



# Professional Care

Disinfectants for  
Hospital & Nursing Home



HiMedia Laboratories Pvt. Ltd.  
[www.himedialabs.com](http://www.himedialabs.com)

**HiMEDIA**®  
For Life is Precious



## HiCare Triclogel

(CO004)

Smart Care for the hands that care

## HiShield™ Handguard

(CO013)

Skin Antiseptic for the hands that care



## SteriSwift™

(CO100S)

Ready to use Disinfection Wipe  
for medical equipments and surfaces

## Bactrex Plus

(CO106)

Disinfectant cum Cleaner



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## 6% Hydrogen Peroxide Lint Free Wipe (C0284)



**Effective against bacteria, fungi, moulds, yeasts and spores, The wipe leaves no residue on the surface after application. 6% Hydrogen peroxide RTU wipe is a blend of 6% hydrogen peroxide and purified water.**

**Packing** : 100 Fleece Canister.

<b>Composition</b>	Each wipe contains : 6 % Hydrogen peroxide with purified water and absorbent wipe.
<b>Microbicidal Properties</b>	Bactericidal, Fungicidal, Facultative Anaerobes, Aerobes, Fungi, Yeast, Mold and Protozoa, Virucidal against Enveloped Virus (Incl. HBV, HIV, HCV, SARS Virus.)
<b>Features</b>	<ul style="list-style-type: none"> <li>• 0.2 micron filtered.</li> <li>• Faster contact times for fungi, bacteria, viruses, and TB.</li> <li>• Compatible with a wide range of materials.</li> <li>• Less residue reduces frequency .</li> <li>• Non-hazardous for cost-effective disposal.</li> <li>• Reduces corrosion and wear on surfaces and equipment.</li> <li>• Remove organic and inorganic residue from surfaces.</li> </ul>
<b>Mode of Action</b>	Hydrogen peroxide works by producing destructive hydroxyl free radicals that can attack membrane lipids, DNA, and other essential cell components. Catalase, produced by aerobic organisms and facultative anaerobes that possess cytochrome systems, can protect cells from metabolically produced hydrogen peroxide by degrading hydrogen peroxide to water and oxygen. This defense is overwhelmed by the 6% Hydrogen peroxide concentrations used in the wipe for disinfection.
<b>Areas of Application</b>	Residue free surface disinfection .
<b>Method of Application</b>	<p><b>Normal Surface:</b> Wipe surface with wet wipe until the surface is visibly wet. Allow the surface to remain wet for 5 to 10 minutes. Allow to air dry.</p> <p><b>Dirty Surface:</b> Clean the surface first with a cloth or sheet. Wipe the surface with wet wipes. Allow the surface to remain wet for 10 minutes. Allow to air dry.</p>
<b>Wipe Dimension</b>	6" X 8".

## HiCare 70 % IPA Lint Free Wipe (C0285)



**HiCare 70% Isopropyl Alcohol Wipes is a multi-purpose cleaning wipe that removes dust, dirt, oxides and most contaminants. Helps keep critical components, tools and electronic equipment clean with its ability to quickly clean a wide range of surfaces. Each wipe is designed for use in controlled environment manufacturing areas or in the field .**

**Packing : 100 Fleece Canister.**

<p><b>Technical Data</b></p>	<p>Made from meltblown polypropylene HiCare wipes offer exceptional cleanliness and are suitable for use in a wide variety of critical environments. Saturated with a solution of 70% IPA with 30% deionized water, the wipes provide a uniform and consistent application of the solution to the surface. HiCare 70% IPA wipes are exceptionally clean and also free from additives of any kind. Meltblown polypropylene contains very low levels of sodium and other ions. The meltblown polypropylene wipes provide a consistent release of solvent to thoroughly remove surface contaminants in critical environments. The wipes are provided folded in convenient and easy-to-use peel and reseal pouches. Suitable for use in many critical environments, HiCare 70% IPA meltblown polypropylene wipes are ideal for wiping articles prior to pass through, cleaning process tools and other equipment, general surface cleaning and cleaning prior to decal application. The solvent blend meets either SEMI specifications for metals and contaminants, ensuring the wipes are suitable for use in microelectronic facilities or USP grade for life science cleanrooms.</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>• Quickly removes oils, light greases, grime, and flux residues.</li> <li>• Made with Lint free exceptionally clean material Meltblown Polypropylene.</li> <li>• Saturated with high purity isopropyl alcohol (IPA).</li> <li>• Safe on most plastics.</li> <li>• Wipes are non smearing.</li> <li>• Does not streak hard surfaces.</li> </ul>
<p><b>Areas of Application</b></p>	<p>HiCare IPA wipes is used for the disinfection of alcohol-resistant surfaces in hospitals and medical facilities areas where the wipes has extensive application are:</p> <ul style="list-style-type: none"> <li>• For home dialysis.</li> <li>• For the sterilization of toilet seats, telephone receivers toys, and the like.</li> <li>• For practice-based doctors when doing home visits.</li> <li>• For emergency physicians on duty.</li> <li>• Disinfecting alcohol resistant medical devices.</li> <li>• Dental equipment and devices.</li> <li>• Instant and rapid disinfection of alcohol resistant equipments in OT and ICU.</li> <li>• Alcohol resistant computer parts and electronic gadgets.</li> </ul>
<p><b>Application Instructions</b></p>	<p>Gently wipe the surface with wet wipe. Allow to air dry.</p>
<p><b>Wipe Dimension</b></p>	<p>6"X 8".</p>

## SteriSwift™ Lint Free Wipes (C0100S)



**SteriSwift™ Wipe is an aldehyde-free 5th generation quaternary ammonium compound based disinfectant wipe that combines excellent cleaning power with a broad spectrum of effect. SteriSwift™ Wipes are effective against all pathogens. It has exceptional cleaning power, high material compatibility and pleasant smell. It is suitable for high level disinfection.**

**Packing** : 100 Fleece Canister.

<p><b>Composition</b></p>	<p>Each wipe Contains : N, Alkyl Dimethyl Benzyl Ammonium Chloride I.P : 0.30% W/W ,Octyl Decyl Dimethyl Ammonium Chloride: 0.13% W/W, Dioctyl Dimethyl Ammonium Chloride : 0.057% W/W , Didecyl Dimethyl Ammonium Chloride : 0.082% W/W Other Ingredients: DM Water, Lime fragrance and absorbent Wipe.</p>
<p><b>Microbicidal Properties</b></p>	<p>Bactericidal, Fungicidal, Tuberculocidal, Virucidal.</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>• Ready-to-use alcohol free disinfection wipes.</li> <li>• Broad spectrum anti microbial property.</li> <li>• Suitable for uncomplicated disinfection and cleaning In hospitals.</li> <li>• Short action time.</li> <li>• Wide range of material compatibility.</li> <li>• Good coverage and cleaning power.</li> <li>• Safe and easy withdrawal of single wipes due to practical folding system.</li> <li>• Fresh lime fragrance.</li> <li>• Resealable packing.</li> </ul>
<p><b>Areas of Application</b></p>	<p>SteriSwift™ wipes are suitable for disinfecting cleaning of hard surface and articles..The areas where the wipes are extensively used are:</p> <ul style="list-style-type: none"> <li>• Uncomplicated disinfecting and cleaning of equipments.</li> <li>• Alcohol sensitive application parts that cannot be submerged in liquids, such as ultrasonic heads of probes.</li> <li>• Disinfecting and cleaning of hard surfaces .</li> <li>• Disinfecting and cleaning small objects and surfaces such as toilet seats, door handles, bed frames and office desks.</li> </ul>
<p><b>Method of Application</b></p>	<p><b>Normal Surface:</b> Wipe surface with wet wipe until the surface is visibly wet. Allow the surface to remain wet for 5 to 10 minutes. Allow to air dry.</p> <p><b>Dirty Surface:</b> Clean the surface first with a cloth or sheet. Wipe the surface with wet wipes. Allow the surface to remain wet for 10 minutes. Allow to air dry.</p> <p>Surfaces contaminated with virus must be cleaned from the surface or objects with a sheet before disinfecting with SteriSwift™ wet wipes.</p>
<p><b>Wipe Dimension</b></p>	<p>6"X 8"</p>



## 70% Ethyl Alcohol Lint Free Wipe (C0283)



**70% Ethyl Alcohol Lint Free Wipes is a multi-purpose cleaning wipe that removes dust, dirt, oxides and most contaminants. Helps keep critical components, tools and electronic equipment clean with its ability to quickly clean a wide range of surfaces. Each wipe is designed for use in controlled environment manufacturing areas or in the field .**

**Packing :100 Fleece Canister.**

<p><b>Technical Data</b></p>	<p>Made from meltblown polypropylene HiCare wipes offer exceptional cleanliness and are suitable for use in a wide variety of critical environments. Saturated with a solution of 70% Ethyl alcohol with 30% deionized water, the wipes provide a uniform and consistent application of the solution to the surface. HiCare 70% Ethyl alcohol wipes are exceptionally clean and also free from additives of any kind. Meltblown polypropylene contains very low levels of sodium and other ions. The meltblown polypropylene wipes provide a consistent release of solvent to thoroughly remove surface contaminants in critical environments. The wipes are provided folded in convenient and easy-to-use peel and reseal pouches. Suitable for use in many critical environments, HiCare 70% Ethyl alcohol meltblown polypropylene wipes are ideal for wiping articles prior to pass through, cleaning process tools and other equipment, general surface cleaning and cleaning prior to decal application.</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>• Quickly removes oils, light greases, grime and flux residues</li> <li>• Made with Lint free exceptionally clean material Meltblown Polypropylene</li> <li>• Saturated with high purity ethyl alcohol.</li> <li>• Safe on most plastics.</li> <li>• Wipes are non smearing.</li> <li>• Does not streak hard surfaces.</li> </ul>
<p><b>Areas of Application</b></p>	<p>70% ethyl alcohol wipes is used for the disinfection of alcohol-resistant surfaces in hospitals and medical facilities. Areas where the wipes has extensive application are:</p> <ul style="list-style-type: none"> <li>• For home dialysis.</li> <li>• For the sterilization of toilet seats, telephone receivers toys and the like.</li> <li>• For practice-based doctors when doing home visits.</li> <li>• For emergency physicians on duty.</li> <li>• Disinfecting alcohol resistant medical devices.</li> <li>• Dental equipment and devices.</li> <li>• Instant and rapid disinfection of alcohol resistant equipments in OT and ICU.</li> <li>• Alcohol resistant computer parts and electronic gadgets.</li> </ul>
<p><b>Application Instructions</b></p>	<p>Gently wipe the surface with wet wipe. Allow to air dry.</p>
<p><b>Wipe Dimension</b></p>	<p>6"X 8"</p>

## Hishield™ Disinfectant Wipes (C0176,C0183)



**Hishield™ Disinfectant Wipe are presoaked wipes of Ethyl alcohol and Chlorhexidine Gluconate. It is an instant disinfectant. It kills 99.99% of microbes within 30 seconds and has got prolonged residual effect.**

**Packing :100 Fleece Canister.**

<p><b>Composition</b></p>	<p>Each wipe contains : Ethyl Alcohol IP - 70%V/V, Chlorhexidine Gluconate Solution IP -2.5%W/V With Emollients, Moisturizers, Skin Care Ingredients and Absorbent Wipes.</p>
<p><b>Microbicidal Properties</b></p>	<p>Bactericidal, Fungicidal, Tuberculocidal, Virucidal against enveloped virus .</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>• Wide and universal application.</li> <li>• Reliably reduces the danger of contact infection on hand, skin or alcohol resistant surface and objects.</li> <li>• Skin caring additives protects hands and skin even with frequent use.</li> <li>• Reduces the germ flora by more than 99.99% within 30 seconds.</li> <li>• Gentle to skin through replenishing substances and skin protecting components.</li> <li>• Broad spectrum of effect.</li> <li>• Compatible with wide range of alcohol resistant materials.</li> <li>• Good coverage and rapid drying.</li> <li>• Made from highly absorbent fabric.</li> <li>• Almost all the liquid is released when the wipe is used on the hand and surface.</li> </ul>
<p><b>Mode of Action</b></p>	<p>70% ethanol causes the protein of the cell of the microorganism to coagulate at a slow rate. This allows ethanol to penetrate the entire cell before the cell has a chance for its coagulation to block ethanol. The entire cell is then coagulated causing the cell to die. Chlorhexidine Gluconate is bactericidal / bacteriostatic against wide range of gram-positive and gram-negative bacteria. It kills yeast, fungi and viruses also. It is most active at a neutral and slightly acidic pH. Combination of chlorhexidine gluconate and alcohol enhances the efficacy with lethal effect.</p>
<p><b>Areas of Application</b></p>	<ul style="list-style-type: none"> <li>• Disinfection of alcohol resistant surfaces ,equipments and instruments.</li> <li>• Disinfecting hands, surface, devices and articles contaminated with pathogens.</li> <li>• Applicable universally and everywhere.</li> <li>• Provide safety at work, when traveling and in other hygiene relevant situations.</li> <li>• Used for the hygienic hand disinfection and skin antiseptis as well as for the disinfection of alcohol-resistant surfaces.</li> <li>• Disinfecting hands before after the care of sick, elderly and babies.</li> <li>• In home dialysis.</li> <li>• For disinfecting toilet seats, telephone receivers and toys.</li> </ul>
<p><b>Method of Application</b></p>	<p><b>Cleaning and Disinfection of surface:</b>  <b>Normal Surface:</b> Wipe the surface with wet wipe until the surface is visibly wet. Let the surface remain wet. Allow to air dry.  <b>Dirty surface:</b> Clean the surface first with a cloth or sheet. Wipe the surface with wet wipe. Allow to air dry. Surfaces contaminated with virus must be cleaned from the surface with a sheet before disinfecting with Hishield™ wipes.  <b>For Hygienic hand and skin disinfection:</b> Use one wipe. In case of TB use two.</p>
<p><b>Wipe Dimension</b></p>	<p>C0176 : 8” x 10”.  C0183 : 5” x 7”.</p>

## Sterifast™ Disinfectant Wipe (C0184,C0185)



**Sterifast™ presaturated Wipes are presoaked with 1,Propanol and 2 Propanol.It provides many benefits for pharmaceutical drugs, integrated circuits, medical devices, automobile or airplanes. Significantly improvements in both production process and safety are usually realized simply by using presaturated wipes instead of more traditional wiping methods.**

**Packing :** 100 fleece canister.

<p><b>Composition</b></p>	<p>Each wipe contains :Isopropyl Alcohol - 45%W/W, N,Propanol-30% W/W. Other Ingredients: DM Water, Propylene Glycol ,Glycerol , Mecetronium Ethyl sulphate Fragrances,Emollients, Moisturizers and Skin Care Ingredients and Absorbent Wipes.</p>
<p><b>Microbicidal Properties</b></p>	<p>Bactericidal,Fungicidal,Tuberculocidal,Virucidal against enveloped virus (incl. HBV, HIV, HCV, SARS Virus), Adeno,Polio and Rotavirus.</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>• Sterifast™ Disinfectant Wipes can reliably reduce the danger of contact infections on hands, skin and alcohol resistant surfaces.</li> <li>• Skin caring additives protect hands and skin, even with frequent use.</li> <li>• Reduces the germ flora by more than 99.99 % within 30 sec.</li> <li>• Reliably effective against highly contagious microbes.</li> <li>• Applicable everywhere.</li> <li>• Gentle to skin through replenishing substances.</li> <li>• Contains skin-protecting components.</li> </ul>
<p><b>Mode of Action</b></p>	<p>Sterifast™ possesses remarkable residual and persistent effect. The formulation permits penetration in the skin. There it forms a defensive barrier against microorganisms which rise to the surface of the skin with sweat. The number of microorganisms on the hands in the surgical gloves therefore remains low for several hours.</p>
<p><b>Areas of Application</b></p>	<ul style="list-style-type: none"> <li>• Disinfection of alcohol resistant surfaces ,equipments and instruments.</li> <li>• Disinfecting hands, surface, devices and articles contaminated with pathogens.</li> <li>• Applicable universally and everywhere.</li> <li>• Provide safety at work, when traveling and in other hygiene relevant situations.</li> <li>• Used for the hygienic hand disinfection and skin antiseptis as well as for the disinfection of alcohol-resistant surfaces.</li> <li>• Disinfecting hands before after the care of sick, elderly and babies.</li> <li>• In home dialysis.</li> <li>• For disinfecting toilet seats, telephone receivers and toys.</li> </ul>
<p><b>Method of Application</b></p>	<p>Cleaning and disinfection of surface:  <b>Normal surface:</b> Wipe the surface with wet wipe until the surface is visibly wet. Let the surface remain wet. Allow to air dry.  <b>Dirty surface:</b> Clean the surface first with a cloth or sheet. Wipe the surface with wet wipe. Allow to air dry. Surfaces contaminated with virus must be cleaned from the surface with a sheet before disinfecting with Sterifast™ Wipes.</p>
<p><b>Wipe Dimension</b></p>	<p>C0184 : 8” x 10”  C0185 : 5” X 7”</p>

## HiCare Peroxy 6 % SAT Sterile Wipe System (C0252)

HiCare Peroxy 6% is a blend of 6% hydrogen peroxide and purified water and is effective against bacteria, fungi, moulds, yeasts and spores. HiCare Peroxy 6 % wipe is presaturated wipe achieving a greater than log 3 kill against fungal and bacillus spores in 2 mins. HiCare Peroxy 6 % wipe leaves little-to-no residue making it ideal for use in critical areas. HiCare Peroxy 6 % wipe is provided as a point-of-use saturated wipes system. Each double bagged pack contains a canister of 100 x 40 gsm Hydrophilic Meltblown blown PP dry wipes and a 500 ml capped bottle of HiCare peroxy 6%. Simply add 500 ml of HiCare Peroxy 6% to the dry roll, 5 minutes before use, and use the impregnated wipes. HiCare Peroxy 6% is 0.2 micron filtered. The sterile product is filtered into pre-irradiated components. The dry wipe canister is irradiated at not less than 25 kGy.

**Leaves little to no residue, making it ideal for critical areas.**

<b>Features and Benefits</b>	
Impregnated wipes at point of use.	Convenient and controlled application of disinfectant.
Sporicidal activity in 2 mins.	Fast and easy to use.
Hydrogen peroxide breaks down to water and oxygen.	Very low residue so suitable for product contact areas.
	Saves times since no residue removal is required.
	Ideal for a Grade A / B area.
100 Meltblown PP wipes in a canister.	High quality wipe for transfer disinfection.
	Reduces amount of packaging generated.
Sterile version available.	Suitable for Grade A and B clean rooms.
Filtered to 0.2 microns.	Ensures the product is free from contamination and particulates.
Not classified as corrosive	Good operator acceptability as low odour and hazard.
Double bagged in linear tear packaging	Each bag is easy to open even when wearing gloves.

### **Wipe Dimension**

6" x 8 "

## HiCare Wipe Dispensing System (C0253)



**HiCare Wipe Dispensing System is a refillable, all-purpose fleece wipe dispenser for the surface disinfection. Wipe dispensing system reduces the preparation time and guarantees a high hygiene standard. The high-quality of wipe dispensing system ensures low consumption of fleece wipes and disinfectant. It protects use solution against contamination and evaporation.**

<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>• Universally applicable .</li> <li>• Economic consumption of wipes and use-solution .</li> <li>• Protects use-solution against contamination and evaporation.</li> <li>• Coloured dispensing system for better product differentiation.</li> <li>• Tear-proof and absorbent fleece.</li> <li>• Solid dispenser with attached handle.</li> <li>• For all liquid HiCare surface disinfectants.</li> </ul>
<p><b>Content</b></p>	<ol style="list-style-type: none"> <li>1. Wipe dispenser.</li> <li>2. A lid with integrated dispensing system.</li> <li>3. A dry wipe fleece roll in a protective cover.</li> <li>4. A ascribable label.</li> </ol>
<p><b>Description</b></p>	<ol style="list-style-type: none"> <li>1.Wipe Dispenser: The wipe dispenser is made of acid and alkali resistant high grade sturdy HDPE . The shape of dispenser is very convenient to carry it to the application area. The dispenser carries a roll of wet wipe soaked with the required quantity ready to use solution of the desired HiCare brand of disinfectants.</li> <li>2.The dispensing system lid: It is also made of high grade sturdy HDPE. The lid contains another lid fixed at the center of the lid with center hole for drawing the wipe. A recognizable audible click is emitted when the lid is closed, this ensures air tight closure of the wipe dispensing system. The design of the dispensing system's opening ensures an easy withdrawal single fleece wipes. The dispensing system lid is available in blue, green, red and yellow, in order to differentiate the dispenser as per the use of the disinfectant concentrate. The color as indicated above are: <ul style="list-style-type: none"> <li>• Blue-Aldehyde based disinfectants.</li> <li>• Green-Aldehyde free disinfectants.</li> <li>• Red-Alcohol based disinfectants.</li> <li>• Yellow- other disinfectants.</li> </ul> </li> <li>3. HiCare Wipes Rolls: The wipe rolls are selected on the basis of their application. Following wipe rolls are used in the Hicare wipe dispensing system : <ol style="list-style-type: none"> <li>(I) Hydrophilic Meltblown blown PP and Hydrophilic PET. Meltblown PP and PET are lint free fabric . They are used for cleaning and disinfection of hard surface and all types of objects. They are extensively used in the clean rooms where dust free environment is required to be maintained.</li> <li>(ii) Polyester fabric are spunlaced fabric having very good tensile strength and high liquid absorbency. They are widely used in all the cleaning operations.</li> <li>(iii) Viscose is spunlaced fabric with excellent liquid absorbency and very soft feel. They are used in surface cleaning as well as cleaning of the hand and body.</li> </ol> </li> <li>4. Wipe roll protection cover: The wipe roll in the HiCare dispensing system are packed in a thick polypropylene protective cover. The protective cover prevents the use-solution from contamination or evaporation.</li> </ol> <p>The HiCare Wipes dispenser system is intended for use with all HiCare surface disinfectants at exposure times of 1 hour or less (according to the VAH —Association for Applied Hygiene). The HiCare wipes dispenser is filled with ready to use solution made in accordance to the chart.( Refer page No 13) While preparing the use-solution, the respective product's application and safety related directions should be followed.</p>



## HiCare Wipe Dispensing System (C0253)

### Procedure For Soaking the wipe roll

1. Select dispensing system cap colour in accordance to the type of disinfectant to be used. (e.g. blue cap - aldehyde based, green cap - aldehyde-free, red cap - alcohol-based, yellow cap - all other products). Put on gloves to avoid contamination of the fleece roll.
2. Cut open the dry fleece roll protective cover and put the fleece roll in the dispenser along with the protective cover. slightly pull out the first wipe from the middle of the roll.
3. Prepare ready to use solution of the desired disinfectant as per the chart.(Refer page 13) Slowly pour the solution into the dispenser, more precisely, spirally from the fleece roll's middle to its outside in order to ensure a complete saturation. After 10 minutes, the evenly saturated roll is ready for use.
4. Draw first Wipe from the roll's middle through the opening of the central lid of the dispensing system and discard it. Pull out the second wipe from the centre opening slightly till it is visible. Shut the central lid . Put the outer lid on dispenser and press until it fits firmly on the dispenser.
5. Complete label and stick it on the indicated area on the Wipes dispenser
  1. Put on gloves .
  2. Insert fleece wipe roll .
  3. Add use-solution .
  4. Draw fleece wipe through dispensing system.
  5. Inscribe and stick on label.



