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## Product Rationale and Description

all-in-ONE™ and easy FOAM-it™ Surgical Instrument Cleaners with Conditioners deliver ingredients that compound the efficacy of the cleaning process.

non-irritating, 100 % Biodegradable, Phosphate free, and Neutral pH

The proper Cleaning of Surgical Instruments is critical to provide optimal worker safety, instrument care, and the prerequisite for sterilization. The all-in-ONE achieves this by rapidly removing all forms of proteinaceous bioburden, mineral encrustation, and STAINS, while cleaning and conditioning. The all-in-ONE delivers the highest quality Surgical Instrument Cleaner with Conditioners with the lowest possible cost. When you use the all-in-ONE Surgical Instrument Cleaner with Conditioners, you are applying the highest level multi-tiered Enzymatic Enzyme (Protease, Amylase, Lipase, and Carbohydrase enzymes), Detergents and Conditioners. The all-in-ONE can REPLACE multiple products: enzyme cleaners, cleaning chemicals, STAIN removers, surface conditioners, and lubricants. ONE gallon delivers 512 gallons (1938 liters) of Surgical Instrument cleaning power that also conditions surgical instruments to looker newer and perform longer. 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. The all-in-ONE can replace products used for: manual cleaning, ultrasonic cleaning, automated surgical instrument washers, and scope cleaners.

The all-in-ONE is environmentally friendly being: Neutral Ph, 100% biodegradable, free rinsing, and free of toxic and/or hazardous components.

**Imagine:** 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 of soiled surgical instrument, 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 all-in-ONE. The easy FOAM-it difference is the FOAM applicator which delivers a thick layer of long lasting, fast acting Surgical Instrument Cleaners with Conditioners. The “foam” dissipates when water is added to provide a clear and safe cleaning media. The all-in-ONE, and easy FOAM-it are Neutral pH, enzyme detergents to rapidly break-down bioburden, clean the surface, condition the “passive layer” of surgical stainless steel to prevent corrosion, remove STAINS, lubricate moving parts, and then rinse clean. The all-in-ONE, and the easy FOAM-it deliver all of the cleaning AND 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 bio-burden 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.



(NOTE: Keywords are [Hyperlinked](#) to additional information)

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 powerful “multi-tiered” 4 enzyme cleaners. The all-in-ONE and **easy-FOAM-it** provide the ideal [Ultrasonic Surgical Instrument Cleaner](#), acting as a non-foaming surfactant. The easy-FOAM-it “foam” dissipates when water is added.

The all-in-ONE prevents pitting and corrosion by using a surfactant chemical complex that forms a protective micro layer to condition the [passive layer of surgical instruments](#). Surgical Instrument Manufacturers provide the initial passive layer to protect the stainless steel surface against corrosion and pitting. The all-in-ONE enhances the chromium oxide protective coating (the “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 ion complex strengthens the [chromium oxide protective passive layer](#) and the surgical instruments become stronger with subsequent thorough cleaning.

The all-in-ONE [surgical instrument lubricant](#) uses an ionic bond which is activated by the high level temperatures during the final rinse. Conventional milk type lubricants have nominal bonding properties and are rinsed off with subsequent cleaning and sterilization cycles. The all-in-ONE is “free-rinsing” for a [residue free surgical instrument surface](#) and will condition the source water, to counter the effects of hard water, for spotless cleaning. The all-in-ONE will **lower costs** for: inventory, labor, shipping, and the products used.

**all-in-ONE multi-tiered high-level [enzyme detergent 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 [enzyme detergent surgical instrument cleaning](#) is **highly concentrated**.

The Dilution Rate is .25 ounces per gallon (1.92 ML per Liter).

1 ‘pump’ = .25 ounces when using the gallon jug dispenser.

The .25 dilution rate delivers a **higher level** of enzymes and cleaning surfactants 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 [proteinaceous bioburden](#),

**surfactant chemical complex** is designed for [cleaning the surface of surgical instruments](#),

**conditioners** enhance the stainless steel passive layer to [prevent surgical instrument corrosion](#) and pitting,

**conditioners** [remove surgical instrument stains](#) and mineral encrustation,

**conditioners** [ionic bonding surgical instrument lubricant](#) lubricates moving parts leaving no visual spotting or film,

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

**conditioners** rinse clean for “free rinsing” purity and render [residue free surgical instruments](#).



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