

# Resolution

## Liquid Machine Detergent

*For Institutional and Food Service Use Only*



Distributed by:  
**Noble Chemical, Inc.**  
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### GENERAL DESCRIPTION

RESOLUTION is a specially formulated heavy duty detergent designed to produce clean and sparkling tableware with one pass through the dishwasher. RESOLUTION is formulated to handle the toughest food soils in all water conditions in either High Temperature or Low Temperature dish machines. RESOLUTION is dispensed directly from the shipping container, thus eliminating messy spills and unsightly dish areas. This unique product is formulated to be dispensed through an automated injector system, assuring the lowest possible use cost.

### PHYSICAL PROPERTIES:

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

Appearance ..... Clear Red Liquid

pH .....14

pH of 1% solution ..... 12.4

Specific gravity ..... 1.34 (11.2 lbs/gal)

Solubility ..... Complete and Fast

Stability .....1 Year @ Ambient Temperature

Caustic ..... Present

Foaming ..... Low

Biodegradable .....Yes, all surfactants

Water Hardness Tolerance .....

..... 15 Grains Per Gallon at 0.3%

..... 10 Grains Per Gallon at 0.2%,

.....5 Grains Per Gallon at 0.1%

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.

### PACKAGING

2 x 2.5 Gal. Plastic Jug - 56 lbs. Net/59 lbs. Gross

### RECOMMENDED

#### RANGE OF USE CONCENTRATIONS:

Titrate with Institutional Alkalinity Test Kit. Use range is 0.1% to 0.3%, or 3 to 9 drops (each drop = .033%) 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 8 drops. (8 - 2 = 6 x .033% = 0.2%)

### WARNING

**KEEP OUT OF REACH OF CHILDREN.**

### CAUTION

**HIGHLY ALKALINE LIQUID. MAY BE HARMFUL IF SWALLOWED. CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.**

### FIRST AID:

**EYES:** Flood with water if splashed in eyes. Flush with water for 15 minutes and consult physician immediately. **EXTERNAL:** If on skin, wash with plenty of soap and water. If irritation occurs, get medical attention. **INGESTION:** Harmful if swallowed. 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.