### Reprocessing HiCare wipe Fleece Dispensing System

HiCare wipes soaked with disinfectant liquid can be used for 15 days without diminishing the efficacy. When the products are changed and same dispensing system is used for the new products. Following steps should be taken for reprocessing.

- Discard the left over fleece and disinfectant liquid
- Thoroughly rinse the dispenser and lid with water and dry.
- Disinfect the dispenser and lid with pre soaked 70% IPA wipes.

After the dispenser and lid are completely dry refill the dispenser with new roll and soak it with freshly prepared use solution. Follow the filling procedure given above. The freshly prepared wipe can be used for 15 days.

### Areas of Application

HiCare - Wipes are recommended for the cleaning and surface disinfection in hospitals, nursing homes, where a maximum level of hygiene, efficiency, and convenience is desired. It is also used in areas which require repeated cleaning every day, as the one-time use of wipe assures a high level of hygiene as well as a reduced preparation time. The wipes are very effective for cleaning and disinfecting areas which are difficult to access. The areas where the wipes can be effectively used are: Cleaning and disinfecting work surface, stretchers, hospital beds, bedside tables and other surfaces in the proximity of the patients. Surfaces in isolation rooms for prevention of cross contamination in critical areas like operation theaters, ICU and other sensitive areas.

## HiCare Wipe Dispensing System (C0253)

### Chart for Preparation of the in use disinfectant solution for the HiCare Wipe Dispenser System:

Sr.No.	Product	Qty. of conc. required for 100 fleece roll	Qty. of conc. required for 50 fleece roll	Qty. of purified water required for preparation of soln. for 100 fleece roll	Qty. of purified water required for preparation of soln. for 50 fleece roll	Total Qty. of disinfectant soln. required for 100 fleece roll	Total Qty. of disinfectant soln. required for 50 fleece roll	Material of wipe fabric
1	InstaCull™	Use Undiluted	Use Undiluted	Use Undiluted	Use Undiluted	600 ml	300 ml	Meltblown PP
2	InstaCull™ Classic	Use Undiluted	Use Undiluted	Use Undiluted	Use Undiluted	800 ml	400 ml	Meltblown PP
3	Sterifast™	Use Undiluted	Use Undiluted	Use Undiluted	Use Undiluted	800 ml	400 ml	Polyster-Viscous
4	Hishield™ Wipe	Use Undiluted	Use Undiluted	Use Undiluted	Use Undiluted	600 ml	300 ml	Polyster-Viscous
5	Sterifast™ Plus Wipe	Use Undiluted	Use Undiluted	Use Undiluted	Use Undiluted	600 ml	300 ml	Polyster-Viscous
6	HiQuat RTU	Use Undiluted	Use Undiluted	Use Undiluted	Use Undiluted	600 ml	300 ml	Meltblown PP
7	70% IPA	Use Undiluted	Use Undiluted	Use Undiluted	Use Undiluted	600 ml	300 ml	Meltblown PP
8	Hister Plus	15 ml	7.5 ml	585 ml	292.5 ml	600 ml	300 ml	Meltblown PP
9	HiGlutquat Plus	20 ml	10 ml	580 ml	290 ml	600 ml	300 ml	Meltblown PP
10	AlkaSept™ Active	22 ml	11 ml	578 ml	289 ml	600 ml	300 ml	Meltblown PP
11	HiQuat D 531	18 ml	9 ml	582 ml	291 ml	600 ml	300 ml	Meltblown PP
12	HiQuat D 541	20 ml	10 ml	580 ml	290 ml	600 ml	300 ml	Meltblown PP
13	Hi Glut TH-4	25 ml	12.5 ml	575 ml	287.5 ml	600 ml	300 ml	Meltblown PP
14	HiQuat Citrus	20 ml	10 ml	580 ml	290 ml	600 ml	300 ml	Meltblown PP
15	HiQuat D331	75 ml	37.5 ml	525 ml	262.5 ml	600 ml	300 ml	Meltblown PP
16	HiQuat D905	20 ml	10 ml	580 ml	290 ml	600 ml	300 ml	Meltblown PP
17	Higuard Advance	18 ml	9 ml	582 ml	291 ml	600 ml	300 ml	Meltblown PP
18	Higuard Active	15 ml	7.5 ml	585 ml	292.5 ml	600 ml	300 ml	Meltblown PP

## Hicare Antimicrobial Hand Wash (C0244)




**HiCare Antimicrobial Hand Wash is a broad- spectrum antimicrobial hand wash, effective against all types of bacteria, fungi and enveloped viruses. Recommended for cleaning visibly soiled hands as an antiseptic hand wash.**

**Packing:** 250 ml and 500 ml.

<p><b>Composition</b></p>	<p>Each ml contains : Benzalkonium Chloride 0.1% with Aqua,Behentrimonium Chloride,Cetrimonium Chloride,Glycerin, Lauramidopropyl amine oxide,Cocamide MEA,Decyl Glucoside,Coco Glucoside,Glyceril Oleate, PEG-7 Glyceryl Cocoate, Cocamidopropyle Betain, Cocamidopropyl Hydroxysultaine, Laurylamineoxide, Sodium Chloride,Polysorbate-20,Citric acid,Tetra Sodium EDTA,Methyl chlorisothiazolinone,Methylisothiazolinone, Propylene Glycol,Phenoxyethanol,Permitted Colour,Fragrance.</p>
<p><b>Microbicidal Properties</b></p>	<p>Effective at eliminating 99.99 % of many common harmful germs and bacteria within 15 seconds.</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>• HiCare Hand Wash is an antiseptic wash gel with replenishing properties and a broad spectrum of antiseptic effect.</li> <li>• Through selected and skin friendly ingredients, the wash Gel possesses a considerably better skin compatibility than conventional decontamination preparations</li> <li>• Stable consistency allows a long contact time with the skin so that dried soils are easily dissolved</li> <li>• Broad- spectrum bactericidal activity. Skin nurturing properties.</li> <li>• Skin-friendly pH value of approx.6.5. Excellent mucous membrane tolerability. Improves skin tolerance.</li> <li>• Enriched with moisturising agents</li> <li>• Tested under medical conditions</li> <li>• Broad Spectrum Efficacy (bacteria, yeast &amp; virus)</li> <li>• Maintains skin balance without dryness. Readily Biodegradable. Environmentally friendly</li> <li>• Excellent foaming power.</li> <li>• Ethylene oxide and 1,4-dioxane free.</li> </ul>
<p><b>Mode of Action</b></p>	<p>Active ingredient of HiCare Antimicrobial Hand Wash Benzalkonium Chloride has broad-spectrum antimicrobial properties against bacteria, fungi and enveloped viruses. It inactivates the energy producing enzymes, causes denaturation of essential cell proteins and disruption of the cell membrane. The mechanism of microbicidal action is due to disruption of intermolecular reactions. Benzalkonium chloride is cationically charged and induces antibacterial action through attraction to the negatively charged bacterial membrane. Unique moisturizing and surfactant system of HiCare Antimicrobial Hand wash help attract moisture to the skin, resulting in a smoother, softer complexion with decreased wrinkles and a more plump appearance. It nourishes the skin and gives non-greasy texture that spreads fast. It is non irritant and exhibit non-greasy hydrating properties, which cleans the skin while its conditioning property prevents it from drying out.</p>
<p><b>Areas of Application</b></p>	<ul style="list-style-type: none"> <li>• Recommended for antiseptic hand washing. HiCare Hand Wash has an excellent dermatological tolerability.</li> <li>• Disinfecting and cleaning visibly soiled hands as antiseptic hand wash.</li> <li>• Recommended for repeated washing.</li> </ul>
<p><b>Method of Application</b></p>	<p>Disperse enough gel on wet hands. Rub briskly over all surfaces including fingernails for 1 minute and wash hands with clean water. Repeat the process in case of handling suspected articles.</p>

## HiCare Antimicrobial Foam Hand Wash (C0286 )

	<p><b>HiCare Antimicrobial Foam Hand Wash is a broad spectrum antimicrobial hand wash effective against all types of bacteria , fungi and enveloped viruses. It is non irritant and soft to skin. Recommended for repeated cleaning of hands.</b></p> <p><b>Packing : 1 ltr and 5 ltr.</b></p>
<p><b>Composition</b></p>	<p>Active Ingredients: Benzalkonium Chloride 0.1% Inactive Ingredients : Purified Water,Glycerin,Lauramine Oxide,Centrimonium Chloride,Cocamidopropyl Betaine,Coco Glucoside,Tetrasodium EDTA, Alcohol, Decyl Glucoside, Coco Caprylate, Phenoxyethanol, Propylene glycol , Methyl chlorisothiazolinone, Methy isothiazolinone, Permitted colour, Perfume.</p>
<p><b>Microbicidal Properties</b></p>	<p>Effective at eliminating 99.99 % of many common harmful germs and bacteria within 15 seconds.</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>• HiCare Foam Hand Wash is an antiseptic wash with replenishing properties and a broad spectrum of antiseptic effect.</li> <li>• Through selected and skin friendly ingredients the wash possesses a considerably better skin compatibility than conventional decontamination preparations.</li> <li>• The stable consistency allows a long contact time with the skin, so that dried soils are easily dissolved as well.</li> <li>• Broad spectrum bactericidal activity .</li> <li>• Skin nurturing properties.</li> <li>• Skin-friendly pH value of approx.6.5 ,very good skin compatibility and good mucous membrane tolerability.</li> <li>• Improves skin tolerance.</li> <li>• Maintains skin balance without dryness.</li> <li>• Readily Biodegradable.</li> <li>• Environmentally friendly.</li> <li>• Maintains skin balance.</li> <li>• Good foaming power.</li> </ul>
<p><b>Mode of Action</b></p>	<p>Active ingredient of HiCare Antimicrobial Foam Hand Wash Benzalkonium chloride has broad spectrum antimicrobial properties against bacteria, fungi and enveloped viruses. It inactivates the energy producing enzymes , causes denaturation of essential cell proteins and disruption of the cell membrane. The mechanism of microbicidal action is due to disruption of intermolecular reactions. Benzalkonium chloride is cationically charged and induces antibacterial action through attraction to the negatively charged bacterial membrane. Unique moisturizing , surfactant and foaming system of HiCare Antimicrobial Foam Hand wash help attract moisture to the skin, resulting in a smoother, softer complexion with decreased wrinkles and a more plump appearance. It nourishes the skin and gives non-greasy texture that spreads fast. It is non irritant and exhibit non greasy hydrating properties which cleans the skin while its conditioning property prevents it from drying out.</p>
<p><b>Areas of Application</b></p>	<ul style="list-style-type: none"> <li>• Recommended for antiseptic hand washing .</li> <li>• Cleaning visibly soiled hands after contact with contaminated surface areas.</li> <li>• Recommended for repeated washing.</li> </ul>
<p><b>Method of Application</b></p>	<p>Disperse enough foam on the wet hand . Rub briskly over all surfaces including finger nails for 1 minute and wash hands with clean water.</p>

## HiCare Alcohol Foam Hand Sanitizer (C0243)



**HiCare Alcohol Foam Hand Sanitizer has broad-spectrum disinfectant cum antiseptic property. It is a rub in hand disinfectant for hygienic and surgical hand disinfection. Dries quickly and provides excellent skin care. Effective against enveloped viruses and most common bacteria within 30 seconds.**

**Packing : 1 ltr and 5 ltr.**

<b>Composition</b>	Each ml contains : Ethyl Alcohol I.P. : 70 % V/V, Benzalkonium Chloride IP : 0.25 % W/V with Isopropyl Alcohol, PEG- 12 Dimethicon, Glycerine, Isopropyl Myristate, Tocopheryl Acetate, Aloe Vera, Caprylyl Glycol, Propylene Glycol, PEG-7 Glyceryl cocoate, Glyceryl Oleate and Fragrance.
<b>Microbicidal Properties</b>	Bactericidal, Fungicidal, Tuberculocidal, Virucidal against enveloped virus (incl. HBV, HIV, HCV, SARS Virus), Adeno, Polio and Rotavirus.
<b>Features</b>	<ul style="list-style-type: none"> <li>• No sticky after feel.</li> <li>• Excellent skin care properties.</li> <li>• Quicker application.</li> <li>• No mess .</li> <li>• Spreads easily .</li> <li>• Non-clogging .</li> <li>• Reduced risk of “slips, trips and falls” .</li> <li>• Effervescent.</li> </ul>
<b>Mode of Action</b>	70% ethanol causes the protein of the cell of the microorganism to coagulate at a slow rate. This allows ethanol to penetrate the entire cell before the cell has a chance for its coagulation to block ethanol. The entire cell is then coagulated causing the cell to die. The rich and stable foam of HiCare Foam hand sanitizer creates longer contact time for Ethanol and slows the drying time of ethanol. HiCare Foam Hand Sanitizer kills microbes in 10 seconds. HiCare Foam Hand Sanitizer, possesses remarkable residual and persistent effect. It penetrates into the stratum Corneum of the skin. There it forms a defensive barrier against microorganisms which rise to the surface of the skin with sweat. The number of microorganisms on the hands in the surgical gloves therefore remains low for a period on several hours. Unique moisturizing system of HiCare hand sanitizer help attract moisture to the skin resulting in a smoother, softer complexion with decreased wrinkles and a more plump appearance. It nourishes the skin and gives non-greasy texture that spreads fast.
<b>Areas of Application</b>	HiCare Foam Hand Sanitizer is suitable for hygienic disinfection. The preparation is used in all areas where aseptic hand disinfection is important.
<b>Method of Application</b>	<p><b>For Hygienic Hand Disinfection :</b> Put enough product (One push of the pump) in your palm to cover hands. Rub thoroughly &amp; briskly over entire surface of both hands including nails and grooves for 30 seconds.</p> <p><b>For Aseptic and Surgical Hand Disinfection:</b> Put enough product (Two push of the pump) in your palm . Rub thoroughly &amp; briskly over entire surface of both hands including nails, grooves and up to elbow for 3 minutes.</p>



## HiCare Hand Sanitizer Gel (C0245)




**HiCare Hand Sanitizer Gel with broad-spectrum disinfectant -cum-antiseptic property. Dries quickly and provides excellent skin care. Effective against enveloped viruses and most common bacteria within 30 seconds.**

**Packing** :100 ml and 500 ml.

<b>Composition</b>	Each ml contains : Ethyl Alcohol 70 % Inactive Ingredients: Water (Aqua) , Isopropyl Alcohol, Glycerin, Isopropyl Myristate, Tocopheryl Acetate, Acrylates/C10-30 Alkyl Acrylate Cross polymer, Amino methyl Propanol, Caprylyl Glycol, Aloebarbedensis Juice, Propylene Glycol, Fragrance .
<b>Microbicidal Properties</b>	Bactericidal, Fungicidal, Tuberculocidal, Virucidal enveloped virus (incl. HBV, HIV, HCV, SARS Virus), Adeno, Polio and Rotavirus.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Comprehensive spectrum of activity.</li> <li>• Exceptional skin tolerance even with long-term use .</li> <li>• Excellent skin protection and skin care properties .</li> <li>• Unique system of skin moisturizers in HiCare hand sanitizer gel keeps skin smooth and soft .</li> </ul>
<b>Mode of Action</b>	70% ethanol causes the protein of the cell of the microorganism to coagulate at a slow rate. This allows ethanol to penetrate the entire cell before the cell has a chance for its coagulation to block ethanol. The entire cell is then coagulated causing the cell to die. The gel form of the sanitizer slows the drying time of ethanol creating a longer contact time. 70% Ethanol based gel sanitizer kills microbes in 30 seconds. Unique moisturizing system of HiCare hand sanitizer help attract moisture to skin resulting in a smoother, softer complexion with decreased wrinkles and a more plump appearance. It nourishes the skin and gives non-greasy texture that spreads fast.
<b>Areas of Application</b>	HiCare Hand Sanitizer gel is suitable for hygienic disinfection. The preparation is used In all areas where aseptic hand disinfection is important.
<b>Method of Application</b>	Put enough product in your palm to cover hands and rub hands together briskly until dry.

## HiCare Non Alcoholic Foam Hand Sanitizer (NAHS) (CO287)

	<p><b>HiCare Non Alcoholic Hand Sanitizer ( NAHS) is no rinse hand Sanitizer. It is effective in reducing the microorganisms on the hand . This product is intended for use on hands to reduce the microorganism that cause infection</b></p> <p><b>Packing : 1 ltr and 5 ltr</b></p>
<p><b>Composition</b></p>	<p>Each ml contains : Benzethonium Chloride BP- 0.2% W/V. with Betaine Anhydrous, Glycerine,Decyl Glucoside,Coco Glucoside,Aloe barbadensis juice,Behentrimonium Chloride, Cetrimonium Chloride,Caprylyl Glycol,Propylene Glycol,Methylisothiazolinone,Phenoxy Ethanol, Methylchloroisothiazolinon, PEG -7 glyceryl cocoate,Polysorbate -20,Fragrance.</p>
<p><b>Microbicidal Properties</b></p>	<p>Effective in eliminating 99.99 % of many common harmful germs and bacteria within 30 seconds.</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>• Broad spectrum activity against both gram positive and gram negative bacteria, fungi and viruses.</li> <li>• Bactericidal effect may be present even after 6 hours of usage.</li> <li>• Efficacy improves with repeated usage.</li> <li>• Stable and non flammable.</li> <li>• Since it is water-based, it can break through dirt and has no drying action on skin like alcohol.</li> <li>• No sensitization of skin.</li> <li>• Does not require rinsing before and after application.</li> <li>• No harsh effect on industrial floor wax, paint, and materials.</li> <li>• Unlike alcohol based hand sanitizer, it is nonflammable.</li> <li>• Quicker application.</li> <li>• No mess .</li> <li>• Spreads easily.</li> <li>• Non-clogging .</li> <li>• Reduced risk of “slips, trips and falls” .</li> <li>• Effervescent.</li> </ul>
<p><b>Mode of Action</b></p>	<p>Active ingredient of HiCare NAHS Benzethonium chloride has broad spectrum antimicrobial properties against bacteria, fungi and enveloped viruses. It inactivates the energy producing enzymes , causes denaturation of essential cell proteins and disruption of the cell membrane. The mechanism of microbicidal action is due to disruption of intermolecular reactions. Benzethonium chloride is cationically charged and induces antibacterial action through attraction to the negatively charged bacterial membrane. Unique moisturizing system of HiCare hand sanitizer help attract moisture to the skin, resulting in a smoother, softer complexion with decreased wrinkles and a more plump appearance. It nourishes the skin and gives non-greasy texture that spreads fast.</p>
<p><b>Areas of Application</b></p>	<p>HiCare NAHS is suitable for hygienic disinfection. The preparation is used in all areas where aseptic hand disinfection is important.</p>
<p><b>Method of Application</b></p>	<p>Pump enough foam on your palm to cover hands and rub hands together briskly until dry.</p>

## Zentol (C0025/26/27/169)



**Zentol is an alcohol based instant disinfectant hand rub suited for pre and Post surgical antisepsis. Kills 99.99% of microbes within 30 seconds. Zentol has got prolonged residual effect. It leaves hands feeling refreshed without stickiness.**

