

## Product Rationale and Description

### all-in-ONE™ Surgical Instrument Cleaner AND Conditioners

The all-in-ONE™ Universal Processing Solution delivers the highest quality Surgical Instrument Cleaner AND Conditioners with the lowest possible cost. When you use the all-in-ONE™ Surgical Instrument Cleaner AND Conditioners, you are applying the highest level multi-tiered Enzymatic Enzyme Detergent product. The all-in-ONE™ Surgical Instrument Cleaner AND Conditioners can **REPLACE** multiple products: enzyme cleaners, cleaning chemicals, **STAIN** removers, surface conditioners, and lubricants. **ONE** gallon will deliver 512 gallons (1938 liters) of Surgical Instrument Cleaning AND Conditioning power. The Dilution rate is .25 to .5 ounces per gallon (1.92 ml per liter to 3.85 ml per liter) depending on the level of bioburden, encrustation and **STAINS**.

all-in-ONE™ Surgical Instrument Cleaning AND Conditioning **replaces** products used for: manual cleaning, ultrasonic surgical instrument cleaners, automated surgical instrument washers, and scope (flexible and rigid) cleaners.

**Image:** replacing multiple products, lowering costs, and improving performance.

The all-in-ONE™ rapidly breaks down and removes all forms of proteinaceous bioburden, cleans and conditions the surface, enhances the “passive layer” protection of surgical stainless steel, lubricates moving parts, and then rinses clean. The easy FOAM-it™ delivers the same chemical complex as the Surgical Instrument Cleaner AND Conditioners. The easy FOAM-it™ difference is the FOAM applicator which delivers a thick layer if long lasting, fast acting Surgical Instrument Cleaners AND Conditioners. The all-in-ONE™, and the easy FOAM-it™ are **Neutral pH**, “high level”, and “multi-tiered” with a unique formulation of enzyme detergents to rapidly break-down bioburden, while a surfactant chemical complex that: cleans the surface, conditions the “passive layer” of surgical stainless steel to prevent corrosion, removes **STAINS**, lubricates moving parts, and then **rinses clean**. The all-in-ONE™, and the easy FOAM-it™ Surgical Instrument Cleaning AND Conditioning deliver all of the cleaning & conditioning power you really need in **ONE** application.

The multi-tiered high level Enzyme Formulation (Protease, Amylase, Lipase, and Carbohydrase enzymes) quickly removes the most stubborn organic encrustation and bioburden including: blood, fat, carbohydrates, starches, and protein. The all-in-ONE™, and the easy FOAM-it™ high-level surfactant Chemical Complex will break down and remove bioburden, clean the surface, remove **STAINS**, and condition the surface to **prevent** staining and corrosion and pitting. The “free rinsing” all-in-ONE™ Chemical Complex will condition the source water and counter the effects of hard water for optimal spotless cleaning.

### Surgical Instrument Cleaner AND Conditioners©

**LOWER** Surgical Instrument Cleaning AND Conditioning **COSTS**. The all-in-ONE™ DELIVERS high quality Surgical Instrument Cleaning AND Conditioning.

**The all-in-ONE™ Universal Processing Solution** contains a proprietary blend of lubricious chemical surfactants, specialty polymers and a four component enzyme matrix (Protease, Amylase, Lipase, and Carbohydrase enzymes) that work together to clean and protect stainless steel surgical instruments and scopes. **The all-in-ONE™ will thoroughly and rapidly break down and clean all forms of proteinaceous bioburden, including blood, fat, carbohydrates, starches, and protein, using a powerful “multi-tiered” enzyme cleaning action. The all-in-ONE™ surfactant chemical complex forms a protective micro layer to condition the passive layer and protect the stainless steel surface against corrosion and pitting.** The all-in-ONE™ Universal Processing Solution enhances the chromium oxide protective coating “passive layer” of stainless steel surgical instruments to form a secondary layer of protection which gives rise to the extended protection against corrosion and oxidation. **The all-in-ONE™ forms ion complex with the chromium oxide layer which becomes stronger with subsequent cleaning. Conventional milk type lubricants have nominal bonding properties and are rinsed off with subsequent cleaning and sterilization cycles. The all-in-ONE™ lubricants are subject to an ionic bond during the high level temperature rinse phase. Once the all-in-ONE™ treatments have concluded, the “free-rinsing” residual components will condition source water and counter the effects of hard water for optimal spotless cleaning.**

**Surgical Instrument Cleaner AND Conditioners® will LOWER costs for: labor, inventory, freight-shipping, and overall the number of products used.**

**all-in-ONE™ “multi-tiered” “high-level” enzyme complex includes:**

**Lipase Enzymes:** (to breakdown fat) to cleave fatty acid residue from the glycerol residue in a neutral fat or a phospholipid.

**Amylase Enzymes:** (to breakdown starch) to catalyze the hydrolysis of starch to sugar to produce carbohydrate derivatives.

**Carbohydrase Enzymes:** (to breakdown starch to a lower level) to catalyze the hydrolysis of higher carbohydrates to lower forms

**Protease Enzymes:** (breakdown blood) including the proteinases and peptidases, to catalyze the hydrolytic breakdown of proteins.

**The all-in-ONE™ “high level” enzyme complex is highly concentrated. The Dilution Rate is .25 ounces (1 ‘pump’ when using the gallon jug dispenser) per gallon (1.92 ML per Liter). This .25 dilution rate delivers a higher level of enzyme and surface cleaning than the standard recommended dilution rates (.5 to 1 ounce per gallon) of other manufacturers. ONE Gallon can deliver 512 gallons of Surgical Instrument Cleaning AND Conditioning**

**Keywords as they refer to product benefits:**

**Neutral pH =** as A measure of acidity or alkalinity numerically equal to 7

**“high level” =** highly concentrated dilution rate of .25 ounces per gallon

**“multi-tiered” =** Protease, Amylase, Lipase, and Carbohydrase enzymes

**enzymatic formulation** breaks down all forms of bioburden

**surfactant chemical complex** cleans the surface,

**conditioners** enhance the stainless steel “passive layer” to prevent corrosion pitting

**conditioners** removes **STAINS**

**conditioners** lubricate moving parts

**conditioners** treat the source water to counter the effects of hard water

**conditioners** rinses clean for optimal spotless cleaning.

**yourCEBA**

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