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Product Description: UPS-1 Universal Processing Solution. Surgical Instrument Detergent 4 Enzyme Cleaners

The all-in-ONE and easy FOAM-it Surgical Instrument Detergent 4 Enzyme Cleaners are highly concentrated for fast and cost effective: presoaking, hand washing, ultrasonic, and automated cleaning. When used as directed, the all-in-ONE Surgical Instrument Detergent Enzyme Cleaner replaces multiple products, lowers reprocessing costs, improves the performance of surgical instruments, renders the highest quality cleaning outcomes, and is non-irritating to the nose, eyes, throat, and skin.

The proper cleaning of surgical instruments is critical to provide safety for the reprocessing staff, functional surgical instruments, and the prerequisite for sterilizing surgical instruments.

The all-in-ONE achieves this by rapidly breaking down all forms of proteinaceous bioburden, mineral encrustation, and stains, cleaning and conditioning the surface, and then rinsing clean for a residue free surface. The all-in-ONE delivers the highest quality Surgical Instrument Detergent Enzyme Cleaner with Conditioners at the lowest possible cost. When you use the all-in-ONE Enzyme Detergent Surgical Instrument Cleaners, you are applying the 4 enzymes necessary for removing all forms of proteinaceous bioburden.

- Protease Enzyme Detergents for removing proteins including blood,
- Amylase Enzyme Detergents,
- Lipase Enzyme Detergents for removing fats and high level lipids, and
- Carbohydrase Enzyme Detergents for removing high level starches

Enzyme Detergents that do not offer these 4 enzymes cannot remove all forms of proteinaceous bioburden and will not clean as effectively. The all-in-ONE also delivers surfactant detergents that rapidly remove stubborn organic and mineral encrustation. The all-in-ONE replaces multiple products:

- enzyme cleaners,
- ultrasonic cleaning solutions,
- surgical instrument washer and washer disinfectant detergents,
- detergent cleaning chemicals,
- rust, mineral encrustation and stain removers,
- stainless steel surface conditioners, and
- lubricants for container hinge points and instrument moving parts.

The all-in-ONE is highly concentrated. **1 gallon** (3.78 liters) delivers **512 gallons** (1938 liters) of cleaning power. The dilution rate is .25 to .5 ounces per gallon of diluent (1.9 ml liters to 3.8 ml per liter) depending on the level of bioburden, encrustation, and stains. Instruments will look newer and perform longer.

Nothing cleans faster or more effectively than the all-in-ONE Detergent 4 Enzyme Cleaner.

Nothing lowers cleaning costs as much as the all-in-ONE Detergent 4 Enzyme Cleaner, **we guarantee it.**



all-in-ONE easy FOAM-it,



all-in-ONE Enzyme Detergent Cleaners.



The ergo-Logistics product is labeled as: all-in-ONE Surgical Instrument Detergent, Universal Processing Solution, ONESStep Enzyme Detergent Cleaner, and easy FOAM-it. The all-in-ONE contains a proprietary blend of lubricious chemical surfactants, specialty polymers and a 4 component enzyme matrix (Protease, Amylase, Lipase, Carbohydrase enzymes) that work together to clean and protect stainless steel surgical instruments and scopes. The all-in-ONE and easy-FOAM-it provide the ideal Ultrasonic Surgical Instrument Cleaner, acting as a non-foaming surfactant. The "foam" of the easy-FOAM-it is created by the applicator and 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 and with proper cleaning, this protection against pitting and corrosion strengthens over time. The all-in-ONE enhances this chromium oxide protective coating (the passive layer of stainless steel surgical instruments) to form a secondary layer of protection which gives rise to 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 when this cleaning process is used.

The all-in-ONE surgical instrument lubricant uses an ionic bond which is activated by the cleaning temperatures during the reprocessing treatments. Conventional milk type lubricants have nominal bonding properties and are rinsed off with rinsing, and sterilization treatments. The all-in-ONE will condition the source water, to counter the effects of hard water and is "free-rinsing" for a residue free surgical instrument surface for spotless cleaning. The all-in-ONE will lower costs for: inventory, labor, shipping, and the products used.

The all-in-ONE multi-tiered high-level enzymatic 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.
- Protease Enzymes: (breakdown blood) including proteinases peptidases, to catalyze the hydrolytic breakdown of proteins.

Summary:

The all-in-ONE is highly concentrated. **1 gallon** (3.78 liters) delivers **512 gallons** (1938 liters) of cleaning power.
1 'pump' of the gallon jug dispenser = .25 ounces compared to the (.5 to 1 ounce per gallon) of other manufacturers.
.25 dilution rate delivers a higher level of cleaning compared to the (.5 to 1 ounce per gallon) of other manufacturers.
neutral Ph = as a measure of acidity or alkalinity numerically equal to 7
enzymatic formulation breaks down all forms of bioburden and proteinaceous debris,
surfactant chemical complex cleans the surface of surgical instruments and scopes,
chemical complex enhances the passive layer to prevent surgical instrument corrosion and pitting,
conditioners remove surgical instrument stains and mineral encrustation,
lubricant ionic bonding to the surface, lubricates moving parts, leaving no visual spotting or film,
water treatment assists in countering the corrosive effects of hard water,
free rinsing ingredients render a residue free surface.

The TOSI Test provides an indication of cleaning performance. The amount of red material (image to the right) simulates proteinaceous bioburden remaining after soaking for 4 minutes at 135 degrees F.
The Test Strip on the Left shows cleaning results using the RUHOF Endozime AW Triple Plus.
The Test Strip on the Right shows cleaning results using the all-in-ONE Detergent 4 Enzyme Cleaner.
Your greatest cleaning challenge will be your best proof of all-in-ONE cleaning performance.
Nothing cleans faster or more effectively than the all-in-ONE Detergent 4 Enzyme Cleaner.
Nothing lowers cleaning costs as much as the all-in-ONE Detergent 4 Enzyme Cleaner, **we guarantee it.**



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