**Packing** : 100 ml, 500 ml and 5 ltrs.

<p><b>Composition</b></p>	<p>Each ml Contains : Ethyl Alcohol IP - 70 %V/ V, Chlorhexidine Gluconate Solution 2.5 w/v with Emollients, Moisturizers and Skin Care ingredients.</p>
<p><b>Microbicidal Properties</b></p>	<p>Bactericidal, Fungicidal, Tuberculocidal, Virucidal .</p>
<p><b>Features</b></p>	<p>The ethanol-based hand rub Zentol combines a comprehensive antimicrobial effect with excellent skin protection and care properties.</p> <ul style="list-style-type: none"> <li>▪ The product is suitable for hygienic and surgical hand disinfection in all areas where hygiene is relevant.</li> <li>▪ Acts rapidly and comprehensively.</li> <li>▪ Excellent skin care effect.</li> <li>▪ Useable anywhere.</li> <li>▪ Dries quickly without leaving any residue.</li> </ul>
<p><b>Mode of Action</b></p>	<p>70% ethanol causes the protein of the cell of the microorganism to coagulate at a slow rate. This allows ethanol to penetrate the entire cell before the cell has a chance for its coagulation to block ethanol. The entire cell is then coagulated causing the cell to die. 70 % ethanol of the rub slows the drying time of ethanol creating a longer contact time and kills microbes in 30 seconds. Unique moisturizing system of Zentol help attract moisture to skin resulting in a smoother, softer skin. It nourishes the skin and gives non-greasy texture that spreads fast. Chlorhexidine Gluconate is bactericidal / bacteriostatic against wide range of gram-positive and gram-negative bacteria. It kills yeast, fungi and viruses also. It is most active at a neutral and slightly acidic pH. Combination of Chlorhexidine Gluconate and alcohol enhances the efficacy of lethal effect. It can be used as a surgical rub to reduce the number of microorganisms on hands and forearms.</p>
<p><b>Areas of Application</b></p>	<p>Zentol is suitable for hygienic disinfection. The preparation is used In all areas where aseptic hand disinfection is important.</p>
<p><b>Method of Application</b></p>	<p>For Hygienic hand disinfection :Rub Zentol Two pushes of Calibrated dispenser pump ( 3 ml) on the clean dry hands ,nails and groves for 30 secs. For Surgical hand Disinfection: Rub Zentol 6 pushes ( 9 ml.) of the dispenser pump over the clean dry hand, nails, groves up to elbow. Rub vigorously for 3 minutes. <b>For wipe dispensing system</b> For 100 wipe roll use 600 ml Zentol solution. For 50 wipe roll use 300 ml Zentol Solution. Use viscose - polyester soft wipe roll. Procedure for impregnation is given in wipe dispensing section.(C0253).</p>

## Sterifast™ ( C0129)



**Sterifast™ has got very good residual and persistent effect. It reduces the transient flora by more than 99.99 % in 30 sec. It performs surgical hand disinfection within 1.5 min. It has exceptionally good skin tolerability even with long term use and has excellent skin protection and skin care properties.**

**Packing : 500 ml**

<p><b>Composition</b></p>	<p>Each 100 gms Contains :                  Propan-2-ol : 45 g , Propan-1-ol : 30 g , Mecetronium Ethyl Sulfate : 0.2 g.                  With Purified Water, Propylene Glycol, Glycerol , Fragrances, with Emollients, Moisturizers and Skin Care Ingredients.</p>
<p><b>Microbicidal Properties</b></p>	<p>Bactericidal, Fungicidal, Tuberculocidal, Virucidal .</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>▪ Very good residual and persistent effect.</li> <li>▪ Reduces the transient flora by more than 99.99 % in 30 s.</li> <li>▪ Surgical hand disinfection within 1.5 min.</li> <li>▪ Exceptionally good skin tolerability even with long term use.</li> <li>▪ Excellent skin protection and skin care properties.</li> </ul>
<p><b>Mode of Action</b></p>	<p>75% IPA- N propanol causes the protein of the cell of the microorganism to coagulate at a slow rate. This allows ethanol to penetrate the entire cell before the cell has a chance for its coagulation to block ethanol. The entire cell is then coagulated causing the cell to die. 75% IPA- N propanol of the rub slows the drying time of IPA- N propanol creating a longer contact time and kills microbes in 30 seconds. Sterifast™ possesses remarkable residual and persistent effect. The formulation permits penetration in the skin. There it forms a defensive barrier against microorganisms which rise to the surface of the skin with sweat. The number of microorganisms on the hands in the surgical gloves therefore remains low for several hours.</p>
<p><b>Areas of Application</b></p>	<p>Sterifast™ is suitable for hygienic disinfection. The preparation is used in all areas where aseptic hand disinfection is important.</p>
<p><b>Method of Application</b></p>	<p>For Hygienic hand disinfection :Rub Sterifast™ two pushes of calibrated dispenser pump (3 ml) on the clean dry hands ,nails and groves for 30 secs.                  For Surgical hand disinfection: Rub Sterifast™ 6 pushes ( 9 ml.) of the dispenser pump over the clean dry hand, nails, groves up to elbow. Rub vigorously for 3 minutes.</p> <p><b>For Wipe Dispensing System</b></p> <p>For 100 wipe roll use 600 ml Sterifast™ solution                  For 50 wipe roll use 300 ml Sterifast™ solution.                  Use viscose - polyester soft wipe roll.                  Procedure for impregnation is given in wipe dispensing section.( C0253)</p>

## Chlorodent Mouth Wash (CO 270)



**Chlorodent Mouth Wash is an antimicrobial solution which inhibits the formation of dental plaque. It is used as an aid in the treatment and prevention of gingivitis and in the maintenance of oral hygiene, particularly in situations where tooth brushing cannot be adequately employed (e.g. following oral surgery, in mentally or physically handicapped patients).**

**Packing** : 100 ml and 500 ml.

<b>Composition</b>	Each ml Contains : Chlorhexidine Gluconate- 0.2%W/V, Ethanol IP-7% V/V With Polysorbate-80, Peppermint Oil, Sorbitol, Glycerine, Purified Water.
<b>Microbicidal Properties</b>	Effective against a wide range of gram negative and gram positive vegetative Bacteria, Yeasts, Dermatophyte, Fungi and Lipophilic Viruses.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Highly effective in control and prevention of dental caries.</li> <li>• Controls gingival inflammation and bleeding .</li> <li>• Effective against wide range of micro-organisms including gram positive and gram negative bacteria .</li> <li>• Significantly reduces bacterial count in 5 minutes after rinsing .</li> <li>• Reduces extent of tooth decay.</li> <li>• Used as an aid in the treatment and prevention of gingivitis</li> <li>• Used in a post-peridontal surgery or treatment to promote gingival healing.</li> <li>• Useful in the management of aphthous ulceration and oral candidal infections</li> </ul>
<b>Areas of Application</b>	Maintenance of Oral Hygiene.
<b>Method of Application</b>	Thoroughly rinse the mouth for about one minute with 10 ml twice daily. In the dental surgery the patient should be instructed to rinse the mouth for one minute prior to treatment. For the treatment of dental stomatitis the dentures should be cleansed and soaked in Chlorodent mouth wash for fifteen minutes twice daily.



## Hishield™ PVP Gargle and Mouth Wash (C0271)



**Hishield™ PVP Gargle and Mouthwash contains povidone iodine, a complex of iodine which shows all the broad spectrum germicidal activity of elemental iodine. The germicidal activity is maintained in the presence of blood, pus, serum and necrotic tissue. It is useful in the treatment of acute mucosal infections of the mouth and pharynx, like gingivitis, and mouth ulcers and oral hygiene prior to, during and after dental and oral surgery.**

**Packing :** 100 ml and 500 ml

<b>Composition</b>	Each ml contains : Povidone Iodine IP-1 % W/V, Ethanol IP - 8.38% V/V Other Ingredients : Glycerol , Menthol, Methyl Salicylate, Saccharin Sodium; Purified Water
<b>Microbicidal Properties</b>	Microbicidal against most Bacteria, Fungi, Protozoa, Viruses and Yeasts
<b>Features</b>	<ul style="list-style-type: none"> <li>• Highly effective in control and prevention of dental caries.</li> <li>• Controls gingival inflammation and bleeding.</li> <li>• Effective against wide range of micro-organisms including gram positive and gram negative bacteria.</li> <li>• Significantly reduces bacterial count in 5 minutes after rinsing.</li> <li>• Reduces extent of tooth decay.</li> <li>• Used as a mouthwash for the antisepsis of mucosal or gingival surfaces as an adjunct in oral, surgical and dental practice.</li> <li>• Symptomatic relief of minor throat infection.</li> </ul>
<b>Areas of Application</b>	Use undiluted or diluted with an equal volume of warm water. Gargle or rinse with up to 10ml for up to 30 seconds without swallowing. Repeat up to four times daily, for up to 14 consecutive days, or as directed.
<b>Method of Application</b>	For Infections of Mouth and Throat: Use full strength and rinse or gargle for 30 seconds, then spit out. Repeat hourly, or as directed by physician or dentist.

## Hishield™ PVP 5 % Solution ( CO188/189/190)



**Hishield™ PVP 5% Solution is an effective antiseptics. It inactivates most of the common microbes which cause disease including-bacteria, fungi and some of the viruses. The brown colour of Hishield™ 5 % Solution antiseptics shows the area that has been treated and also denotes the activity of the product.**

**Packing :** 100 ml , 200 ml and 500 ml

<b>Composition</b>	Each 100 ml contains 5 gms Povidone Iodine equivalent to 0.5 gms of available iodine.
<b>Microbicidal Properties</b>	Effective against sensitive organisms like Bacteria, Fungus, Protozoa and present on the skin.
<b>Features</b>	<ul style="list-style-type: none"> <li>■ Inactivates infecting organisms.</li> <li>■ Non irritating and nonstinging to the skin.</li> <li>■ Delivers a microbicidal mist on wounds too tender to touch.</li> <li>■ Does not leave permanent stain on skin/ natural fabrics.</li> <li>■ Multivalent broad spectrum local antiseptic.</li> <li>■ Doesn't have any ill-effects on the skin.</li> </ul>
<b>Mode of Action</b>	Povidone-iodine is a multivalent broad spectrum local antiseptic having bactericidal and fungicidal properties. The effect on vegetative cells of various bacteria and fungi is due to the liberation of free iodine from the complex. Some viruses, protozoa, yeasts, cysts and spores are also susceptible. Hishield™ PVP 5% Solution can be used for preparation of the skin prior to surgery as it helps to reduce bacteria that potentially can cause skin infection and also significantly reduces the number of microorganisms on the hand and fore arms prior to surgery or patient care. Also its antimicrobial activity is retained in presence of blood, pus and serum.
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>■ As a topical microbicide.</li> <li>■ Heals without hurting.</li> <li>■ As antiseptic for treatment of burn, cuts, scratches, abrasion , wounds and insect bites.</li> </ul>
<b>Method of Application</b>	Use undiluted. Hold container about 4-6 inches from skin. Spray on desired area. Allow to dry. Can be bandaged. Replace the cap after use. Alternatively. Put small portion of Hishield™ PVP 5% Solution on a sterile swab and apply to the effected area.

## Hishield™ S (C0282)



**Hishield™ S** is an antiseptic liquid containing Chlorhexidine Gluconate and Cetrimide. It is a strong antiseptic liquid for first aid treatment. It protects against infection by washing out dirt and debris and killing bacteria in cuts, grazes and minor wounds without the need to touch sore or broken skin.

**Packing :** 100 ml, 500 ml and 1000 ml

<p><b>Composition</b></p>	<p>Each ml Contains : Chlorhexidine Gluconate Solution I.P.:1.5% W/V, Cetrimide: 3% W/V. Other Ingredients: DM Water, IPA, Propylene Glycol, Glycerin, Perfume and Colour</p>
<p><b>Microbicial Properties</b></p>	<p>Broad Spectrum Bactericidal and Fungicidal.</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>■ Helps to heal without hurting.</li> <li>■ Help protect against infection from cuts, scratches and insect bites.</li> <li>■ Broad spectrum of antimicrobial action.</li> <li>■ Assists in washing out dirt and debris and killing bacteria in cuts, grazes and minor wounds.</li> <li>■ Chlorhexidine Gluconate and Cetrimide are strong antibacterials that kills bacteria and prevents infection.</li> </ul>
<p><b>Mode of Action</b></p>	<p>Chlorhexidine Gluconate is a bigunide antiseptic cum disinfectant. It is effective on both Gram-positive and Gram negative bacteria. It has both bactericidal and bacteriostatic mechanisms of action, the mechanism of action being membrane disruption. It is also useful against fungi and viruses. Cetrimide is a quaternary ammonium compound. It affects and disrupts the cellular functions of microorganisms, rendering them ineffective. It has the wide spectrum of anti infectives against bacteria and fungi.</p>
<p><b>Areas of Application</b></p>	<ul style="list-style-type: none"> <li>■ All purpose low level disinfectant in hospitals and medical facilities.</li> <li>■ As a disinfectant for bathing water.</li> <li>■ As a surface disinfectant.</li> <li>■ For cleaning and disinfecting Baby or adult diaper rashes.</li> <li>■ As a disinfectant for lavatories, sinks, drains, waste bins, dustbins, on floors. kitchen, bathroom and hard surfaces where hygiene is essential.</li> <li>■ As a disinfectant/ Antiseptic in the nursery, sickroom and where pets have touched.</li> </ul>
<p><b>Method of Application</b></p>	<p>For personal hygiene or bathing to cleanse the skin and protect against germs. For all types of first aid dilute one part Hishield™ -S with 15 parts clean water. For general floor cleaning and cloth wash dilute 1 part Hishield™-S in 30 part of water</p>

## Hishield™ 4 (C0127/128)



**Hishield™ - 4 is an antiseptic wash lotion with replenishing properties and a broad spectrum of antiseptic effect. The preparation is suitable for MRSA eradication it provides a comprehensive effect against MRSA strains and clinical MRSA isolates. Through selected ingredients and the alcohol-free formulation the wash lotion possesses a considerably better skin compatibility than conventional decontamination preparations. The stable consistency allows a long contact time with the skin so that dried soils are easily dissolved as well.**

**Packing : 500 ml**

<p><b>Composition</b></p>	<p>Each ml Contains : Chlorhexidine Gluconate Solution IP 20% W/V ( equivalent to 4% W/V of Chlorhexidine Gluconate ) Other Ingredients: Glyoxyldiureide , Propyleneglycol, Coco Di Ethanol Amide, Coco Amido Propyle Betain, Glycerol, Hydroxy Propyl Methyl Cellulose, Lauryl Amine Oxide, Lauryl Diethanolamide.</p>
<p><b>Microbicidal Properties</b></p>	<p>Effective against Gram Positive, and Gram Negative Bacteria, Facultative Anaerobes, Aerobes, Fungi, Yeast, Mold and Protozoa.</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>■ Antiseptic wash lotion with a broad spectrum of antiseptic effect.</li> <li>■ Bactericidal activity. ■ Skin nurturing properties. ■ Skin-friendly pH value of approx. 5.5.</li> <li>■ Very good skin and hair compatibility and good mucous membrane tolerability.</li> </ul>
<p><b>Mode of Action</b></p>	<p>The active ingredient Chlorhexidine Gluconate is absorbed through the bacterial cell wall obstructing its permeability. It interferes with the cell's physiological activity leading to its destruction. It thus provides cumulative and residual protection against microorganisms. The preparation is suitable for MRSA eradication as it provides comprehensive effect against various MRSA strains.</p>
<p><b>Areas of Application</b></p>	<ul style="list-style-type: none"> <li>■ Antiseptic whole-body washing in case of MRSA/ORSA. It possess both a proven comprehensive activity against MRSA and has an excellent dermatological tolerability.</li> <li>■ Pre operative body washing: Hishield™ -4 with its gentle cleansing and skin caring formulation is ideal for the pre operative body washing or showering of patients prior to surgical procedures. ■ Hishield™-4 is excellent product for patient preoperative skin preparation, skin wound and general skin cleaning. ■ Cleaning visibly soiled hands Pre and Post patient contact areas as antiseptic hand wash. ■ Prevention of Bacterial and Mycotic infections, prevention of skin infection and umbilical cord infection. Washing in obstetrics, gynecology and urology. ■ Aseptic management of burns. ■ Cleaning and disinfection of equipments in the vicinity of the patient. ■ For care homes and older patients: The antiseptic and skin care properties of Hishield™ -4 make it ideal for the gentle cleansing of patients with older skin, who are confined to bed, or who suffer from incontinence (including double incontinence). Because of its moisturising properties, Hishield™-4 also help to prevent the formation of pressure sores.</li> </ul>
<p><b>Method of Application</b></p>	<p><b>Use undiluted.</b>  <b>For instant hand disinfection:</b> Disperse 3 ml. Hishield™ -4 on palm to wet hand and fingernails . Rub briskly over all surfaces for 1 minutes and wash hands with sterile water.  <b>For skin antiseptis :</b> Disperse 6ml. Gel( 2 Thumb Nail size) to wet areas of the skin to be treated . Rub briskly all over the surface for 3 minutes and wash with sterile water.  <b>For Surgical hand Disinfection :</b> Disperse 9 ml. gel well over clean and dry hand, nails and grooves up to elbow. Rub vigorously for 5 minutes to develop sufficient lather. Wash with sterile water.  <b>For Patient preoperative skin preparation;</b>          Disperse sufficient quantity of Hishield™ -4 on the effected area rub vigorously for 5 to 10 minutes develop sufficient lather. Wash the area with sterile water and wipe dry with sterile towel.  <b>For cleaning wound and abrasions:</b> Disperse Hishield™ -4 on the effected area. Wash the wound carefully with sterile water. Use sterile cloth for drying.</p>

## Hishield™ PVP Scrub (C0142/143)



**Hishield™ PVP Scrub is a microbicidal, foaming cleanser that promptly kills most of the germs. It is indicated for hand hygiene, surgical hand scrubbing, and topical de-germing of patient's skin.**

**Packing : 500 ml**

<b>Composition</b>	Each 100 gms contains 7.5 gms of Povidone Iodine equivalent to 0.75 gms of available Iodine.
<b>Microbicidal Properties</b>	It's a topical microbicide. It is effective against Bacteria, Fungi ,Yeasts , Protozoa and Viruses.
<b>Features</b>	<ul style="list-style-type: none"> <li>• A microbicidal, cleanser that promptly kills most bacteria, fungi protozoa and yeast.</li> <li>• Indicated for hand hygiene, surgical hand-scrubbing, and topical de-germing of patient's skin.</li> <li>• A multivalent broad spectrum antiseptic. It liberates free iodine which acts on the vegetative cells of bacteria and fungi.</li> </ul>
<b>Mode of Action</b>	Povidone-iodine is a multivalent broad spectrum local antiseptic having bactericidal and fungicidal properties. The effect on vegetative cells of various bacteria and fungi is due to the liberation of free iodine from the complex. Some viruses, protozoa, yeasts, cysts and spores are also susceptible. Hishield™ PVP Scrub can be used for preparation of the skin prior to surgery as it helps to reduce bacteria that potentially can cause skin infection and also significantly reduces the number of microorganisms on the hand and forearms prior to surgery or patient care.
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• Antiseptic whole-body washing.</li> <li>• Surgical hand disinfection.</li> <li>• Preoperative body washing: formulation is ideal for the pre operative body washing or showering of patients prior to surgical procedures.</li> <li>• Patient preoperative skin preparation, skin wound and general skin cleaning.</li> <li>• Cleaning visibly soiled hands pre and post patient contact areas as antiseptic hand wash.</li> <li>• Instant hand disinfection and skin antiseptis.</li> <li>• Prevention of bacterial and mycotic infections and for prevention of skin infection and umbilical cord infection.</li> <li>• Washing in obstetrics, gynecology and urology. Aseptic management of burns, cleaning and disinfection of equipments in the vicinity of the patient.</li> <li>• For care homes and older patients.</li> </ul>
<b>Method of Application</b>	<p><b>Surgical hand washes :</b> Wet hand with water. Spread about 5cc over both hand and forearms. Scrub thorough for 3 minutes. Add little water and develop copious suds. Rinse thoroughly under running water. Repeat the entire procedure using another 5 cc of scrub.</p> <p><b>Antiseptic hand wash:</b> Wet hand with water and pour about 5cc scrub on hand Rub hand vigorously for 15 seconds, covering all surfaces. Rinse and dry with a disposable towel.</p> <p><b>Patient preoperative skin preparation:</b> Apply scrub (1cc is sufficient to cover an area of 20-30 square inches.) Develop lather and scrub thoroughly for about 5 minutes. Rinse off using sterile gauze saturated with water. The area may then be painted with Hishield™ PVP Scrub and allowed to dry.</p>



## Hishield™ 5 (C0134/135)



**Hishield™ 5 with its gentle cleansing and skin caring formulation ideal for the pre operative body washing or showering of patients prior to surgical procedures.**

