



Better Chemistry. **Better Business.**

Emerald Super Soak

Product Code: 2052095
Revised Date: 06/14/10

Emerald Super Soak
(Environmentally Friendly Heavy Duty Industrial Soak Cleaner)

Emerald Super Soak is a mildly alkaline liquid product, which was developed for use in immersion and immersion / ultrasonic cleaning operations. It is suitable for use on steel, stainless steel, brass, copper, bronze, and zinc substrates. It may also be used on aluminum substrates but will impart a slight etch to the surface. Emerald SS AL Additive may be added to working solutions at a concentration of 1-2% by volume to completely stop the etching of aluminum.

Emerald Super Soak will remove a variety of forming and machining lubricants (synthetic, petroleum base, sulfurized, etc.). When used with ultrasonic equipment it will effectively remove most buffing compound residues and particulate soils.

ADVANTAGES

- Free rinsing, rinses to a no-water-break surface
- Highly concentrated liquid.
- High detergency
- Mixes readily with cold water
- DfE compliant surfactant system
- Contains no hazardous materials
- Chelating agent free
- pH-operating range: 9.7 to 9.9

PHYSICAL DATA

Specific gravity 1.108
 Solubility in water..... complete
 Appearance and odor water white liquid, fruity odor
 pH (conc.)..... 9.5 - 10.0

OPERATING CONDITIONS

Concentration 5-10% (vol.) - suggest 5% for most applications
 Temperatures 120 °F to 190 °F
 Equipment mild steel tanks and heating coils



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CONTROLS

TEST KIT PROCEDURE

1. Fill sample bottle one third full with water.
2. Add 2 ml cleaner solution.
3. Add 8 drops methyl orange indicator solution.
4. Add N-94 solution dropwise until color turns from yellow to orange. Record number of drops used.

$$\% \text{ (Vol) Emerald Super Soak} = 1 \times \text{Number Of Drops Of N-94 Solution}$$

TITRATION PROCEDURE

1. Pipette a 50 ml sample into a 250 ml Erlenmeyer flask.
2. Add 4 drops methyl orange indicator and mix.
3. Titrate with 0.5 N hydrochloric acid until the color changes from yellow to orange.
4. Calculations:

$$\text{MLS OF 0.5N Hydrochloric Acid} \times 0.63 = \% \text{ (Vol) Emerald Super Soak}$$

WASTE DISPOSAL

Discharge to a disposal system. In order to be completely informed on the latest regulations for your area, please contact the local authorities.

CAUTION

Emerald Super Soak 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.

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.