**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

**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 H2O 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

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**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%