**Packing : 500 ml**

<b>Composition</b>	Each ml Contains : Chlorhexidine Gluconate Solution IP 25% W/V (Equivalent to 5% W/V of Chlorhexidine Gluconate ) Other Ingredients: Glyoxyldiureide , Propyleneglycol, Coco Di Ethanol Amide, Coco Amido Propyle Betain, Glycerol, Hydroxy Propyl Methyl Cellulose, Lauryl Amine Oxide, Lauryl Diethanolamide.
<b>Microbicidal Properties</b>	Effective against gram positive, and gram negative bacteria, Facultative Anaerobes, Aerobes, Fungi, Yeast, Mold and Protozoa.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Effective antimicrobial activity .</li> <li>• Immediate, cumulative &amp; residual activity .</li> <li>• Contains emollients &amp; moisturizers to care for the skin.</li> <li>• Bactericidal activity.</li> <li>• Skin nurturing properties.</li> <li>• Skin-friendly ph value of approx. 5.5.</li> <li>• Very good skin and hair compatibility and good mucous membrane tolerability.</li> </ul>
<b>Mode of Action</b>	The active ingredient Chlorhexidine Gluconate is absorbed through the bacterial cell wall obstructing its permeability. It interferes with the cell's physiological activity leading to its destruction. It thus provides cumulative and residual protection against microorganisms. The preparation is suitable for MRSA eradication as it provides comprehensive effect against various MRSA strains.
<b>Areas of Application</b>	<p>Preoperative body washing: Hishield™ -5 is extensively used for the pre operative body washing or showering of patients prior to surgical procedures.</p> <ul style="list-style-type: none"> <li>• Post - operative care for patients in ENT and dentistry.</li> <li>• Treatment of wounds, burn wounds and surfaces, disinfection of the patient's skin.</li> <li>• Treatment of surgeons, nurses hands and operating field before diagnostic manipulation operation.</li> <li>• Cleaning visibly soiled hands Pre and Post patient contact areas as antiseptic hand wash.</li> <li>• Disinfection of work surfaces of devices (including thermometers) and equipment where heat treatment is not desirable.</li> <li>• For emergency disinfection of clean instruments.</li> <li>• Pre and post operative skin preparation.</li> <li>• Umbilical cord disinfection.</li> </ul>
<b>Method of Application</b>	<p><b>Surgical hand scrub:</b> Wet hand and forearm with water ,scrub for 3 minutes with about 5 ml of the product, paying close attention to nails and inter digital spaces. Rinse thoroughly. Wash for an additional 3 minutes with 5 ml product and rinse under running water, dry thoroughly.</p> <p><b>Health Care Personal hand wash:</b> Wet hand with water. Disperse about 5 ml product into cupped hand and wash in a vigorous manner for 15 seconds. Rinse and dry thoroughly.</p> <p><b>Patient Preoperative Skin preparation:</b> Apply the product liberally to surgical site and swab for at least 2 minutes. Dry with sterile towel. Repeat the process for additional 2 minutes and dry with a sterile towel.</p> <p><b>Skin wound and general skin cleansing:</b> Thoroughly rinse the area to be cleaned with water and apply minimum amount of product to cover skin or wound area and wash gently. Rinse again thoroughly.</p>

## Hishield™ PVP 10 % Solution (CO144/145/146)



**Hishield™ PVP 10 % is a topical Microbicide. Effective against bacteria including Spores, Fungi, Yeasts, Protozoa and Viruses. It is a film forming iodine complex. It is non stinging and non irritating to skin, wounds and mucous membrane. It is non staining to skin and natural fabrics. It's microbicidal activity is retained in presence of blood, pus and serum. Recommended for antiseptic preparation of skin and mucosa including vagina prior to surgery.**

**Packing : 500 ml ,1000 ml and 5000 ml.**

<b>Composition</b>	Each 100 ml contains 10.0 gm povidone iodine equivalent to 1.0 gm available iodine.
<b>Microbicidal Properties</b>	It's a broad spectrum topical microbicide effective against Bacteria, Fungus, Protozoa and Virus.
<b>Features</b>	<ul style="list-style-type: none"> <li>• A topical microbicide</li> <li>• Non stinging and non irritating to skin and mucous membrane.</li> <li>• Non staining to skin and natural fabric.</li> <li>• It's microbicidal activity is retained in presence of blood, pus and serum</li> <li>• It is fast acting broad spectrum antiseptic that kills gram positive and gram negative bacteria ( including anti biotic resistant organisms) as well as most Fungi, Yeasts, Viruses and Protozoa.</li> </ul>
<b>Mode of Action</b>	Povidone-iodine is a multivalent broad spectrum local antiseptic having bactericidal and fungicidal properties. The effect on vegetative cells of various bacteria and fungi is due to the liberation of free iodine from the complex. Some viruses, protozoa, yeasts, cysts and spores are also Susceptible. Hishield™ PVP 10 % Solution can be used for preparation of the skin prior to surgery as it helps to reduce bacteria that potentially can cause skin infection and also significantly reduces the number of microorganisms on the hand and fore arms prior to surgery or patient care. Also its antimicrobial activity is retained in presence of blood, pus and serum.
<b>Areas of Application</b>	<p>Antiseptic preparation of skin and mucosa including vagina prior to surgery, injections and aspirations. Post operative disinfection of surgical wounds to prevent sepsis e.g. Irrigation of surgical sites in orthopedic Surgery, Prophylactic painting of the umbilical stumps in neonates.</p> <ul style="list-style-type: none"> <li>• Antiseptic treatment of surgical wounds and traumatic injuries including lacerations, aberrations, first, second and third degree burns.</li> <li>• Topically to treat infection e.g. Eczemas, athlete's foot and other mycotic infections, oral thrush, vulvitis and topical infection associated with vagina.</li> <li>• For effective disinfection of water in bath and tanks to prevent cross- infection especially in hydrotherapy, patient bathing .</li> <li>• Irrigation of body cavities to prevent and treat infection, including: peritonitis, post operative</li> <li>• Disinfection of thoracic and peritoneal cavities.</li> </ul>
<b>Method of Application</b>	<p><b>Use undiluted.</b></p> <p>Put small portion of Hishield™ PVP 10% on a sterile swab and apply to the effected area. The brown colour of Hishield™ PVP indicates the area that has been treated. The treated areas may be bandaged taped or covered.</p>

## Sterifast™ Prep (C0254)



**Sterifast™ Prep i.e. patient preoperative skin preparation is a rapid-acting, persistent and broad-spectrum antiseptic for a wide range of procedures. The 2% CHG and 70% IPA formulation acts fast and keeps fighting bacteria for at least 48 hours.**

**Packing :** 500 ml, 1000 ml and 5000 ml.

<b>Composition</b>	Each ml Contains : Isopropyl Alcohol IP: 70% V/V, Chlorhexidine Gluconate IP :2% W/V Other ingredients: DM Water, Propylene Glycol, Glycerol, Emollients, Moisturizers and Skin Care Ingredients.
<b>Microbicidal Properties</b>	Bactericidal, Fungicidal, Virucidal Against Enveloped Virus (Incl. HBV, HIV, HCV, SARS Virus).
<b>Features</b>	<ul style="list-style-type: none"> <li>• Sterifast™ Prep provides rapid acting and persistent antiseptic activity against broad spectrum of microorganisms. It penetrates the first five layers of stratum corneum where 80% microorganisms reside.</li> <li>• Broad spectrum, immediate, cumulative and residual antibacterial activity up to 48 hours.</li> <li>• Effective even in the presence of blood and organic matter .</li> <li>• Destroys the bacterial cell membrane and precipitates the cell contents.</li> </ul>
<b>Mode of Action</b>	70% IPA-causes the protein of the cell of the microorganism to coagulate at a slow rate. This allows ethanol to penetrate the entire cell before the cell has a chance for its coagulation to block ethanol. The entire cell is then coagulated causing the cell to die. 70% IPA of the rub slows the drying time of IPA- N propanol creating a longer contact time and kills microbes in 30 seconds. The active ingredient Chlorhexidine Gluconate is absorbed through the bacterial cell wall obstructing its permeability. It interferes with the cell's physiological activity leading to its destruction. It thus provides cumulative and residual protection against microorganisms. Isopropyl alcohol is rapidly antimicrobial against bacteria, fungi, and viruses.
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• Routine Venipuncture .</li> <li>• Blood Culture collection .</li> <li>• Peripheral cannulation .</li> <li>• Simple biopsy.</li> <li>• Dialysis Fistula/grati site cleansing.</li> <li>• Peritoneal dialysis site cleansing.</li> <li>• Minor &amp; major surgical procedures.</li> <li>• Implantable device placement.</li> <li>• Prosthetic device placement &amp; removal.</li> <li>• Midline, peripheral intra vascular central catheter (PICC) .</li> </ul>
<b>Method of Application</b>	<p><b>For preparation of body parts for surgery:</b> Use undiluted on the site which is to be sterilized with a sterilized gauze.</p> <p><b>For Antiseptic application:</b> Apply on wounds, cuts and abrasions for antiseptics and complete healing.</p> <p><b>For Wipe Dispensing System</b></p> <p>For 100 wipe roll use 600 ml Sterifast™ Prep solution</p> <p>Use viscose - polyester soft wipe roll</p> <p>Procedure for impregnation is given in wipe dispensing section.(C0253)</p>

## Poviprep (C0272)



**Poviprep Provides both rapid bacterial kill and long lasting antimicrobial persistence. It forms protection film, which dries to form a persistent and durable layer of protection on the patient's skin. Poviprep solution gives effective antimicrobial kill in a single, painted coat – along with significantly greater drape adhesion.**

**Packing :** 100 ml ,500 ml and 1000 ml.

<b>Composition</b>	Active Ingredients: Ethyl Alcohol I.P: 78 % V/V, Povidone Iodine: 5 % W/V, Other Ingredients: D I Water, Propylene Glycol, Glycerine.
<b>Microbicidal Properties</b>	Bactericidal, Fungicidal, Virucidal against enveloped virus (incl. HBV, HIV, HCV, SARS Virus).
<b>Features</b>	<ul style="list-style-type: none"> <li>• Broad spectrum, immediate, cumulative and residual antibacterial activity up to 48 hours.</li> <li>• Effective even in the presence of blood and organic matter .</li> <li>• Destroys the bacterial cell membrane and precipitates the cell contents.</li> <li>• Poviprep has sustained and durable antimicrobial activity that lasts long after alcohol evaporation because alcohol dries on exposed skin within moments of application, these can be applied with a 1- Step preparation as opposed to a scrub-and-paint technique.</li> <li>• Poviprep has long durability in the surgical/procedural environment and enhances adhesion between surgical drapes and the prepared skin surface, theoretically limiting the spread of organisms onto the surgical field.</li> </ul>
<b>Mode of Action</b>	Ethanol destroys 99.99% of all microbes viz., gram-positive and gram-negative bacteria, bacilli, fungi and viruses, including HIV and HBV within 15 seconds. Povidone-iodine is a multivalent broad spectrum local antiseptic having bactericidal and fungicidal properties. The effect on vegetative cells of various bacteria and fungi is due to the liberation of free iodine from the complex. Some viruses, protozoa, yeasts, cysts and spores are also susceptible.
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• Routine Venipuncture .</li> <li>• Blood Culture collection .</li> <li>• Peripheral cannulation .</li> <li>• Simple biopsy.</li> <li>• Dialysis Fistula/grati site cleansing.</li> <li>• Peritoneal dialysis site cleansing.</li> <li>• Minor &amp; major surgical procedures.</li> <li>• Implantable device placement.</li> <li>• Prosthetic device placement &amp; removal.</li> <li>• Midline, peripheral intra vascular central catheter (PICC).</li> </ul>
<b>Method of Application</b>	<p><b>For preparation of body parts for surgery:</b> Use undiluted on the site which is to be sterilized with a sterilized gauze. Spread evenly a brown washable tint will be visible on the prepared site.</p> <p><b>For Antiseptic application:</b> Apply on wounds, cuts and abrasions for antisepsis and complete healing.</p>

## Hishield™ HC ( C0191/192)



**Hishield™ HC is a disinfectant antiseptic solution with broad spectrum of antiseptic effect. The preparation is an effective all purpose disinfectant suitable for disinfection of skin, hard surface, and medical devices and equipments.**

**Packing : 500 ml and 5000 ml.**

<b>Composition</b>	Each ml contains : Chlorhexidine Gluconate Solution IP 7.5% V/V, Cetrimide IP 15% W/V, Isopropyl Alcohol 7% V/V . Other Ingredients: DM water and Colours: Tartrazine.
<b>Microbicidal Properties</b>	Effective against gram positive and gram negative Bacteria, Facultative Anaerobes, Aerobes, Fungi, Yeast, Mold and Protozoa.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Suitable for disinfection of skin, hard surface and sterilization of medical equipment.</li> <li>• Disrupts the cellular functions of microorganisms, rendering them ineffective.</li> <li>• Effective against antibiotic resistant bacteria and MRSA stains.</li> <li>• Effective in reducing cross infection in hospitals.</li> <li>• Effective even in presence of organic matter.</li> </ul>
<b>Mode of Action</b>	<p>Chlorhexidine Gluconate is a biguanide antiseptic cum disinfectant. It is effective on both gram-positive and gram-negative bacteria. It has both bactericidal and bacteriostatic mechanisms of action, the mechanism of action being membrane disruption It is also useful against fungi and viruses.</p> <p>Cetrimide is a quaternary ammonium compound. It affects and disrupts the cellular functions of microorganisms, rendering them ineffective. It has the wide spectrum of anti-infectives against bacteria and fungi.</p> <p>The preparation is an effective all purpose disinfectant suitable for disinfection of skin, hard surface and sterilization of medical equipments. Superior microbicidal action against highly contagious microbes including antibiotic resistant bacteria. Effective against MRSA stains , effective in reducing cross infection in hospitals. Effective even in presence of organic matter.</p>
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• Disinfection of skin and living tissue.</li> <li>• Aseptic management of burns.</li> <li>• Preoperative skin disinfection.</li> <li>• Cleaning visibly soiled hands pre and post patient contact.</li> <li>• Dressing Minor Wounds, and burn washing.</li> <li>• Obstetrics &amp; Gynaecology.</li> <li>• Prevention of Bacterial and Mycotic infections for prevention of skin and umbilical cord infections.</li> <li>• Disinfection, swabbing in obstetrics, gynaecology and urology</li> <li>• Disinfection of Equipment and Instruments.</li> <li>• Bed pans, baby's incubator, bath tubs, hand basin etc.</li> <li>• Inhaler mouth pieces.</li> <li>• Cape ventilators.</li> <li>• Pre and prolonged storage of sterilized instruments and clinical thermometers.</li> <li>• General cleaning of surface, equipment and tools.</li> </ul>
<b>Method of Application</b>	<p><b>For treatment of burns &amp; wounds:</b> Dilute Hishield™ HC in the ratio of 1:100 (Hishield™ HC : water) gently swab the affected area.</p> <p><b>For cleaning soiled wounds:</b> Dilute Hishield™ HC in the ratio of 1:30 (Hishield™ HC:water) gently swab to remove the soil.</p> <p><b>For preoperative skin disinfection and umbilical cord disinfection:</b> Dilute 1 part Hishield™ HC in 30 parts of 70% Ethanol. Swab the affected area for 2 minutes. Allow to dry.</p>

## HiPolyzyme™ Detergent Cleaner (C0159/160)



**HiPolyzyme™ is a very efficient concentrated enzymatic cleaner for surgical instruments and endoscopes. It has a neutral pH and contains a combination of enzymes (protease, lipase, amylase) that degrade proteins, fats, and blood residues. It drastically removes organic residues and prevents corrosion and instruments discoloration. It removes even the toughest deposits. It is suitable for the cleaning in ultrasonic bath, in automated endoscope washer – disinfectors, in instrument washers, in immersion bath or by conventional hand washing.**

**Packing : 500 ml and 1000 ml.**

<b>Composition</b>	Protease, Lipase, Amylase, and Cellulose with Non-Ion Surfactant, pH regulators, Chelating Agents, Corrosion Inhibitors & Softeners.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Multi Enzymatic Detergent cleaner.</li> <li>• Uniquely formulated for the cleaning cycle in automatic endoscope re-processors.</li> <li>• Contains the key enzymes important for rapid, more complete penetration and effective removal of bio-burden.</li> <li>• Biodegradable.</li> <li>• Rinses easily.</li> <li>• Contains a rust inhibitor to help protect valuable medical devices and surgical instruments.</li> <li>• Effectively breaks down blood, mucous and faeces contained in the bio film with reduced mechanical action .</li> <li>• Effectively improves the surface wetting of hard to reach areas like endoscope channels, and cleans lipids, greases and fats.</li> </ul>
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• Fast Acting : Begins to act in just one minute allowing fast turn around of instruments.</li> <li>• Easy rinsing: Its low foaming properties and neutral pH prevent it from leaving residues so that instruments can be effectively disinfected .</li> <li>• Pleasant to use with lime fragrance that masks the odour of dirty instruments .</li> <li>• Easily removes organic stains like blood spots etc. from the cloth .</li> <li>• Before high level, middle level and low level disinfection of medical devices.</li> <li>• Automatic and manual cleaning of surgical and medical devices.</li> <li>• Cleaning of Surgical instruments, Endoscope, Ultrasound probes, Dental instruments.</li> <li>• Cleaning of bed sheets and bed pans.</li> <li>• Cleaning of surgical and nursing gowns.</li> </ul>
<b>Method of Application</b>	<p><b>For Cleaning medical instruments and devices before HLD:</b></p> <p>Dilute 16 ml HiPolyzyme™ in 1 litre of water. Soak the instrument for 1 to 5 minutes. Ensure all the parts are completely submerged in the solution. Wash with clean water.</p>



## HiClean & Cure (CO193/194/195)

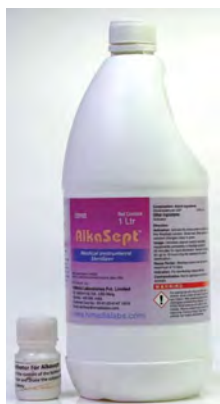


**Hi Clean & Cure is a highly effective cleaner to remove tarnish, loose rust and rusted stains. It also removes stubborn organic residue from the instruments. It is used as a liquid acid cleaning agent for surgical instruments made from stainless steel.**

**Packing :** 500 ml,1000 ml and 5000 ml.

<b>Composition</b>	Organic acids, Inorganic acid , Non ionic surfactant, Chelating Agents, Corrosion Inhibitors, De Ionized Water.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Excellent disinfectant cleaner .</li> <li>• Excellent cleaning power on mineral and organic soil.</li> <li>• Effectively remove stubborn calcification, grease, and urinary calculus and cosmetic residues.</li> <li>• Removes stains and hard water deposits.</li> <li>• Removes stubborn organic residues of the instruments.</li> <li>• As cleaner for entire sanitary area for rapid and reliable removal of primary minerals and organic soils.</li> </ul>
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• Suitable for all acid resistant material such as porcelain, Stainless Steel, Chromium, Aluminium, Colourfast synthetics, Rubber, Tiles, Glass and Enamels .</li> <li>• As anti-calcification agent in the kitchen.</li> <li>• Cleaning of surgical instruments with stubborn stains.</li> <li>• Cleaning of pipelines of food and dairy.</li> <li>• Cleaning of surgical instruments made of SS, hardened chrome steel and chrome Nickel steel.</li> </ul>
<b>Method of Application</b>	<ul style="list-style-type: none"> <li>• Cleaning in immersion bath :Instruments are immersed in a warm 1 to 10% Hi Clean &amp; Cure solution(10 to 100 ml / lt at 50°C for 1 hour).</li> <li>• For Instruments with carbide insert use only 1-3% Hi Clean &amp; Cure solution after contact time of 1 hour the instruments are removed and thoroughly rinsed with water and dried.</li> <li>• For internal cleaning of pipe line pass ( 50 ml in 1 litre water) diluted Hi Clean &amp; Cure through the pipe line &amp; Rinse thoroughly with clean water.</li> </ul>

## AlkaSept™ (C0152/102)



**AlkaSept™ is a high level sterilizer for reprocessing heat sensitive medical devices. AlkaSept™ is used to disinfect medical equipment that cannot be subjected to steam sterilization, specifically heat-sensitive, lensed devices typically requiring high-level disinfection between patient uses. It is used in a variety of locations within a facility, such as surgery, endoscopy and respiratory therapy.**

**Packing :** 1000 ml and 5000 ml.

<b>Composition</b>	Each ml contains : Glutaraldehyde IP : 2.45% W/V Other Ingredients : DM Water, Chelating Agents, pH Regulators and Corrosion Inhibitors.
<b>Microbicidal Properties</b>	Bactericidal, Fungicidal, Tuberculocidal, Sporocidal, Virucidal Against Enveloped Virus (Incl. HBV, HIV, HCV, SARS Virus), Virucidal (Parvo, Adeno, Papova, Polio, Vaccinia Virus and HAV). Also effective against antibiotic resistant organisms.
<b>Features</b>	<ul style="list-style-type: none"> <li>• High Level Disinfectant (HLD) for use in re-processing heat sensitive medical devices.</li> <li>• High degree of material compatibility for machine and endoscope.</li> <li>• Compatible with different water qualities.</li> <li>• Effective against bacterial spores.</li> <li>• Excellent material compatibility and can be used for the sterilization of heat-sensitive instruments (flexible endoscopes) in the manual treatment, circulation procedures as well as in the ultrasonic bath.</li> </ul>
<b>Mode of Action</b>	Glutaraldehyde is a broad spectrum disinfectant having bactericidal, tuberculocidal, virucidal (even against enveloped viruses) and fungicidal properties. It is found to be slowly effective against bacterial spores as well. The aqueous solution of glutaraldehyde shows its optimum activity at pH 7.5 to 8 and is chemically stable for 14 days. For thoroughly cleansed instruments, a complete immersion in the solution for 10 - 20 minutes is sufficient for rapid disinfection. However an exposure for up to 10 hours may be necessary for sterilization.
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• Sterilization of heat sensitive medical devices.</li> <li>• Sterilization of endoscope.</li> <li>• Sterilization of surgical equipments.</li> <li>• Sterilization of equipments used for respiratory therapy.</li> </ul>
<b>Method of Application</b>	<p><b>For activation :</b> Pour entire content of activator vial in the AlkaSept™ solution. Shake well until activated solution's colour changes to green and all the powder is dissolved completely.</p> <p><b>For Sterilization:</b> Immerse cleaned medical instruments/equipments completely in activated AlkaSept™ solution.</p> <p><b>Soak time:</b>            For High Level disinfection (HLD): 20 minutes at 20°C.            For sporicidal activity : 10 hours at 25°C.</p> <p>Wash the instruments thoroughly with sterile water before application. The activated solution can be used for 14 days.</p>

