



## Product Bulletin

Better Chemistry. **Better Business.**

**Lusterclean™ 1 LF**

**Product Code: 2053014**  
**Revised Date: 02/13/2006**

### **Lusterclean™ 1 LF** (Power Washcleaner)

**Lusterclean™ 1 LF** is a moderately alkaline liquid cleaner formulated for use in a pressure spray washer application or in an "AGI-DIP" type machine. **Lusterclean™ 1 LF** combines high detergency with low alkalinity and low foaming properties. **Lusterclean™ 1 LF** may be used to clean the following variety of metals: ferrous metals, copper, brass alloys, bronze alloys and some aluminum alloys.

### **OPERATING CONDITIONS**

In power wash applications pressure spray, scoop, or mechanical agitation. For spray applications, **Lusterclean™ 1 LF** is preferred because of its low-foaming characteristics.

Concentrations: 1 to 10% (vol.). Usually an average of 2 to 3% (vol.) is common.  
Temperature: 120-180F (49-82C)

Note for cleaning aluminum: use low concentrations 1 to 2% (vol.) Unless some mild etch is tolerable, as may be the case in paint preparation lines which includes phosphating.

**LUSTERCLEAN 1 LF** is also effective as the first alkaline cleaner in phosphating lines. The cleaned surfaces are ideal for production of the smoothest and finest phosphate coatings.

### **TYPICAL CYCLES:**

- A) Parts: Steel and aluminum small appliances.  
Machine: Belt conveyor with sprays.  
Cycle: 1) **Lusterclean™ 1 LF** - 3-4% by volume, 160F. (71C), 60 sec.  
2) Spray rinse.  
3) Spray AHCOPHOS 18Z (zinc phosphate type), 140F. (60C) 2% by volume, 60 seconds.  
4) Rinse and dry (chromic acid rinses optional in this step).
- B) Parts: Steel bearings  
Machine: Agitated lift  
Cycle: 1) **Lusterclean™ 1 LF** 10% by volume, 180F (82C), 60 sec.  
2) **Lusterclean™ 1 LF** 10% by volume, 170F (77C), 60 sec.  
3) Cold water rinse, 20 seconds  
4) HOT AIR DRY.



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### CONTROLS FOR DETERMINING THE CONCENTRATION OF LUSTERCLEAN 1 LF

#### TEST KIT PROCEDURE

A slight modification in the conventional Hubbard-Hall test kit operation procedure will be necessary for determining concentration (% vol.). Instead of the 1 ml dropper, it will be necessary to use a 5 ml sample.

1. Fill test bottle 1/4 full with water.
2. Add 5 mls **Lusterclean™ 1 LF** solution to the bottle, using the 5 ml pipette.
3. Add 3 drops M.O. indicator.
4. Add dropwise N 94 solution until solution turns from yellow to red-orange.
5. Record number drops N 94 solution used.

$$\% \text{ (Vol) Lusterclean™ 1 LF} = 0.33 \times \text{Number Drops N 94 Solution Used.}$$

#### TITRATION PROCEDURE

1. Pipette a 50 ml sample into a 250 ml Erlenmeyer flask and dilute with 100 ml water.
2. Add 4 drops methyl orange indicator and mix.
3. Titrate with 0.5 N HCl until a color change of orange to red occurs.
4. Record mls of 0.5 N HCl used.

#### CALCULATIONS:

$$\text{Concentration (\%Vol.)} = 0.51 \times \text{MLS 0.5 N HCL Used.}$$

#### CAUTION

**Lusterclean™ 1 LF** is an alkaline product and should be handled accordingly. Avoid skin and eye contact. Wear protective clothing, goggles and gloves. Flush exposed areas immediately with clean cold water. Contact a doctor promptly in case of injury.

#### WASTE DISPOSAL

Neutralize solutions of **Lusterclean™ 1 LF** to a pH between 6 to 8 with a mineral acid. Use caution when adding the acid since neutralization generates heat. Discharge the neutralized solution to a sewer or settling lagoon. In order to be completely informed on the latest disposal regulations for your area, please contact the local authorities.



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### WARRANTY

THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.