

**Mallard Medical:** 1-800-441-1907 FAX: (215) 297-5920 email: [MallardMedical@comcast.net](mailto:MallardMedical@comcast.net)  
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## Product Rationale and Description

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

The proper Cleaning and Decontamination of Surgical Instruments is critical to provide optimal worker safety and instrument care. The all-in-ONE™ achieves this by rapidly removing all forms of **proteinaceous bioburden**, mineral encrustation, and **STAINS**, while conditioning the **surface**. The all-in-ONE™ **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, Detergents and Conditioners. 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 delivers 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**. The all-in-ONE™ Surgical Instrument Cleaner **AND** Conditioners **replace** products used for: manual cleaning, ultrasonic cleaning, automated surgical instrument washers, and scope (flexible and rigid) cleaners. The all-in-ONE™ is inherently **environmentally friendly** being: **Neutral Ph**, biodegradable, and free of toxic and/or hazardous components.

**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 all-in-ONE™ 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 “foam” dissipates when water is added to provide a clear and safe cleaning media. 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 **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 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.

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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™ ion complex strengthens the chromium oxide protective “passive layer” which will then become 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™ lubricant uses an ionic bond which is activated by the high level temperatures during the final rinse. The all-in-ONE™ is “free-rinsing” delivering a residue free surface and will also condition the source water to counter the effects of hard water for 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 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 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 proteinaceous bioburden,

**surfactant chemical complex** cleans the surface,

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

**conditioners** removes **STAINS** and mineral encrustation,

**conditioners** ionic bonding lubricate moving parts leaving no visual spotting or film,

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

**conditioners** rinse clean for “free rinsing” purity and optimal spotless cleaning.

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