## AlkaSept™ OPA (C0161/162)



**AlkaSept™ OPA is high level sterilizer for use in re-processing heat sensitive medical devices. It has a broader material compatibility compared to glutaraldehyde. AlkaSept™ OPA solution provides rapid high level disinfection in 12 minutes at a room temperature for manual processing. It is particularly active against mycobacteria including glutaraldehyde resistant strains of M.chelonae. AlkaSept™ OPA solution is ready to use, requiring no activation and has minimum odor.**

**Packing : 1000 ml and 5000 ml.**

<b>Composition</b>	Each ml contains:Ortho Phthalaldehyde (OPA): 0.55% w/v Other Ingredients: DM Water, Buffering Agents,Chelating Agents and Corrosion Inhibitors.
<b>Microbicidal Properties</b>	Bactericidal,Fungicidal, Tuberculocidal,Sporicidal,Virucidal against enveloped virus (Incl.HBV,HIV,HCV,SARS Virus), Virucidal (parvo,adeno, papova, polio , vaccinia virus and HAV). Also effective against antibiotic resistant organisms, and glutaraldehyde resistant strains of M.chelonae.
<b>Features</b>	<ul style="list-style-type: none"> <li>• High Level Disinfectant (HLD) for use in re-processing heat sensitive medical devices.</li> <li>• High degree of material compatibility for machine and endoscope.</li> <li>• Compatible with different water qualities .</li> <li>• Effective against bacterial spores.</li> <li>• Excellent material compatibility and can be used for the sterilization of heat-sensitive instruments (flexible endoscopes) in the manual treatment, circulation procedures as well as in the ultrasonic bath .</li> <li>• Particularly active against mycobacteria including Glutaraldehyde resistant strains of M.chelonae.</li> </ul>
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• Sterilization of heat sensitive medical devices.</li> <li>• Sterilization of endoscope.</li> <li>• Sterilization of surgical equipments.</li> <li>• Sterilization of equipments used for respiratory therapy.</li> <li>• No activation is required for AlkaSept™ OPA solution.</li> </ul>
<b>Method of Application</b>	<p><b>High Level disinfection:</b> Manual Processing: immerse device completely filling all lumens and eliminating air pockets in AlkaSept™ OPA solution for a minimum of 12 minutes at 20°C or higher to destroy micro organisms.</p> <p><b>Automatic Re-processor:</b> Immerse device for minimum 5 minutes at 25°C Following removal from AlkaSept™ OPA solution, thoroughly rinse the medical device by immersing it completely in a large volume of sterile water for minimum of 1 minute. Repeat the procedure for additional two times.</p> <p><b>AlkaSept™ OPA Solution Usage:</b> After opening the solution remaining in the container can used up to 75 days.The OPA solution can be used for maximum 14 days.</p>

## AlkaSept™ Active (C0163/164)



**Alkasept™ Active is a high level surface and instruments disinfectant. It is compatible with wide range of material namely glass, ceramic, stainless steel, non ferrous metals, aluminium, plastics, silicone rubber, hard rubber, markolon, latex and porcelain.**

**Packing :** 500 ml, 1000 ml

<p><b>Composition</b></p>	<p>Each 100 gms Contains: 1, 6 Hydroxyl 2,5 Dioxahexane: 11.2 gms , Glutaraldehyde: :5.0 gms N, Alkyl Dimethyl Benzyl Ammonium Chloride: 5.0 gms , Alkyl Urea Derivative: 3.0 gms Other Ingredients: DM Water, Chelating Agents, pH Regulators and Corrosion Inhibitors.</p>
<p><b>Microbicidal Properties</b></p>	<p>Bactericidal, Fungicidal, Tuberculocidal, Sporicidal, Virucidal against enveloped virus (incl. HBV, HIV, HCV, SARS Virus), Virucidal (parvo, adeno, papova, polio , vaccinia virus and HAV). Also effective against antibiotic resistant organisms.</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>• High level disinfectant for medical devices.</li> <li>• Unique blend of three potent biocide.</li> <li>• Fast action.</li> <li>• Long lasting residual effect.</li> <li>• Penetrates microbial cell wall swiftly and effectively binds the cellular protein ensures total lysis .</li> <li>• Penetrates even the difficult to reach area.</li> </ul>
<p><b>Mode of Action</b></p>	<p>Glutaraldehyde is a broad spectrum disinfectant having bactericidal, tuberculocidal, virucidal (even against enveloped viruses) and fungicidal properties. It is found to be slowly effective against bacterial spore .Alkyl Dimethyl Benzyl Ammonium Chloride inhibit the growth of pathogenic microorganisms.</p>
<p><b>Areas of Application</b></p>	<ul style="list-style-type: none"> <li>• High level disinfectant for hard surface and instruments.</li> <li>• Suitable for manual and semiautomatic circulation procedure</li> <li>• Suitable for fully automatic cold disinfection procedure.</li> <li>• Suitable for the cleaning surface disinfection of washable surfaces using the wet wipe procedure.</li> <li>• In all critical areas of Pharma, Hospitals and Nursing homes.</li> <li>• Areas in the pharmaceutical industry that are relevant to hygiene.</li> <li>• Laboratories and cosmetics industry.</li> </ul>
<p><b>Method of Application</b></p>	<p><b>Disinfection of semi critical and non critical instruments:</b> 10 ml in 1 litre of clean water. For 30 minutes and rinse thoroughly with sterile water and wipe dry.</p> <p><b>Disinfection of Critical instruments :</b> 25 ml in 1 litre of clean water. Dip for 30 minutes and rinse with sterile water and wipe with sterile cloth.</p> <p><b>Disinfection of critical area:</b> 10 ml in 1 litre water. Let the surface remain wet for 10 minutes. Let it dry on it's own.</p> <p><b>Decontamination of surgical refuse:</b> 10 ml in 1 litre of water. Dip the refuse for 40 minutes before disposing.</p> <p><b>For wipe dispensing system</b>          For 100 wipe roll use 12 ml AlkaSept™ Active in 588 ml purified water.          For 50 wipe roll use 6 ml AlkaSept™ Active in 294 ml purified water.          Use Lint free melt blown wipe roll.          Procedure for impregnation is given in wipe dispensing section.(C0253)</p>

## AlkaSept™ Plus (C0103/104/105)



**AlkaSept™ Plus is a formaldehyde free disinfectant cleaner for high risk areas with low use concentration. It is produced by synergic combination of Glutaraldehyde with 5th generation quaternary ammonium compounds making it a very potent biocide and excellent cleaner. It is very cost effective, has good material compatibility and excellent cleaning property with no residue.**

**Packing :** 500 ml, 1000 ml and 5000 ml.

<b>Composition</b>	Active Ingredients: Glutaraldehyde IP- 10% W/V, N, Alkyl Dimethyl Benzyl Ammonium Chloride- 6% W/V, Didecyl Dimethyl Ammonium Chloride- 6 % W/V. Other Ingredients: DM Water, Chelating Agents, pH Regulators and Corrosion Inhibitors.
<b>Microbicidal Properties</b>	Bactericidal, Fungicidal, Tuberculocidal, Sporicidal, Virucidal against Enveloped Virus (Incl. HBV, HIV, HCV, SARS Virus), Virucidal (Parvo, Adeno, Papova, Polio, Vaccinia Virus and HAV).
<b>Features</b>	<ul style="list-style-type: none"> <li>• High level surface disinfectant for high risk areas.</li> <li>• Unique blend of Glutaraldehyde and 5th generation quaternary ammonium compounds.</li> <li>• Fast action.</li> <li>• Long lasting residual effect.</li> <li>• Penetrates microbial cell wall swiftly and effectively. Binds the cellular protein ensuring total lysis.</li> <li>• Penetrates even the difficult to reach area.</li> <li>• Suitable for instrument disinfection.</li> <li>• Glutraquat active use-solutions is compatible with : Metals: Stainless Steel (V2A), aluminum, Copper, brass. Plastics: Polyethylene, Polypropylene, PVC, Silicon, Rubber, Latex, Makrolon, Acrylic glass, Teflon.</li> </ul>
<b>Mode of Action</b>	Glutaraldehyde is a broad spectrum disinfectant having bactericidal, tuberculocidal, virucidal (even against enveloped viruses) and fungicidal properties. It is found to be slowly effective against bacterial spore as well. Benzyl- C12-18-alkyldimethylammonium chloride & Didecyl dimethyl ammonium chloride inhibit the growth of pathogenic microorganisms.
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• High level disinfectant for hard surface and instruments.</li> <li>• Suitable for manual and semiautomatic circulation procedure</li> <li>• Suitable for fully automatic cold disinfection procedure.</li> <li>• Suitable for the cleaning surface disinfection of washable surfaces using the wet-wipe procedure.</li> <li>• In all critical areas of Pharma, Hospitals and nursing homes,</li> <li>• Areas in the pharmaceutical industry that are relevant to hygiene.</li> <li>• Laboratories and cosmetics industry.</li> </ul>
<b>Method of Application</b>	<p><b>Disinfection of precleaned surface, critical and non critical instruments:</b> 10 ml in 1 litre of water.</p> <p><b>Disinfection of critical instruments:</b> 20 ml in 1 litre of water. Rinse with sterile water before application.</p> <p><b>Disinfection of critical areas:</b> 15 ml in 1 litre of water. Let the surface remain wet for 10 minutes.</p> <p><b>Disinfection of surgical refuge:</b> 15 ml in 1 litre of water. Dip the refuge in the solution for 40 minutes before disposal.</p> <p><b>For Wipe Dispensing System</b></p> <p>For 100 wipe roll use 18 ml AlkaSept™ Plus in 582 ml purified water.</p> <p>For 50 wipe roll use 9 ml AlkaSept™ Plus in 291 ml purified water.</p> <p>Use Lint free meltblown wipe roll.</p> <p>Procedure for impregnation is given in wipe dispensing section.(C0253)</p>

## HiGlutQuat Plus (C0246)



**HiGlutQuat Plus is a high level disinfectant for heat sensitive and heat resistant instruments. It is compatible with wide range of material namely glass, ceramic, stainless steel, non ferrous metals, aluminium, plastics, silicone rubber, hard rubber, markolon, latex and porcelain.**

**Packing : 500 ml,1000 ml and 5000 ml.**

<b>Composition</b>	Each ml contains : Glutaraldehyde IP- 5% W/V, Ethylene Dioxy Dimethanol- 14.1% W/V, Didecyl Dimethyl Ammonium Chloride- 8% W/V. Other ingredients: DM water, Chelating Agents, pH regulators and Corrosion Inhibitors.
<b>Microbicidal Properties</b>	Bactericidal, Fungicidal, Tuberculocidal, Sporocidal, Virucidal against enveloped virus (incl. HBV, HIV, HCV, SARS Virus), Virucidal (parvo, adeno, papova, polio, vaccinia virus and HAV). Also effective against antibiotic resistant organisms.
<b>Features</b>	<ul style="list-style-type: none"> <li>• High level disinfectant for medical devices.</li> <li>• Unique blend of three potent biocide.</li> <li>• Fast action.</li> <li>• Long lasting residual effect.</li> <li>• Penetrates microbial cell wall swiftly and effectively binds the cellular protein ensures total lysis.</li> <li>• Penetrates even the difficult to reach area.</li> </ul>
<b>Mode of Action</b>	Glutaraldehyde is a broad spectrum disinfectant having bactericidal, tuberculocidal, virucidal (even against enveloped viruses) and fungicidal properties. It is found to be slowly effective against bacterial spore as well. Didecyl dimethyl ammonium chloride has broad spectrum antimicrobial properties against bacteria, fungi and enveloped viruses. It inactivates the energy producing enzymes, causes denaturation of essential cell proteins and disruption of the cell membrane. The mechanism of microbicidal action is due to disruption of intermolecular reactions. Didecyl dimethyl ammonium chloride is cationically charged and induces antibacterial action through attraction to the negatively charged bacterial membrane.
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• High level disinfectant for hard surface and instruments.</li> <li>• Suitable for manual and semiautomatic circulation procedure.</li> <li>• Suitable for fully automatic cold disinfection procedure.</li> <li>• Suitable for the cleaning surface disinfection of washable surfaces using the wet-wipe procedure.</li> <li>• In all Critical areas of Pharma, Hospitals and Nursing homes,</li> <li>• Areas in the pharmaceutical industry that are relevant to hygiene.</li> <li>• Laboratories and cosmetics industry.</li> </ul>
<b>Method of Application</b>	<p><b>Disinfection of semi critical and non critical instruments:</b> 10 ml in 1 litre of clean water. For 30 minutes and rinse thoroughly with sterile water and wipe dry.</p> <p><b>Disinfection of Critical instruments :</b> 25 ml in 1 litre of clean water. Dip for 30 minutes and rinse with sterile water and wipe with sterile cloth.</p> <p><b>Disinfection of critical area:</b> 10 ml in 1 litre of water. Let the surface remain wet for 10 minutes. Let it dry on it's own.</p> <p><b>Decontamination of surgical refuse:</b> 10 ml in 1 litre of water. Dip the refuse for 40 minutes before disposing.</p> <p><b>For Wipe Dispensing System</b>            For 100 wipe roll use 18 ml HiGlutquat Plus in 582 ml purified water.            For 50 wipe roll use 9 ml HiGlutquat Plus in 291 ml purified water.            Use Lint free meltblown wipe roll.            Procedure for impregnation is given in wipe dispensing section.(C0253)</p>

## Combisept™ Plus (C0268)



**Combisept™ Plus is a high level surface disinfectant with nano technology that carries the active ingredients through the cell wall for rapid complete cell death of Bacteria, Virus, Fungi, Spores and Protozoa. Combisept™ Plus has broad spectrum antimicrobial activity. It is safe to use and economical.**

**Packing :** 500 ml, 1000 ml and 5000 ml

<b>Composition</b>	Each ml contains : Benzalkonium Chloride (Eq. to Benzalkonium Chloride Solution IP) - 5 % W/V. With Polyhexamethylene Biguanide Hydrochloride 12 % W/V, Formaldehyde 15 % W/V.
<b>Microbicidal Properties</b>	Bactericidal, Fungicidal, Tuberculocidal, Sporicidal, Virucidal against enveloped virus (incl. HBV, HIV, HCV, SARS Virus).
<b>Features</b>	<ul style="list-style-type: none"> <li>• High level disinfectant .</li> <li>• Unique blend of three potent biocide.</li> <li>• Fast action.</li> <li>• Long lasting residual effect.</li> <li>• Penetrates microbial cell wall swiftly and effectively binds the cellular protein ensures total lysis .</li> <li>• Penetrates even the difficult to reach area.</li> <li>• Simultaneously cleans and disinfects.</li> <li>• Also suitable for disinfecting carpets.</li> </ul>
<b>Mode of Action</b>	<p>Quaternary Ammonium Compound : A new generation of QAC with an increased germicidal activity. Active in very hostile conditions ( presence of organic matter and hard water). Active on coated virus, naked viruses, on gram negative and gram positive bacteria, bacterial spores and fungi.)</p> <p>PHMB has a strong inhibitory effect on the growth, initial attachment and biofilm formation of microbes. It also disrupt the preformed biofilms of the microbes.</p> <p>Formaldehyde inactivates microorganisms by alkylating the amino and sulfhydryl groups of proteins and ring nitrogen atoms of purine bases.</p>
<b>Areas of Application</b>	<p><b>On floors:</b> Damp mop, then apply solution using disinfectant applicator, wet mop or machine clean for best results. Floor should remain wet for at least 5 minutes.</p> <p><b>On surfaces and objects:</b> Wipe with cloth soaked in solution, wipe again with wring out cloth and let dry. (Do not wipe dry, do not rinse.) Spray uniform film of disinfectant on the surfaces that are difficult to reach.</p>
<b>Method of Application</b>	Prepare 1% solution (10 ml in 1 ltr water)



## HiSter Plus ( C0198/199)



**Hister Plus is an aldehyde free high level instrument and surface disinfectant with nano technology that carries the active ingredients through the cell wall for rapid complete cell death of Bacteria, Virus, Fungi, Spores and Protozoa. Hister plus has broad spectrum antimicrobial activity. It is safe to use and economical.**

**Packing : 1000 ml and 5000 ml.**

<b>Composition</b>	Each ml contains : Didecyl Dimethyl Ammonium Chloride: 13.0%W/V, N,Alkyl Dimethyl Ammonium Chloride: 13.6% W/V ,Polyhexa Methylene Bigunide Hydrochloride: 5.0% W/V Other Ingredients: DM Water, Chelating Agents, pH Regulators and Corrosion Inhibitors.
<b>Microbicidal Properties</b>	Bactericidal,Fungicidal, Tuberculocidal,Sporicidal,Virucidal against enveloped virus (incl. HBV, HIV, HCV, SARS Virus)
<b>Features</b>	<ul style="list-style-type: none"> <li>• Aldehyde free.</li> <li>• Combines powerful disinfectant properties of 5th generation quaternary compound with that of bigunide.</li> <li>• Penetrates microbial cell wall swiftly and effectively binds the cellular protein ensures total lysis.Long lasting residual effect.Triple killing power.</li> <li>• Prevents pathogenic mutation and resistance.</li> <li>• Efficient broad spectrum activity in high risk conditions .</li> </ul>
<b>Mode of Action</b>	Hister Plus is a high level surface disinfectant with Nano-technology that carries the active ingredients through the cell walls for rapid, complete cell death of all known bacteria, viruses, fungi, spores and protozoa. Hister Plus is highly surface active and therefore readily absorbed. Because of the large specific surface of the microorganisms, the first stage of germicidal activity begins with the adsorption of the disinfectant by the microbial cell. Such adsorption increases the permeability of the cell membrane, leading to the ultimate rupture and the decrease of lysine and glutamic acid. The inclusion of surfactants appears to stimulate the contraction of the cytoplasm followed by complete stripping of the cell wall. A second mode of action is that cell death results from inactivation of energy producing enzymes such as those concerned with glucose, succinate and pyruvate oxidase systems. HiSter Plus is made up of not one but three main active ingredients which deliver triple killing power - fungal, viral and bacterial, whilst also preventing pathogenic mutation and resistance. It is 70% faster than conventional high level disinfectants. Searches out inaccessible areas conventional products can not reach.
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• High level disinfectant for hard surface and instruments.</li> <li>• Suitable for manual and semiautomatic circulation procedure</li> <li>• Suitable for fully automatic cold disinfection procedure.</li> <li>• Suitable for the cleaning surface disinfection of washable surfaces using the wet wipe procedure.</li> <li>• In all Critical areas of Pharma, Hospitals and Nursing homes,</li> <li>• Areas in the pharmaceutical industry that are relevant to hygiene.</li> <li>• Laboratories and cosmetics industry.</li> </ul>
<b>Method of Application</b>	<p><b>Disinfection of pre cleaned surface, non critical instruments:</b> 4 ml in 1 litre of water.</p> <p><b>Disinfection of critical areas :</b> 10 ml in 1 litre of water. Let the surface remain wet for 10 minutes.</p> <p><b>For Fogging</b> 10 ml in 1 litre of water.</p> <p><b>For Wipe Dispensing System</b> For 100 wipe roll use 15 ml HiSter Plus in 585ml purified water. For 50 wipe roll use 7.5 ml HiSter Plus in 292.5 ml purified water. Use lint free meltblown wipe roll. Procedure for impregnation is given in wipe dispensing section.(CO253)</p>

## HiQuat Citrus (C0200/201/202)



HiQuat Citrus is aldehyde free high level surface disinfectant. HiQuat Citrus combines the disinfectant properties of 5th generation quaternary compound with the solvency of citrus oil to make a highly efficacious disinfectant cleaner. The Synergic blend of quats and citrus oil provides an improved product performance and natural citrus fragrance.

