmeyer flask.
2. Dilute with 50 ml of water.
3. Add 5 drops of Phenolphthalein Indicator.
4. Titrate to the endpoint (pink to colorless) with 1.0N HCl.

#### Calculation

ml of 1.0N HCl X 0.62 = oz/gal. Luster-On 310