

# AUTOMATIC WAREWASHING DETERGENT

## ADVANTAGE CHEMICALS

Distributed by:  
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### GENERAL DESCRIPTION:

HEAVY DUTY LIQUID MACHINE DETERGENT

For best results, use under the following conditions:

- Soft to medium water hardness
- Light to moderate soil loads
- Temperature range 120° - 160°F
- Do not use on soft metals such as aluminum or pewter

### DIRECTIONS:

1. Carefully open the container to prevent spilling or splashing.
2. Insert detergent pickup tube into the container opening.
3. The detergent is then dispensed automatically into the machine.
4. Replace with new container when empty.

**CAUTION: NOT FOR MANUAL USE**

**WARNING: KEEP OUT OF REACH OF CHILDREN**

### PHYSICAL PROPERTIES:

Chemical Composition

Alkaline base; soil and mineral sequestering agents for water conditioning; metal and glaze protectants.

Appearance . . . . . Clear red liquid  
pH . . . . . 13.2  
pH of 1% solution . . . . . 11.9  
Specific gravity . . . . . 1.24 (10.3 lbs./gal)  
Solubility . . . . . Complete and Fast  
Stability . . . . . 1 Year @ Ambient Temperature  
Caustic . . . . . Present  
Foaming . . . . . Low  
Biodegradable . . . . . Yes, all surfactants  
Metal Safety . . . . . Not safe with soft metals  
Water Hardness Tolerance  
. . . . . 9 Grains Per Gallon at 0.3%  
. . . . . 6 Grains Per Gallon at 0.2%  
. . . . . 3 Grains Per Gallon at 0.1%

### RECOMMENDED RANGE OF USE CONCENTRATIONS:

Titrate with Institutional Alkalinity Test Kit. Use range is 0.1% to 0.3%, or 2 to 6 drops (each drop = .05%) using a 10 ml sample and 3 drops of Phenolphthalein Indicator. Select actual use concentration to handle water hardness and soil load.

NOTE: To properly titrate, adjust for raw water alkalinity by titrating H<sub>2</sub>O just as you would a detergent solution. Subtract that number from total drop titration to derive intended detergent concentration.

Example: Raw water titrates 2 drops, total drop titration equals 6 drops. (6 - 2 = 4 x .05% = 0.2%)

### HANDLING PRECUATIONS:

**CAUTION: WARNING  
KEEP OUT OF REACH OF CHILDREN**

Highly alkaline liquid. Contact with skin and eyes may cause severe irritation. Harmful if swallowed. Flood with water if splashed in eyes. Flush with water for 15 minutes and consult physician immediately. If ingested, drink large amounts of milk, milk of magnesia or gelatin, or if these are not available, drink large amounts of water. DO NOT induce vomiting. Obtain prompt medical attention.

### PACKAGING:

(4) 1 gal containers per case- 36 lbs. net/ 38 lbs. gross

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