**Packing :** 500 ml,1000 ml and 5000 ml.

<b>Composition</b>	Active Ingredients: Di decyl Dimethyl Benzyl Ammonium Chloride: 9.2%W/V, N Alkyl Dimethyl Benzyl Ammonium Chloride: 13.8%W/V, Citrus Oil: 3% W/V Other Ingredients: DM Water, Chelating Agents, pH Regulators and Corrosion Inhibitors.
<b>Microbicidal Properties</b>	Bactericidal, Fungicidal, Tuberculocidal, Virucidal against enveloped virus (incl. HBV, HIV, HCV, SARS Virus.)
<b>Features</b>	<ul style="list-style-type: none"> <li>• Disinfectant cleaner with low use concentration .</li> <li>• Aldehyde free.</li> <li>• Citrus fragrance.</li> <li>• Optimized residual characteristics.</li> <li>• Combines powerful disinfectant properties of 5th generation quats with the solvency and natural fragrance of Citrus oil to give a perfect disinfectant cleaner.</li> <li>• Effectively removes soils from surfaces, even in hard water up to 250 ppm hardness.</li> <li>• Suitable for all types of surfaces.</li> </ul>
<b>Mode of Action</b>	5th generation quaternary compound has broad spectrum antimicrobial properties against bacteria, fungi and enveloped viruses. It inactivates the energy producing enzymes , causes denaturation of essential cell proteins and disruption of the cell membrane. The mechanism of microbicidal action is due to disruption of intermolecular reactions. 5th generation quats are cationically charged and induces antibacterial action through attraction to the negatively charged bacterial membrane.
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• Suitable for the cleaning and surface disinfection of washable surfaces in high risk areas using the wet wipe procedure.</li> <li>• Suitable for instrument disinfection.</li> <li>• Can be used as a fogging agent.</li> </ul>
<b>Method of Application</b>	<p><b>Disinfection of pre cleaned surface, critical and non critical instruments</b> 4 ml in 1 litre of water.</p> <p><b>Disinfection of critical areas</b> 10 ml in 1 litre of water. Let the surface remain wet for 10 minutes.</p> <p><b>For Fogging</b> 10 ml in 1 litre of water.</p> <p><b>For wipe dispensing system</b> For 100 wipe roll use 20 ml HiQuat Citrus in 580 ml purified water. For 50 wipe roll use 10 ml HiQuat Citrus in 290 ml purified water. Use Lint free meltblown wipe roll. Procedure for impregnation is given in wipe dispensing section.(C0253)</p>

## HiKleen (C0196/197)



**HiKleen is a cold sterilant with excellent antimicrobial property. It has excellent disinfection property even at very low concentration. It is an environmentally safe disinfectant because it decomposes into harmless products and water after use. It is always used in dilute form.**

**Packing : 1000 ml and 5000 ml.**

<b>Composition</b>	Active ingredients : Peracetic Acid: 5% W/W, Hydrogen Peroxide: 20% W/W, Acetic Acid: 11% W/W. Other ingredients; DM water.
<b>Microbicidal Properties</b>	Bactericidal, Fungicidal, Tuberculocidal, Sporocidal, Virucidal against enveloped virus (Incl. HBV, HIV, HCV, SARS Virus), Virucidal (parvo, adeno, papova, polio, vaccinia virus and HAV). Also effective against antibiotic resistant organisms.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Rapidly kills a broad spectrum of microorganisms, even at low temperature.</li> <li>• Removes mineral deposits and organic matters.</li> <li>• Low foaming. Effective up to 8 pH. Completely biodegradable.</li> <li>• Easily rinsed by water after use.</li> <li>• Classified under high level sterilant for heat sensitive equipment.</li> <li>• Suitable for reprocessing of dialysis in hemodialysis system.</li> <li>• Sterilant for plastic implants, dentures, tubes etc.</li> <li>• Less corrosive to stainless steel at use concentration. Slightly corrosive.</li> </ul>
<b>Mode of Action</b>	The combined effect of Peracetic Acid and Hydrogen peroxide in multiple oxidation power to kill all germs viz. Bacteria, fungi, spores, virus, algae and amoebae. The formation of highly reactive free oxygen ions and hydroxyl radicals help to achieve superior disinfection. Peracetic acid solution has a broad spectrum of activity, including bacteria and their spores, moulds, yeasts, algae and viruses. It is a powerful oxidizing agent. i.e., it denatures proteins, disrupts cell wall permeability, and oxidizes sulphhydryl and sulfur bonds in proteins, enzymes, and other metabolites. The great advantage of this product is that its final decomposition products, oxygen and water are innocuous.
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• Suitable for areas that require a short contact time along with broad anti microbial action.</li> <li>• Suitable for manual and semi automatic circulation procedure.</li> <li>• Sterilization of heat sensitive medical devices.</li> <li>• Sterilization of endoscope.</li> <li>• Sterilization of surgical equipments.</li> <li>• Sterilization of equipments used for respiratory therapy.</li> <li>• Manual dialyser reprocess system.</li> <li>• For cleaning and disinfecting dialysers.</li> <li>• Cleaning and disinfecting automated dialyser reprocessing system.</li> <li>• Dialyser cap disinfection.</li> <li>• Disinfection of water circuit of dialyser equipment and removal of tartar.</li> <li>• Surface disinfection.</li> <li>• Batch sanitization of piping systems associated with RO membrane.</li> </ul>
<b>Method of Application</b>	<p><b>For sterilization :</b> Mix 1 part HiKleen in 28.5 parts of DM water. Dip instrument for 5 minutes. Remove and rinse thoroughly with sterile water</p> <p><b>For Disinfection of Dialyzer:</b> Mix 1 part HiKleen in 28.5 parts of DM water and circulate through Dialyzer.</p> <p><b>Dialyzer Cap Disinfection:</b> Mix 1 part HiKleen in 99 parts pur water. Dip for 5 minutes. Rinse thoroughly.</p> <p><b>Surface Disinfection:</b> Use 2.5 ml of HiKleen in 1 litre water. Let the surface remain wet for at least 10 minute.</p>

## HiQuat D 521 ( C0255)



HiQuat D521 is a synergic combination of 1st generation quaternary ammonium and 4th generation quaternary ammonium compound to create a lethal 5th generation quaternary ammonium compound microbicide. It is highly potent Mid level surface disinfectant. It is an aldehyde and phosphate free, pH neutral formulation designed to provide effective cleaning, deodorizing and disinfection in areas where housekeeping is of prime importance in controlling the hazard of cross contamination on treated surfaces and controlling foul odors.

**Packing :** 500 ml ,1000 ml and 5000 ml

<b>Composition</b>	Each ml Contains : Alkyl Dimethyl Benzyl Ammonium Chloride solution IP: 8.19% W/V , Didecyl dimethyl Ammonium Chloride : 8.7% W/V With DM water, chelating agents, pH regulators and corrosion inhibitors.
<b>Microbicidal Properties</b>	Bactericidal,Fungicidal, Facultative Anaerobes, Aerobes, Fungi, Yeast, Mold and Protozoa Virucidal Against Enveloped Virus (Incl.HBV,HIV,HCV,SARS Virus )
<b>Features</b>	<ul style="list-style-type: none"> <li>• Reduces the cross contamination on treated surface.</li> <li>• Penetrates microbial cell wall swiftly and effectively binds the cellular protein ensures total lysis .</li> <li>• Prevents pathogenic mutation and resistance.</li> <li>• Long lasting residual effect.</li> <li>• Efficient broad spectrum activity in high risk conditions .</li> <li>• It effectively removes dirt, grime, blood, urine, faecal matter and other common soils.</li> </ul>
<b>Mode of action</b>	5th generation quaternary compound has broad spectrum antimicrobial properties against bacteria, fungi and enveloped viruses. It inactivates the energy producing enzymes , causes denaturation of essential cell proteins and disruption of the cell membrane. The mechanism of microbicidal action is due to disruption of intermolecular reactions. 5th generation quats are cationically charged and induces antibacterial action through attraction to the negatively charged bacterial membrane.
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• Suitable for the cleaning and surface disinfection of washable surfaces in high risk areas using the wet wipe procedure.</li> <li>• Suitable for disinfection and cleaning of instrument .</li> <li>• Can be used as a fogging agent.</li> </ul>
<b>Method of Application</b>	<p><b>Surface Cleaning</b></p> <p><b>Non Critical Area :</b> 2 ml HiQuat D521 in 1000 ml of water for mopping / wiping furnitures , walls, equipments, OT table, O.T. laboratories.</p> <p><b>Semi Critical area :</b> 4 ml HiQuat D521 in 1000 ml of water for mopping wards, corridors, waiting halls,OPD, Reception area etc.</p>
<b>Material compatibility</b>	HiQuat D521 use solution compatible to <b>Metals :</b> Stainless steel, Copper, Brass, Aluminium <b>Plastics :</b> Polyamide,Polyethylene,Polypropylene,Polystyrene,Polyurethane,PVC,Acryl butadiene, Silicon, Rubber, Latex, Makrolon, Acrylic,Glass,Teflon.

## Bactrex™ Plus ( C0106/107/108)



**Bactrex™ Plus is a 5th generation quaternary ammonium based mid level surface disinfectant. It is effective against a broad spectrum of microbes and eliminates odor causing bacteria. It is aldehyde free, highly active nontoxic and noncorrosive surface disinfectant. It effectively removes dirt, grime, blood, urine, faecal matter and other common soils from the surface.**

**Packing : 500 ml, 1000 ml and 5000 ml**

<b>Composition</b>	Each ml contains : N, alkyl dimethyl benzyl ammonium chloride solution I.P.: 20% W/V, Didecyl dimethyl benzyl ammonium chloride:5% W/V. Other Ingredients: DM Water, Chelating Agents, pH Regulators and Corrosion Inhibitors.
<b>Microbicidal Properties</b>	Bactericidal, Fungicidal, Facultative Anaerobes, Aerobes, Fungi, Yeast, Mold and Protozoa, Virucidal Against Enveloped Virus ( Incl., HBV, HIV, HCV, SARS Virus. )
<b>Features</b>	<ul style="list-style-type: none"> <li>• Aldehyde free.</li> <li>• Reduces the cross contamination on treated surface.</li> <li>• Active even in hard water.</li> <li>• Highly active 5th generation quaternary compound disinfectant.</li> <li>• Penetrates microbial cell wall swiftly and effectively binds the cellular protein ensures total lysis.</li> <li>• Long lasting residual effect.</li> <li>• Prevents pathogenic mutation and resistance.</li> <li>• Efficient broad spectrum activity in high risk conditions.</li> </ul>
<b>Mode of action</b>	QACs are membrane-active agents interacting with the cytoplasmic membrane of bacteria and the plasma membrane of yeast. Their hydrophobic activity also makes them effective against lipid-containing viruses. QACs also interact with intracellular targets and bind to DNA .They are also effective against non-lipid-containing viruses.
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• Suitable for the cleaning and surface disinfection of washable surfaces in high risk areas using the wet wipe procedure.</li> <li>• Suitable for disinfection and cleaning of instrument .</li> <li>• Can be used as a fogging agent.</li> </ul>
<b>Method of Application</b>	<p><b>Disinfection ,cleaning and deodorising pre-cleaned surface, non critical areas:</b> 10 ml in 1 litre of water.</p> <p><b>Disinfection, cleaning and deodorising critical areas :</b> 20 ml in 1 litre water.</p> <p><b>Disinfection, cleaning and deodorising surgical refuge :</b> 15 ml in 1 litre water . Dip the Refuge in the solution for 40 minutes before disposal.</p> <p><b>For wipe dispensing system</b></p> <p>For 100 wipe roll use 15 ml Bactrex™ Plus in 585 ml purified water. For 50 wipe roll use 7.5 ml Bactrex™ Plus in 292.5 ml purified water. Use Lint free meltblown wipe roll. Procedure for impregnation is given in wipe dispensing section.(C0253)</p>
<b>Material compatibility</b>	Bactrex™ Plus has excellent material compatibility with heat resistant and heat-sensitive instruments; it is suitable for all common manual and semiautomatic circulation procedures as well as in ultrasonic baths. The material compatibility of the disinfectant extends to a wide range of materials like metals, various types of plastics, rubber, acrylic glass, metals etc. making it suitable for damage free wet-wipe disinfection.

## Germisol (C0084/ 086)



**Germisol is quaternary ammonium based surface disinfectant for application in non critical areas. It combines the disinfectant property of quaternary ammonium compound with that of non ionic surfactant to give a perfect disinfectant cleaner.**

**Packing : 500 ml and 5000 ml**

<p><b>Composition</b></p>	<p>Each ml contains : Benzalkonium Chloride IP 5 % w/v Other Ingredients: DM water, Chelating Agents, pH regulators and corrosion inhibitors and indicator.</p>
<p><b>Microbicidal Properties</b></p>	<p>Bactericidal, Fungicidal, Facultative Anaerobes, Aerobes, Fungi, Yeast, Mold and Protozoa Virucidal against Enveloped Virus (Incl., HBV, HIV, HCV, SARS Virus).</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>• Aldehyde free.</li> <li>• Low use concentration.</li> <li>• Sparkling golden colour.</li> <li>• Fragrant .</li> <li>• Optimized residue characteristics .</li> <li>• Gives distinct blue shade when mixed in water .</li> <li>• Contains in-built cleanser for perfect cleaning .</li> <li>• Economical.</li> <li>• Universal application.</li> </ul>
<p><b>Mode Of Action</b></p>	<p>The powerful germicidal, antibacterial and fungicidal action is due to Benzalkonium chloride. Benzalkonium chloride destroys metabolic activities of microorganisms and also inactivates cell proteins by coagulating them.</p>
<p><b>Areas of Application</b></p>	<ul style="list-style-type: none"> <li>• Suitable for the cleaning and surface disinfection of washable surfaces in areas using the wet wipe procedure.</li> <li>• Areas in the pharmaceutical industry that are relevant to hygiene .</li> </ul>
<p><b>Method of Application</b></p>	<p><b>Disinfection of pre cleaned surface :</b> 5 ml in 1 litre of water.</p>

## Germitol (C0008/009)



**Germitol is quaternary ammonium based surface disinfectant for application in non critical areas. It combines the disinfectant property of quaternary ammonium compound with that of non ionic surfactant to give a perfect disinfectant cleaner.**

**Packing : 500 ml and 5000 ml**

<b>Composition</b>	Each ml contains: Benzalkonium Chloride Solution IP 20 % w/v Other Ingredients: DM water, Chelating Agents, pH regulators, Corrosion Inhibitors and indicator.
<b>Microbicidal Properties</b>	Bactericidal, Fungicidal, Facultative Anaerobes, Aerobes, Fungi, Yeast, Mold and Protozoa Virucidal against Enveloped Virus (Incl., HBV, HIV, HCV, SARS Virus).
<b>Features</b>	<ul style="list-style-type: none"> <li>• Aldehyde free.</li> <li>• Low use concentration.</li> <li>• Sparkling golden colour.</li> <li>• Fragrant .</li> <li>• Optimized residue characteristics .</li> <li>• Gives distinct blue shade when mixed in water .</li> <li>• Contains in-built cleanser for perfect cleaning .</li> <li>• Economical.</li> <li>• Universal application.</li> </ul>
<b>Mode Of Action</b>	The powerful germicidal, antibacterial and fungicidal action is due to benzalkonium chloride. It destroys metabolic activities of microorganisms and also inactivates cell proteins by coagulating them.
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• Suitable for the cleaning and surface disinfection of washable surfaces in areas using the wet wipe procedure.</li> <li>• Areas in the pharmaceutical industry that are relevant to hygiene .</li> </ul>
<b>Method of Application</b>	<b>Disinfection of pre cleaned surface :</b> 5 ml in 1 litre of water.



## Germikleen 2.5 % ( C0249)



**Germikleen 2.5 % is quaternary ammonium based surface disinfectant for application in non critical areas. It combines the disinfectant property of quaternary ammonium compound with that of non ionic surfactant to give a perfect disinfectant cleaner.**

**Packing : 500 ml ,1000 ml and 5000 ml**

<b>Composition</b>	Each ml contains : Benzalkonium Chloride (As Benzalkonium Chloride Solution IP ) 2.5 % w/v ,other Ingredients: Citrus Fragrance , Chelating Agents, pH regulators and Corrosion Inhibitors .
<b>Microbicidal Properties</b>	Effective on common pathogens.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Aldehyde free.</li> <li>• Low use concentration.</li> <li>• Sparkling golden colour.</li> <li>• Fragrant .</li> <li>• Optimized residue characteristics .</li> <li>• Gives distinct blue shade when mixed in water .</li> <li>• Contains in-built cleanser for perfect cleaning .</li> <li>• Economical.</li> <li>• Universal application.</li> </ul>
<b>Mode of Action</b>	The active ingredient of Germikleen 2.5 % i.e. Benzalkonium Chloride destroys metabolic activities of microorganisms and also inactivates cell proteins by coagulating them.
<b>Areas of Application</b>	Suitable for the cleaning and disinfection of the flooring of common areas.
<b>Method of Application</b>	<b>Disinfection of pre cleaned surface :</b> 15 ml in 1 Litre of water

## Germikleen 5 % (C0250)



**Germikleen 5 % is quaternary ammonium based surface disinfectant for application in non critical areas. It combines the disinfectant property of quaternary ammonium compound with that of non ionic surfactant to give a perfect disinfectant cleaner.**

**Packing :** 500 ml , 1000 ml and 5000 ml

<b>Composition</b>	Each ml contains : Benzalkonium Chloride (As Benzalkonium Chloride Solution IP) 5 % w/v With Fresh Citrus fragrance, Chelating agents, pH regulators and corrosion inhibitors and indicator.
<b>Microbicidal Properties</b>	Effective on common pathogens.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Aldehyde free.</li> <li>• Low use concentration.</li> <li>• Sparkling golden colour.</li> <li>• Fragrant.</li> <li>• Optimized residue characteristics.</li> <li>• Gives distinct blue shade when mixed in water.</li> <li>• Contains in-built cleanser for perfect cleaning.</li> <li>• Economical.</li> <li>• Universal application.</li> </ul>
<b>Mode of Action</b>	The active ingredient of Germikleen 5 % i.e. Benzalkonium chloride destroys metabolic activities of microorganisms and also inactivates cell proteins by coagulating them.
<b>Areas of Application</b>	Suitable for the cleaning and disinfection of the flooring of common areas.
<b>Method of Application</b>	<b>Disinfection of pre cleaned surface :</b> 10 ml in 1 Litre of water

## Sterapid™ (C0028)



**Sterapid™ is a spray disinfectant effective against Bacteria including Fungi, Yeasts, Protozoa and Viruses. It is suitable for the rapid disinfection of alcohol-resistant surfaces in the spray-wipe-procedure, where not only a rapid effect is required, but also residue-free drying.**

**Packing : 500 ml.**

<b>Composition</b>	Each ml contains : Isopropyl Alcohol IP 35.0% W/V, Benzalkonium Chloride IP 0.2% W/V, Didecyldimethyl Ammonium Chloride 0.5% W/V, Polyhexamethylene Methyl Biguanide Hydrochloride 0.5% W/V. Other Ingredients: DM Water, Chelating Agents, pH Regulators and Corrosion Inhibitors.
<b>Microbicidal Properties</b>	Bactericidal, Fungicidal, Tuberculocidal, Virucidal against enveloped virus (incl. HBV, HIV, HCV, SARS Virus)
<b>Features</b>	<ul style="list-style-type: none"> <li>• Easy to handle.</li> <li>• Lethal to microbes.</li> <li>• Can be sprayed directly on medical devices and equipments.</li> <li>• Instant disinfectant for surgical equipments.</li> <li>• Prevents rust formation.</li> <li>• Totally non corrosive &amp; non toxic.</li> </ul>
<b>Mode of Action</b>	Sterapid™ is a combination of alcohol and quaternary ammonium compounds which inhibit the growth of pathogenic microorganisms. They are broad spectrum disinfectant having bactericidal, tuberculocidal, virucidal (even against enveloped viruses) and fungicidal properties. Sterapid™ is supplied in form of concentrate. Wipe the surfaces to be disinfected, with a sufficient amount of the solution ensuring complete coverage. Instant disinfection of instrument and equipment is attained. The product has got a prolonged residual effect.
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• Instant disinfection of alcohol resistance surfaces, computer ,electronic devices and equipments etc.</li> <li>• For instant disinfecting toilet seats, telephone receivers ,Door knobs , Table top, Chairs, etc.</li> </ul>
<b>Method of Application</b>	<p>Spray the surfaces to be disinfected, with a sufficient amount of Sterapid™ ready to use solution, ensuring complete coverage. While using the disinfected instruments ensure that instruments is wiped free of Sterapid™ with sterile cloth before use. Wipe the surface to be used with sterile cloth after applying Sterapid™.</p> <p><b>For Wipe Dispensing System</b></p> <p>For 100 wipe roll use 600 ml Sterapid™ solution</p> <p>For 50 wipe roll use 300 ml Sterapid™ solution.</p> <p>Use 6"X 8" inch Lint Free meltblown wipe roll.</p> <p>Procedure for impregnation is given in wipe dispensing section.(C0253)</p>

## InstaCull™ ( CO109/110)



**InstaCull™ is a high level instant disinfectant produced by Synergic combination of four quats and isopropyl alcohol to make a lethal combination for rapid disinfection. The four quats work in unison with IPA to impart high level disinfectant with Nano-technology that carries the active ingredients through the cell walls for rapid, complete cell death of microbes. Combination of four quats ensures microbicidal property for 6 hours of application.**

**Packing : 500 ml.**

<p><b>Composition</b></p>	<p>Each ml contains : Isopropyl Alcohol IP : 45 % V/V, Benzalkonium Chloride IP : 0.3 % W/V, N – Propanol : 35 % V/V, Octyl decyl dimethyl Ammonium chloride: 0.13 % W/V, Dioctyl Dimethyl ammonium chloride : 0.057 % W/V , Didecyl Dimethyl Ammonium Chloride : 0.082 % W/V Other Ingredients: DM Water, Chelating Agents, pH Regulators and Corrosion Inhibitors.</p>
<p><b>Microbicidal Properties</b></p>	<p>Bactericidal, Fungicidal, Tuberculocidal, Virucidal against enveloped virus (incl. HBV, HIV, HCV, SARS Virus )</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>● The synergistic blend of five active ingredients produces the fast acting and efficient disinfection.</li> <li>● Suitable for the rapid disinfection of alcohol resistant surfaces.</li> <li>● Fast drying.</li> <li>● Aldehyde free.</li> <li>● Fragrance and colourant – free.</li> <li>● Prolonged residual action .</li> <li>● Wide spectrum of anti microbial property including virus, mycobactor and spores.</li> </ul>
<p><b>Areas of Application</b></p>	<ul style="list-style-type: none"> <li>● Instant and rapid disinfection of devices and instruments diagnostic accessories,</li> <li>● Instant and rapid disinfection of devices and instruments of Dentists</li> <li>● Instant and rapid disinfection of devices and instruments of Dental surgery</li> <li>● Instant and rapid disinfection of Orthodontic Instruments</li> <li>● Instant and rapid disinfection of Prosthodontic Instruments</li> <li>● Alcohol-resistant surfaces in both, professional and private domains</li> <li>● For disinfecting toilet seats, telephone receivers.</li> </ul>
<p><b>Method of Application</b></p>	<p>Spray the surfaces to be disinfected, with a sufficient amount of InstaCull™ ready to use solution, ensuring complete coverage. While using the disinfected instruments, ensure that instruments is wiped free of InstaCull™ with sterile cloth before use. Wipe the surface to be used with sterile cloth after applying InstaCull™.</p> <p><b>For wipe dispensing system</b></p> <p>For 100 wipe roll use 600 ml InstaCull™ solution For 50 wipe roll use 300 ml InstaCull™ Solution. Use 6”X 8” inch Lint Free meltblown wipe roll. Procedure for impregnation is given in wipe dispensing section.(CO253) .</p>

## InstaCull™ Active (C0257)



**InstaCull™ Active is a high level instant disinfectant produced by Synergic combination of four quats and isopropyl alcohol to make a lethal combination for rapid disinfection. The four quats work in unison with IPA to impart high level disinfectant with Nano-technology that carries the active ingredients through the cell walls for rapid, complete cell death of microbes. Combination of four quats insures microbicidal property for more than 8 hours of application.**

**Packing : 100 ml and 500 ml .**

<p><b>Composition</b></p>	<p>Each ml contains :Isopropyl Alcohol IP: 45 % V/V, Benzalkonium Chloride IP: 0.3 % W/V,N–Propanol : 35 % V/V,Octyl decyl dimethyl Ammonium chloride: 0.13 % W/V, Dioctyl Dimethyl ammonium chloride : 0.057 % W/V , Didecyl Dimethyl Ammonium Chloride: 0.082 % W/V Other Ingredients: DM Water, Chelating Agents, pH Regulators and Corrosion Inhibitors.</p>
<p><b>Microbicidal Properties</b></p>	<p>Bactericidal, Fungicidal, Tuberculocidal, Virucidal against enveloped virus (incl. HBV, HIV, HCV, SARS Virus)</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>● The synergistic blend of five active ingredients produces the fast acting and efficient disinfectant.</li> <li>● Suitable for the rapid disinfection of alcohol resistant surfaces.</li> <li>● Fast drying.</li> <li>● Aldehyde free.</li> <li>● Fragrance and colourant – free.</li> <li>● Prolonged residual action .</li> <li>● Wide spectrum of anti microbial property including virus, mycobactor and spores.</li> </ul>
<p><b>Areas of Application</b></p>	<ul style="list-style-type: none"> <li>● For Instant and rapid disinfection of critical equipments ,</li> <li>● For Instant and rapid disinfection of Diagnostic accessories devises and instruments.</li> <li>● Instant disinfection of alcohol resistance surfaces, computer ,electronic devices and equipments etc.</li> <li>● For instant disinfecting Toilet seats, Telephone receivers ,Door knobs , Table top, Chairs etc</li> </ul>
<p><b>Method of Application</b></p>	<p>Spray the surfaces to be disinfected, with a sufficient amount of InstaCull™ Active ready to use solution, ensuring complete coverage. While using the disinfected instruments ensure that instruments is wiped free of InstaCull™ Active with sterile cloth before use. Wipe the surface to be used with sterile cloth after applying InstaCull™ Active.</p> <p><b>For wipe dispensing system</b></p> <p>For 100 wipe roll use 600 ml InstaCull™ Active solution.</p> <p>For 50 wipe roll use 300 ml InstaCull™ Active Solution.</p> <p>Use 6”X 8” inch lint free meltblown wipe roll.</p> <p>Procedure for impregnation is given in wipe dispensing section.(C0253)</p>

## InstaCull™ Classic (C0258)



**InstaCull™ Classic is aldehyde-free, alcohol-based rapid disinfectant, produced by Synergic combination of ethyl alcohol, Quats and bigunide . It is a high level instant hand and surface disinfectant. Presence of alcohol insures killing of microbes within 30 seconds and combination of quats and bigunide imparts sustained microbicidal property for a prolonged period. It leaves no residues. It is suitable for the rapid disinfection of alcohol resistant surfaces and hygienic and surgical hand disinfection.**

**Packing :** 100 ml and 500 ml.

<p><b>Composition</b></p>	<p>Each ml contains :Ethyl Alcohol:70% V/V, Isopropyl Alcohol; 5% V/V, N, Alkyl Dimethyl Ammonium Chloride: 0.25% W/V, Polyhexamethylene Bi Gunide Hydrochloride :0.5% W/V. Other Ingredients: DM Water, Chelating Agents, pH Regulators, Perfume.</p>
<p><b>Microbicidal Properties</b></p>	<p>Bactericidal, Fungicidal, Tuberculocidal, Virucidal against enveloped virus (incl. HBV, HIV, HCV, SARS Virus )</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>• Ethyl alcohol based instant surface disinfectant.</li> <li>• Compare IPA based disinfectant , it is very mild and non irritant .</li> <li>• Acts rapidly and comprehensively.</li> <li>• Suitable for the rapid disinfection of alcohol resistant surfaces.</li> <li>• Dries quickly without leaving any residue.</li> <li>• Aldehyde free.</li> <li>• Fragrance free .</li> <li>• Prolonged residual action.</li> <li>• Wide spectrum of anti microbial property including virus, mycobactor.</li> </ul>
<p><b>Areas of Application</b></p>	<ul style="list-style-type: none"> <li>• For Instant and rapid disinfection of critical equipments ,</li> <li>• For Instant and rapid disinfection of accessories devises and instruments.</li> <li>• Instant disinfection of alcohol resistance surfaces,computer,electronic devices and equipments etc.</li> <li>• For Instant disinfecting Toilet seats, Telephone receivers ,Door knobs , Table top, Chairs etc.</li> <li>• As a deodorizer and air purifier.</li> </ul>
<p><b>Method of Application</b></p>	<p><b>Use undiluted</b>            Spray the surfaces to be disinfected, with a sufficient amount of InstaCull™ Classic ready to use solution, ensuring complete coverage. Let the surface remain wet till it gets dry on it's own. While using the disinfected surface and instruments ensure that surface and instrument is wiped free of InstaCull™ Classic with sterile cloth before use.</p> <p><b>For wipe dispensing system</b>            For 100 wipe roll use 800 ml InstaCull™ Classic solution            For 50 wipe roll use 400 ml InstaCull™ Classic Solution.            Use 6"X 8" inch lint free meltblown wipe roll            Procedure for impregnation is given in wipe dispensing section.(C0253)</p>

## HiQuat D541 ( C0212/213/214)



**HiQuat D541 is a high level surface disinfectant produced by synergic combination of 4 quaternary ammonium compounds to make it a lethal 5th generation quaternary ammonium compound, high level fogging agent and surface disinfectant. The four quats work in unison to create a high level disinfectant with nano technology that carries the active ingredients through the cell walls for rapid and complete death of the microbes.**

**Packing : 500 ml, 1000 ml and 5000 ml**

<b>Composition</b>	Each ml contains : Benzyl C12-18-alkyldimethylammonium chloride: 8.68% W/W, Didecyl dimethyl ammonium chloride: 3.906% W/W, Dioctyl dimethyl ammonium chloride: 2.604% W/W, Octyl decyldimethyl ammonium chloride: 6.51% W/W. with DM Water, Chelating Agents, pH Regulators and Corrosion Inhibitors.
<b>Microbicidal Properties</b>	Bactericidal, Fungicidal, Facultative Anaerobes, Aerobes, Fungi, Yeast, Mold and Protozoa, Virucidal against Enveloped Virus (Incl. HBV, HIV, HCV, SARS Virus.)
<b>Features</b>	<ul style="list-style-type: none"> <li>• Penetrates microbial cell wall swiftly and effectively binds the cellular protein ensures total lysis</li> <li>• Contains micro-emulsion particles that enables the active ingredients to be carried rapidly through the cell walls of micro organisms.</li> <li>• Nano particles of HiQuat D541 enters difficult to reach areas of the hard surface easily making it ideal fogging agent for hospitals, Nursing homes, Pharmaceuticals and other critical areas.</li> <li>• Aldehyde free.</li> <li>• Optimized residue characteristics.</li> <li>• Contains in built cleanser for perfect cleaning.</li> <li>• Alkaline hospital disinfectant detergent made using mixture of four 5th generation quat</li> <li>• Highly efficient in hard water, and excellent in the presence of organic soil.</li> <li>• Suitable for all types of surfaces.</li> </ul>
<b>Mode of Action</b>	HiQuat D 541 is used as high level surface disinfectant and fogging agent in hospitals, Nursing homes and pharmaceuticals for control of infection and microbial growth. It is used as high level surface disinfectant and fogging agent in critical areas like Fogging operation theatres and ICU.
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• Fogging isolation ward/room .</li> <li>• Fogging critical areas of pharmaceuticals.</li> <li>• Suitable for the cleaning and surface disinfection of washable surfaces using the wet wipe procedure .</li> <li>• Cleaning, disinfecting and deodorizing bad pans, bath room and foul smelling areas.</li> <li>• Cleaning and disinfecting hospitals and residential/nursing homes, particularly for all functional areas.</li> <li>• Cleaning and disinfecting areas in the pharmaceutical industry that are relevant to hygiene.</li> </ul>
<b>Method of Application</b>	<ul style="list-style-type: none"> <li>• Aerial Fogging :- 15 ml in 1 ltr of water (Use power fogger).</li> <li>• Disinfecting precleaned surface semi &amp; non critical instrument sterilization : 10 ml in 1 litre water.</li> <li>• Disinfectant of Critical areas :- 15 ml in 1 ltr water (Use any type of fogger).</li> </ul> <p><b>For wipe dispensing system</b>            For 100 wipe roll use 22 ml HiQuat D541 in 588 ml purified water.            For 50 wipe roll use 11 ml HiQuat D541 in 294 ml purified water.            Use Lint free meltblown wipe roll.            Procedure for impregnation is given in wipe dispensing section.(C0253)</p>



# HiQuat D 531(CO209/210/211)



**HiQuat D531 is a 5th generation quaternary ammonium compound and Bigunide based high level surface disinfectant with micro-emulsion particles that enables the active ingredients to be carried rapidly through the cell walls of micro organisms making HiQuat D531 a potent fogging agent.**

**Packing :** 500 ml , 1000 ml and 5000 ml

<p><b>Composition</b></p>	<p>Each ml contains : N, Alkyl Dimethyl Benzyl Ammonium Chloride:10%W/V, Polyhexamethylene Bigunide Hydrochloride: 8% W/V, Didecyl Dimethyl Ammonium Chloride: 5% W/V Other Ingredients: DM Water,Chelating Agents, pH Regulators and Corrosion Inhibitors.</p>
<p><b>Microbicidal Properties</b></p>	<p>Bactericidal,Fungicidal, Facultative Anaerobes, Aerobes, Fungi, Yeast, Mold and Protozoa ,Virucidal Against Enveloped Virus Incl.HBV,HIV,HCV,SARS Virus.</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>• Aldehyde free.</li> <li>• Combines Powerful disinfectant properties of 5th generation quaternary compound with that of biguanide .</li> <li>• Penetrates microbial cell wall swiftly and effectively binds the cellular protein ensures total lysis</li> <li>• Contains micro-emulsion particles that enables the active ingredients to be carried rapidly through the cell walls of micro organisms.</li> <li>• Micro-emulsion particles of HiQuat D531 enters difficult to reach areas like microscopic fissures and crevices of the hard surfaces easily.</li> <li>• Long lasting residual effect.</li> <li>• Triple killing power.</li> <li>• Prevents pathogenic mutation and resistance.</li> <li>• Efficient broad spectrum activity in high risk conditions.</li> <li>• Ideal for fogging in high risk areas.</li> </ul>
<p><b>Areas of Application</b></p>	<p>HiQuat D 531 is used as fogging agent and high level surface disinfectant in health care and pharmaceuticals for control of infection and microbial growth. It is used as fogging agent in critical areas like</p> <ul style="list-style-type: none"> <li>• Operation theaters and ICU.</li> <li>• After an isolation ward/room is emptied at the end of an outbreak.</li> <li>• After an infected patient is discharged from a room (in absence of an outbreak).</li> <li>• When an outbreak of infection occurs in a ward.</li> <li>• Suitable for the cleaning and surface disinfection of washable surfaces using the wet wipe procedure .</li> <li>• Cleaning, disinfecting and deodorizing Bad pans, bath room and foul smelling areas.</li> <li>• Cleaning and disinfecting hospitals and residential/nursing homes, particularly for all functional areas.</li> <li>• Cleaning and disinfecting areas in the pharmaceutical industry that are relevant to hygiene.</li> </ul>
<p><b>Method of Application</b></p>	<ul style="list-style-type: none"> <li>• Aerial Fogging :- 10 ml in 1 ltr of water (Use power fogger).</li> <li>• Disinfecting precleaned surface Semi &amp; non critical instrument Sterilization : 5 ml in 1ltr water (Mopping or spraying Dip instrument depending on contact time &amp; Organic load)</li> <li>• Disinfectant of Critical areas :- 10 ml in 1 ltr water (Use any type of fogger)</li> <li>• Disinfection of surgical &amp; critical Instruments: - 10 ml in 1 ltr water (Dip the instrument depending on the contact time.)</li> <li>• Pharmaceutical or vaccine manufacturing area class 100 or class A area :- 10 ml in 1 ltr water (Spray using power sprayer).</li> <li>• Decontamination of surgical refuge :- 15 ml in 1 ltr water (Dip the refuge for 40 minutes before disposing).</li> </ul> <p><b>For wipe dispensing system</b>          For 100 wipe roll use 20 ml HiQuat D531 in 588 ml purified water.          For 50 wipe roll use 10 ml HiQuat D531in 294 ml purified water.          Use Lint free meltblown wipe roll.          Procedure for impregnation is given in wipe dispensing section. (CO253)</p>

## Peroxide Silver ( CO165/166)



**Peroxide Silver is a synergized composition of Hydrogen peroxide and silver nitrate forming a highly potent disinfectant. The combined effect of hydrogen peroxide with silver nitrate results in multiple oxidation power to kill all germs . It kills the pathogen by oxidizing cell membranes and inner cell structures of pathogens. It is an eco friendly broad spectrum disinfectant (Oxidizing agent) useful for aerial fumigation, all kinds of surfaces, food farms, poultry, beverage industry and water disinfection. It is a clear colourless, odourless and tasteless liquid. It is miscible in water and air completely without foaming and coat formation.**

**Packing : 1000 ml and 5000 ml.**

<b>Composition</b>	Active Ingredients: Hydrogen Peroxide IP : 12.0% W/W, Silver Nitrate IP : 0.01% W/W . Other Ingredients: DM Water.
<b>Microbicidal Properties</b>	Bactericidal, Fungicidal, Tuberculocidal, Sporocidal, Virucidal against enveloped virus (incl. HBV, HIV, HCV, SARS Virus) Virucidal (Adeno, Polio, papova, vaccinia virus, Rotavirus and HAV)
<b>Features</b>	<ul style="list-style-type: none"> <li>• It is effective against all kinds of bacteria, viruses, yeast, mould and spore formers.</li> <li>• Penetrates and eliminates biofilm layers.</li> <li>• Non inflammable, does not form any explosive vapour.</li> <li>• It is Environmentally friendly — practically 100% degradable breaking down to water and oxygen.</li> <li>• Does not create odor or alter the taste of foodstuffs or treated water.</li> <li>• Highly effective over long periods even at very high water temperatures.</li> <li>• Has no toxic effect in its diluted state.</li> <li>• No carcinogenic or mutagenic effect.</li> <li>• Low corrosive effect.</li> <li>• As fumigant and surface disinfectant in hospital's OT, ICU, Blood banks, Poly clinics, clinical /diagnostic laboratories.</li> </ul>
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• As fumigant and surface disinfectant in pharmaceutical, Food and Dairy industries.</li> <li>• As disinfectant in Agriculture Sector, Animal Husbandry, Fruit orchards and Vegetable farms, Tobacco and Cotton manufacturers.</li> <li>• In air conditioning and Refrigeration Plants: Humidifiers, Cooling towers for elimination of algae.</li> <li>• Consumer goods and amenities: Drinking water, Swimming pools, Waste water treatment etc.</li> </ul>
<b>Method of Application</b>	<ol style="list-style-type: none"> <li>1. Aerial fumigation : A 20% concentration (20ml in 80ml of purified Water ) can be used to fumigate a 1000 cu ft area for 30 min.</li> <li>2. Surface disinfection: To disinfect surfaces of processing areas, food farms, walls and tables, a 5% solution of peroxide silver is recommended to be used after the first cleaning and rinsing with water. A contact time of 10 min gives the desired result. For soiled surfaces/ surfaces with higher microbial load, a 10% solution is recommended with a contact time of at least 20 min. Allow it to dry and do not rinse.</li> <li>3. Instrument disinfection: After cleaning and rinsing with water the instruments should be submerged in a 10% solution for at least 20 minutes. Allow them to dry and do not rinse.</li> </ol>

## Hi Clean and Cure Plus ( CO226/227/228)



**Hi Clean & Cure Plus is a highly active antimicrobial disinfectant cleaner based on synergistic combination of Quaternary ammonium compound and organic acids. It readily removes pertinacious calcification, tarnish, loose rust and rusted stains from the surface.**

**Packing : 500 ml, 1000 ml and 5000 ml**

<b>Composition</b>	Each ml Contains : Didecyl dimethyl ammonium chloride : 3%W/V, Citric Acid : 8% W/V. Other Ingredients: Chelating agents and DM water.
<b>Microbicidal Properties</b>	Bactericidal, Fungicidal, Facultative Anaerobes, Aerobes, Fungi, Yeast, Mold and Protozoa, Virucidal, Removes Algae, Slime and Biofilms.
<b>Features</b>	<ul style="list-style-type: none"> <li>· Excellent cleaning power on mineral and organic soil .</li> <li>· Effectively remove pertinacious calcification, grease, and cosmetic residues.</li> <li>· Based on a synergistic combination of Quaternary Ammonium Compounds and organic acids.</li> <li>· No adverse effect on the surface or watering system.</li> <li>· Removes stains and hard water deposits.</li> <li>· Removes stubborn organic residues of the instruments.</li> <li>· Phosphate free, citrated and biodegradable.</li> <li>· Ideal product for water storage tanks, watering system and cooling pads.</li> <li>· Excellent performance and economical.</li> </ul>
<b>Mode of Action</b>	<p>The powerful germicidal, antibacterial and fungicidal action is due to Didecyl Dimethyl ammonium chloride . It destroys metabolic activities of microorganisms and also inactivates cell proteins by coagulating them.</p> <p>Citric acid kills bacteria, mold, and mildew, it's great for general disinfecting and cleaning. It's also effective at removing soap scum, hard water stains, calcium deposits and lime.</p>
<b>Areas of Application</b>	<p>Hi Clean &amp; Cure Plus has wide application . The areas where the product is used are:</p> <ul style="list-style-type: none"> <li>• Disinfecting and cleaning of equipments and devices</li> <li>• Water storage tank, Watering system and cooling pads.</li> </ul>
<b>Method of Application</b>	<p>For disinfection and cleaning of equipments : 10 - 20 ml in 1 ltr of water.</p> <p>Pipe line disinfection and descaling : 50 ml per litre of water, circulate the diluted liquid through pipe till deposits are removed.</p>

## Stainsol (C0251)



Stainsol is a specially formulated product developed for all types of cleaning operations. It removes grease, oil, tar, dirt, blood stains etc from any surface more readily than any other medium. It can be effectively used for degreasing and cleaning surgical & medical equipments, machine parts and components, It can be used for cleaning delicate articles and fabric without harming or effecting the original texture. It is a useful cleaner for any type of metal articles and components plastics and any outer surface.

Stainsol is a powerful degreaser. It is unique mixture of soap and solvent. The nonionic detergents used in this product react immediately against dirt, scales, and spores and removes them completely. Highly active solvents act on grease, tar, oils and tough stains and dissolve them. The two mediums are combined effectively by neutralised biodegradable emulsifying agents. It also imparts unique dispersive, non redeposition and surfactant property to the product.

**Packing :** 500 ml, 1000 ml and 5000 ml

<p><b>Composition</b></p>	<p>Non Ionic and Amphoteric Surfactants, Solvents, Complexing Agents, Amino Acid Derivatives, Corrosion Inhibitors, antifoaming Agents, Preservatives.</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>• Dissolves oil, dirt, tar and stains from instruments and surface readily.</li> <li>• High degree of material compatibility for machine and instruments.</li> <li>• Economical.</li> <li>• Phosphate-free.</li> <li>• Environmentally friendly.</li> <li>• Compatible with High Level Disinfectants.</li> <li>• Contains the key ingredients important for rapid, more complete penetration and effective removal of bio-burden.</li> <li>• Contains highly effective solvents important for rapid, more complete penetration and effective removal of bio-burden.</li> <li>• Fast acting: begins to act in just one minute allowing fast turn around of instruments.</li> <li>• Easy rinsing: Its low foaming properties and neutral pH prevent it from leaving residues so that instruments can be effectively disinfected.</li> <li>• Easily removes organic stains like blood spots etc. from the cloth.</li> <li>• Stainsol is highly effective in cleaning all types of stain and dirty equipments.</li> <li>• As neutral cleaner, Stainsol is universally applicable and can be used for many types of cleaning.</li> <li>• For thorough and gentle neutral cleaning of all washable surfaces and objects.</li> <li>• Compatible with surface disinfectants to impart more disinfectant property.</li> </ul>
<p><b>Areas of Application</b></p>	<ul style="list-style-type: none"> <li>• Suitable as gloss finish cleaner for all washable surfaces and laminated floors.</li> <li>• Stainsol is particularly suitable for removing stains and other marks from the equipments, tables, chairs, cloth and other accessories.</li> <li>• Cleaning of all water-resistant materials, e.g. Synthetics, Varnished surfaces.</li> <li>• Streak- and residue-free cleaning of sensitive surfaces such as glass, mirrors, stainless steel and ceramics.</li> <li>• Maintenance cleaning of all laminated floors.</li> <li>• Automated cleaning of all floors with floor cleaning machines.</li> <li>• Cleaning of electrostatic discharge flooring.</li> </ul>
<p><b>Method of Application</b></p>	<p><b>For removing tough stains:</b> Dissolve 50 ml to 100 ml Stainsol in 1 litre of water. Soak the instrument or device completely in the dilute solution. Keep it soaked for 10 minutes. Clean with water.</p> <p><b>For removing tough and dirty stains:</b> Dissolve 50 ml. Stainsol in 1 litre of water and clean as above.</p> <p><b>For removing general stain :</b> Dissolve 15 ml Stainsol in 1 litre of water and clean as above.</p> <p><b>For normal cleaning of dirty surface :</b> Dissolve 10 ml Stainsol in 1 litre of water and clean as above.</p>
<p><b>Material compatibility</b></p>	<p>Stainsol use solution compatible to</p> <p><b>Metals :</b>Stainless steel, Copper, Brass, Aluminium</p> <p><b>Plastics :</b> Polyamide, Polyethylene, Polypropylene, Polystyrene, Polyurethane, PVC, Acryl butadiene, Silicon, Rubber, Latex, Makrolon, Acrylic, Glass, Teflon.</p> <p><b>Flooring :</b> Epoxy, Marble, Granite, Ceramic, Porcelain, Limestone, Wood etc</p>

## HiQuat Citrus Plus ( C0259)



**HiQuat Citrus Plus is aldehyde free high level surface disinfectant. HiQuat citrus plus combines the disinfectant properties of 5<sup>th</sup> generation quaternary compound with the solvency of citrus oil to make a highly efficacious disinfectant cleaner. The Synergic blend of quats and citrus oil provides an improved product performance and natural citrus fragrance. It is an ideal laundry disinfectant.**

**Packing :** 500 ml ,1000 ml and 5000 ml

<b>Composition</b>	Each ml contains : Di Decyl Dimethyl Ammonium Chloride: 9.2%W/V, N Alkyl Dimethyl Benzyl Ammonium Chloride: 13.8%W/V Citrus Oil: 3% W/V Other Ingredients: Non Ionic Surfactants, DM Water, Chelating Agents, pH Regulators and Corrosion Inhibitors.
<b>Microbicidal Properties</b>	Bactericidal, Fungicidal, Tuberculocidal, Virucidal against enveloped virus (incl.HBV,HIV, HCV, SARS Virus.)
<b>Features</b>	<ul style="list-style-type: none"> <li>• Disinfectant cleaner with low use concentration .</li> <li>• Aldehyde free.</li> <li>• Citrus fragrance.</li> <li>• Optimized residual characteristics.</li> <li>• Combines powerful disinfectant properties of 5<sup>th</sup> generation quats with the solvency and natural fragrance of Citrus oil to give a perfect disinfectant cleaner.</li> <li>• Effectively removes soils from surfaces, even in hard water up to 250 ppm hardness.</li> </ul>
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• Suitable for all types of surfaces.</li> <li>• Disinfectant for manual and automatic dish washing machine.</li> <li>• Disinfectant for manual and automatic cloth washing machine.</li> <li>• Suitable for fully automatic cold disinfection procedure.</li> <li>• High level disinfectant for bathroom.</li> <li>• Suitable for the surface disinfection of washable surfaces of the kitchen using the wet wipe procedure</li> <li>• High level disinfectant for cleaning and disinfecting kitchen tops.</li> <li>• Disinfection, deodorizing and cleaning of bed pans, toilet seats and highly contaminated areas .</li> <li>• High level disinfectant – Cleaner and Sanitizer for non -food contact surfaces</li> <li>• Disinfectant , Deodorizer and cleaner Kitchen and laundry</li> </ul>
<b>Method of Application</b>	<p><b>Manual Washing of cloth</b></p> <p><b>Dirty cloth :</b> Dilute 15 ml HiQuat Citrus Plus in 1 litre of water. Soak the cloth for 10 minutes. Scrub with brush to remove stains . Rinse in water.</p> <p><b>Normal cloth :</b> Dilute 10 ml HiQuat Citrus Plus in 1 litre of water. Soak the cloth for 10 minutes. Rinse with water.</p> <p><b>Automatic washing machine:</b> Add HiQuat Citrus Plus in the tumble in the ratio of 10 ml Hister Citrus Plus: 1 litre of water along with the detergents and clean as per the cleaning procedure.</p>

## Hister Advance ( CO260)



**Hister Advance is a high level surface disinfectant with nano technology that carries the active ingredients through the cell wall for rapid complete cell death of bacteria, virus, fungi, spores and protozoa. It interacts with the lipid and protein of the microbes including enveloped virus. Hister Advance has broad spectrum antimicrobial activity. It is safe to use and economical.**

**Packing :** 500 ml,1000 ml and 5000 ml

<p><b>Composition</b></p>	<p>Each ml contains : Active Ingredients: Didecyl Dimethyl Ammonium Chloride: 13.0%W/V, N,Alkyl Dimethyl Ammonium Chloride: 13.6% W/V ,Polyhexa Methylene Biguanide Hydrochloride: 5.0% W/V Other Ingredients: DM Water, Non Ionic surfactant ,Chelating Agents,pHRegulators and Perfume.</p>
<p><b>Microbicidal Properties</b></p>	<p>Bactericidal, Fungicidal, Tuberculocidal, Virucidal against enveloped virus ( incl. HBV, HIV, HCV, SARS Virus)</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>▪ Aldehyde free. ▪ Combines Powerful disinfectant properties of 5<sup>th</sup> generation quaternary compound with that of biguanide ▪ Penetrates microbial cell wall swiftly and effectively binds the cellular protein and lipids ensures total lysis. ▪ Long lasting residual effect.</li> <li>▪ Triple killing power. ▪ Prevents pathogenic mutation and resistance.▪ Efficient broad spectrum activity in high risk conditions.</li> </ul>
<p><b>Areas of Application</b></p>	<ul style="list-style-type: none"> <li>• High level disinfection and cleaner for heat sensitive and heat resistant instruments.</li> <li>• Suitable for manual and semiautomatic circulation procedure.</li> <li>• High level disinfectant and cleaner for manual and automatic dish washing.</li> <li>• High level disinfectant and cleaner for manual and automatic cloth washing.</li> <li>• Suitable for fully automatic cold disinfection procedure.</li> <li>• High level disinfectant and cleaner for bathroom.</li> <li>• High level disinfectant for cleaning and disinfecting kitchen tops.</li> <li>• Cleaning, disinfecting and deodorizing Bad pans, bathroom and foul smelling areas.</li> <li>• Disinfectant and cleaner for hospitals and residential/nursing homes, particularly for all functional areas.</li> </ul>
<p><b>Method of Application</b></p>	<p><b>Manual Washing of cloth</b>  <b>Dirty cloth :</b> Dilute 10 ml Hister Advance in 1 litre of water. Soak the cloth for 10 minutes. Scrub with brush to remove stains . Rinse in water.  <b>Normal cloth :</b> Dilute 5 ml Hister Advance in 1 litre of water. Soak the cloth for 10 minutes. Rinse with water.  <b>Automatic washing machine:</b> Add Hister Advance in the tumble in the ratio of 5 ml Hister Advance : 1 litre of water along with the detergents and clean as per the cleaning procedure.</p>

## Biowizard Air Purifier (C0263)



**Biowizard Air Purifier is a unique product manufactured by using a patented & proprietary process that creates a composite biocatalyst from a unique blend of micro organisms, enzymes, and co-factors. to control foul odor of the decaying garbage, animal carcass, dead fish, biomedical waste, rotting food waste from hospitality industry and canteens.**

**Biowizard Air Purifier works in minutes, reacting bio-chemically with odor-causing molecules. It breaks down volatile organic compounds into inert and smell-free compounds. Biowizard Air Purifier rapidly reduces odor in land fill sites and composting facilities.**

**Packing : 500 gms and 1 kgs.**

<p><b>Composition</b></p>	<p>Specially formulated mixtures of Soya and Rice Bran powder, Micronutrients, Specially developed enzymes, Eucalyptus oil, Lemon grass oil, Citronella oil, Neem oil, Terpeneol, Camphor oil, Terpentene oil and Active microbial culture of Biosafety level-1. ( Our Patented technology ).</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>• Biowizard activates beneficial microbes to fully digest the compounds that cause most noxious smells including ammonia, hydrogen sulphide, amines and mercaptans.</li> <li>• Biowizard contains enzymes, antioxidants and essential oils which in combination imparts buffer effect on odor reducing the intensity of the odor substantially immediately after application.</li> <li>• Fast acting.</li> <li>• Effective on a wide range of volatile organic compounds (VOC).</li> <li>• Removes rather than mask odor.</li> <li>• Cost effective.</li> <li>• Operative at low dosage rates.</li> <li>• Long residual effect.</li> <li>• 100% natural and non-toxic.</li> <li>• Safe for humans and the environment.</li> <li>• Each granule encapsulates essential oils, consortium of microbes, enzymes and nutrients.</li> </ul>
<p><b>Areas of Application</b></p>	<p>Municipal dumping grounds, Chronic garbage spots ,Garbage Carrying Vehicles, Hotels &amp; restaurants , Vegetable &amp; Fish Market ,Hospitals, Canteens , Food processing industries , Industries and offices , Railways ,Airports, Industries ,Office complexes to control foul odor and elimination of green house gases.</p>
<p><b>Method of Application</b></p>	<p>Biowizard Air Purifier is pre-activated before being sprayed on waste for odor control. It is mixed in water at a ratio of 5 gm per litre of water. The activation time is 8 to 12 hours at room temperature. The activated liquid is then mixed in the water in the ratio of 1part ( activated Biowizard Air Purifier : 5 part ( water) and sprayed to target areas. The activity of Biowizard Air Purifier enhances considerably when 0.2 to 0.5% Biowizard Deo ( C0266) is mixed in the diluted Biowizard Air Purifier .</p>

**References :**

- 1) Biological methods for odor control, (Krzysztof Barbusinski, Katarzyna Kalemba )
- 2) The Biological Treatment (Gary Hanson, Scott Tutas.)
- 3) Fundamentals of Odor Control (Dague R.)
- 4) Technologies for deodorization of malodorous gases (Izabela Wysocka, Jacek Gebicki & Jacek Namiesnik.)



## Biowizard Aqua ( C0264)



**Water pollution is a major cause of concern for the humanity. Biowizard Aqua is developed by using an innovative patented technology to address this problem. Biowizard Aqua combines a broad spectrum of microbial enzymatic activities with specially designed non-enzymatic, biocatalysts that work concomitantly to significantly enhance overall digestive reaction rates.**

**Packing : 500 gms and 1 kgs.**

<p><b>Composition</b></p>	<p>Dextrose, Skim Milk Powder, Starch , Multienzymes, Micronutrients, Treated waste water ( Our Patented Technology) and Salts.</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>• Reduces odour significantly .</li> <li>• Reduces sludge biomass .</li> <li>• Substantial energy savings due to less aeration.</li> <li>• Lowers sludge haulage and disposal costs.</li> <li>• Reduces chemical additive costs . Increases plant capacity.</li> <li>• Reduces plant equipment wear and tear.</li> <li>• Improves process stability.</li> <li>• Improves effluent quality(reduces BOD, COD, SS, TKN and Turbidity).</li> <li>• Suitable for all biological treatment plants.</li> <li>• No capital costs required for implementation.</li> <li>• 100% natural and biodegradable.</li> <li>• Non-toxic, non-chemical and non-pathogenic.</li> <li>• Simplifies plant operation with minimal risk of biomass loss.</li> <li>• Cost effective dosage protocol.</li> <li>• Nutrient reduction.</li> <li>• Improves final discharge.</li> <li>• Significantly reduces greenhouse gas emissions .</li> <li>• Reduced operating costs.</li> </ul>
<p><b>Areas of Application</b></p>	<p>Treatment and elimination of foul odour of sewage in small and big sewage Treatment Plants, Treatment and elimination of odor and green house gases of waste water in Hospitals and Nursing homes.</p>
<p><b>Method of Application</b></p>	<p><b>Pre-activation:</b> Mix Biowizard Aqua in fresh water at a ratio of 5 gm/L. Leave the container uncovered in a warm place above 20°C and let it activate for 8-12 hours. Stir before applying. <b>Application:</b> Mix the Activated Biowizard Aqua in 500 liters to 1000 liters dozing tank. Feed the liquid in the main treatment plant with the help of a dozing pump.</p>

**References :**

- 1) Wastewater Treatment Engineering (Mohamed Samer)
- 2) Handbook of Biological Wastewater Treatment: Second Edition. (Adrianus van Haandel, Jeroen van der Lubbe.)
- 3) Waste water Treatment: Biological January 2013 (Jorgenson SE)
- 4) Basic Principles of Wastewater Treatment (Marcos von Sperling)

## Biowizard Sanitary ( C0265)



**Biowizard Sanitary is a natural Microbial and enzyme-based system that has the ability to rapidly and fully digest organic pollutants like human fecal matter through high speed enzymatic catabolism. It is developed using an innovative patented technology. It digests organic waste and eliminates odor, removes sludge build up in septic tanks, Bio-toilets, Drain pipes and leach pits. The microbes in Biowizard Sanitary are specifically adapted to tolerate exposure to household chemicals.**

**Packing :** 500 gms and 1 kgs.

<b>Composition</b>	Dextrose, Micronutrients, Specially developed enzymes, treated waste water ( Our Patented Technology)																								
<b>Features</b>	<ul style="list-style-type: none"> <li>• Biologically breakdowns organic waste in Septic tank, Toilets drains and Kitchen drains</li> <li>• Preventing blockages in drain or pipe lines</li> <li>• Keeps sewer lines, septic tanks and drain fields cleaner</li> <li>• 100% environment friendly</li> <li>• Reduces faecal coliforms</li> <li>• Completely eliminates odour problems</li> <li>• Lowers maintenance cost</li> <li>• Biowizard Sanitary is a septic drain field cleaner that does not eat away pipes or fixtures like other harsh and harmful chemical-based products do. It is all-natural bacterial enzyme formula helps to maintain environmentally friendly septic systems without using any chemicals.</li> </ul>																								
<b>Areas of Application</b>	Reducing sludge formation and elimination of foul smell from septic tanks of Hospitals and nursing Homes.																								
<b>Method of Application</b>	<p><b>Instruction for use:</b> Mix the Biowizard Sanitary in a (14 to 15 ltr) bucket of water and flush it down the toilet bowl. In case of multiple toilet bowls, it is advised to split the bucket of product solution across all toilet bowls. This helps to clear all the drain lines leading to the septic tank.</p> <p><b>Monthly Dosing for Household &amp; Individual Toilets :</b> 50 gms in each Toilet</p> <p><b>Monthly Dosing protocol for Septic Tanks</b></p> <p>This Biowizard Sanitary Dosing Protocol is suitable for individual, Commercial and Municipal septic tank systems.</p> <p><b>Key Objectives :</b> Solids reduction leads to increased capacity of system. Odour reduction. Improved leach field infiltration. Reduced effluent loadings.</p> <p><b>Tanks with low inflow:</b></p> <table border="1"> <thead> <tr> <th>Tank Size</th> <th>Dose in gms</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>3500 litre</td> <td>250 gms</td> <td>Bi Monthly</td> </tr> <tr> <td>9000 litre</td> <td>350 gms</td> <td>Bi Monthly</td> </tr> <tr> <td>30000 litre</td> <td>500 gms</td> <td>Bi Monthly</td> </tr> </tbody> </table> <p><b>Tanks with High inflow:</b></p> <table border="1"> <thead> <tr> <th>Tank Size</th> <th>Dose in gms</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>3500 litre</td> <td>250 gms</td> <td>Bi Weekly</td> </tr> <tr> <td>9000 litre</td> <td>350 gms</td> <td>Bi Weekly</td> </tr> <tr> <td>30000 litre</td> <td>500 gms</td> <td>Bi Weekly</td> </tr> </tbody> </table>	Tank Size	Dose in gms	Frequency	3500 litre	250 gms	Bi Monthly	9000 litre	350 gms	Bi Monthly	30000 litre	500 gms	Bi Monthly	Tank Size	Dose in gms	Frequency	3500 litre	250 gms	Bi Weekly	9000 litre	350 gms	Bi Weekly	30000 litre	500 gms	Bi Weekly
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**References :**

- 1) Water and Wastewater Engineering Systems. Pitman Publishing, London.(Barnes, B., Bliss, P.J., Gould, B.W., and Vallentine, H.R. 1981.)
- 2) "Septic Tank Systems - State of the Art" (Gunn, I.W. 1988.)
- 3) Role of Bacterial Additives for Biological Treatment of Domestic Wastewater in Septic Tank. (Bahaa Hemdan)
- 4) Septic tank (Karen Mancl.)

## Biowizard Deo (C0266)



**Biowizard Deo is a multipurpose and specially formulated product for neutralizing bad odour and repelling insects and cleaner cum stain remover. It masks foul smell of garbage dumps, large garbage dumping grounds, fish, mutton, Poultry and Vegetable markets. Biowizard Deo combines the properties of strong deodorants, insect repellents with that of strong dispersive surfactants and specially developed enzymes to form a unique product which on one hand keeps the place free from insects and on the other hand creates refreshing fragrance and keeps the place clean and stain free. It does not interfere with the natural fermentation process in the garbage dumping grounds.**

**Pack Size :** 100 ml ,500 ml and 1 ltr.

<b>Composition</b>	Orange oil, Lemon grass oil, Eucalyptus oil, Citronella oil, Camphor Oil, Terpeneol, Pine oil, Neem oil, Specially developed combination of Multi Enzymes.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Deodorizes and repels insects and cleans in one step.</li> <li>• Repels insects and reptiles.</li> <li>• Creates refreshing atmosphere.</li> <li>• Fragrance lasts for a very long period.</li> <li>• Formulated essential oils, naturally occurring plant extracts and specially developed enzymes.</li> <li>• All the compounds used in the formulation are biodegradable and eco-friendly.</li> <li>• Completely masks the foul, obnoxious and offensive smell with its own soothing fragrance.</li> <li>• Does not interfere or alter the natural fermentation processes in garbage dumping grounds.</li> <li>• Prevents scale formation.</li> <li>• Excellent cleaner cum stain remover.</li> <li>• Nontoxic.</li> </ul>
<b>Areas of Application</b>	For masking foul odor and cleaner cum insect repellent in hospitals.
<b>Method of Application</b>	Biowizard Air Purifier(C0263) is pre-activated before being sprayed on waste for odor control. It is mixed in water at a ratio of 5 gm per litre of water. The activation time is 8 to 12 hours at room temperature. The activated liquid is then mixed in the water before being applied to target areas. The activity of Biowizard Deo enhances considerably when 0.2 to 0.5% Biowizard Deo is mixed in the diluted Biowizard Air Purifier(C0263) .

**References :**

- 1) Essential Oil Repellents (R V GEETHA , ANITHA ROY.)
- 2) History of insect repellents. (Moore, S.J. and M. Debboun 2007.)
- 3) Efficacy and repellency of essential oils (Hanem F. Khater and Christopher J. Geden.)
- 4) Efficacy of essential oils from edible plants as insecticides. (Palacios, S.M., A. Bertoni ,Y. Rossi, R. Santander, and A. Urzua. 2009.)



## Powercull - Active

(CO122)

Aldehyde free Disinfectant cum Cleaner

## Disinfectant Wipes in pouch packing

(CO175) Ready to use Antimicrobial Wipes  
for Surface and instruments



## Peroxide Silver

(CO165)

Peroxide Silver is a universal eco friendly broad  
spectrum disinfectant (Oxidizing agent)



### References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 39th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.





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OVERSEAS OFFICE

- Europe -

HiMedia Laboratories GmbH,  
Marie-Curie-Str. 3, 64683,  
Einhausen, Germany.  
Tel : +49 6251 989 24 26  
Fax : +49 6251 989 24 27  
Email :  
infoeu@himedialabs.com

OVERSEAS OFFICE

- North America -

HiMedia Laboratories LLC,  
507 School House Rd,  
Kennet Square 19348,  
PA, USA.  
Tel : +1-484-734-4401  
Fax : +1-484-734-4402  
Email :  
infous@himedialabs.com

- CORPORATE OFFICE -

Plot No. C40, Road No. 21Y, MIDC,  
Wagle Industrial Area,  
Thane (West) - 400604,  
Maharashtra, India.  
Tel : +91-22-6147 1919 / 6116 9797 / 6903 4800  
Fax : +91-22-6147 1920  
Email : info@himedialabs.com

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