

HIMEDIA®



“Reducing Bioburden
a critical need of the day”

Professional Care PRODUCTS

Hygienic Hand Wash



Instrument Disinfection



Surface Cleaning



Floor Cleaning



Surgical Hand Wash



Environmental Disinfection



HiMedia Laboratories Pvt. Limited
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HIMEDIA®
For Life is Precious

New Upcoming Professional Disinfectants For Poultry & Animal Husbandry



◆ HiGlut TH4

(CO220, CO221, CO222)

◆ Hiquat D 905

(CO223, CO224, CO225)

◆ HiClean & Cure Plus

(CO226, CO227, CO228)

Professional Care Products

Amongst our wide range of products, Professional care products (disinfectants) play an important role in reducing Bioburden especially in critical areas such as operation theatres, hospitals, laboratories, medical equipments, production areas as well as in maintaining personal hygiene. Different disinfectants have different target ranges and not all disinfectants can kill all microorganisms. For this reason we have different categories of disinfectants based on their application & composition.

Hand Disinfectants		
Hand sanitizers (To be used without water)	Hand protection (With extra moisturizing agents for sensitive skin)	Hand cleansers (To be used with water)
Triclogel (CO002/3/4/5/6/7/155/088)	Sterifast™ (CO129/130)	HiShield™ -2 (CO115/CO116)
Zentol (hand rub)(CO025/26/27/169)	HiShield™ hand guard(gel)(CO011/CO013)	HiShield™ hand wash(CO136/148/149)
HiShield™ Hand guard(gel)(CO011/CO013)	HiShield™ Moisturising lotion (CO133)	HiShield™ - T (CO140/CO141)
HiShield™ Hand gel(CO137/138/139)	HiShield™ - T (CO140/CO141)	HiShield™ - 4 (CO127/128)
Sterifast™ (CO129/130)	Sterifast™ wipes pouch (CO184/185)	
Sterifast™ plus (CO131/132)		
HiShield™ Non Alcoholic (NAHS) hand Sanitizer (CO186/187)		
HiShield™wipes pouch (CO176/183)		
HiQuat wipes pouch (CO175/182)		

Skin Antiseptics	
Skin Antiseptics	Antiseptic Body Cleansing
HiShield™ spray (CO151/117/118)	HiShield™ - 4 (CO127/128)
HiShield™ PVP scrub (CO142/143)	HiShield™ - 5 (CO134/135)
	HiShield™ PVP solution (CO144/145/146)
	HiShield™ 5% PVP solution (CO188/189/190)

Instruments / Equipments (Disinfection & Cleaning)	
Aldehyde Based	Aldehyde Free
AlkaSept (CO152/102)	Sterapid (CO028)
AlkaSept plus (CO103/104/105)	Instacull™ (CO109/110)
AlkaSept OPA (CO161/162)	Powercull™ (119/120/121)
HiClean And Cure (CO193/194/195)	Powercull™ active (CO122/123/124)
	Powercull™ plus (CO125/126/150)
	Hispark cleaning solution (HS002)
	HiShield™ - Aerosol AL spray (CO158 AGT)
	IPA 70% (CO181)
	SteriSwift™ wipes (CO100)
	SteriSwift™ wipes pouch (CO173/174)
	HiPolyzyme detergent cleaner (CO159/160)
	HiKleen (CO196/197)
	HiQuat Citrus (CO200/201/202)

Surface Disinfectants		
Surface Cleaning	Sterile Surface Disinfectant	Surface & Sanitary Disinfection Concentrates
Hispark Alkaline cleaning Solution (HS001)	CombiSept™ (CO032/33/34)	Germitol (Aldehyde free-CO008/9)
HiClean (liquid soap)(AS023)	Bactrex plus (CO106/107/108)	Germisol (Aldehyde free-CO084/86)
Peroxide Silver (CO165/166)	HiQuat Citrus (CO200/201/202)	Combiclean (CO031)
PowerCull™ extra (CO167/168)	HiSter Plus (CO198/199)	PowerCull™ extra (CO167/168)
AlkaSept Active (CO163/164)		
Alkasept plus (CO103/104/105)		

Environment Sanitizer		
Antimoth (CO014)	Peroxide Silver (CO165/166) All Purpose Disinfectant concentrate	HiShield™ - AL Spray (CO158AGT/CO154GT/CO181)

Disinfectants Kits		
HiCare Personal Care Disinfectant Kit (CO178)	HiCare Hand & Skin Disinfectant Kit (CO179)	HiCare Hand & Skin Disinfectant Kit NAH & SC (Non-alcoholic) (CO180)

Fogging Agents		
HiQuat D331(CO206/207/208)	HiQuat D531 (CO209/210/211)	HiQuat D541 (CO212/213/214)
Peroxide Silver (CO165/166)		

Disinfectants for Poultry & Animal Husbandary	
HiGlut TH4 (CO220/221/222)	HiQuat D905 (CO223/224/225)
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Microbes are ubiquitous and the requirement of a microbe - free environment is a challenging task. Here comes the role of disinfectants and

antiseptics to control the bioburden in various areas such as clean rooms, Laboratories, Operation theatres and sterile rooms, manufacturing area etc. **Cleaning, Disinfection and Contamination Control** are the three processes that need to be focused on.

Clean rooms play an important role in hospitals, pharmacies and in providing clean air zones for operations. The 'Clean Room' must contain Clean air, strict entry, clothing requirements for personnel and prevention of contamination with microbes from transported in consumables or equipment or personnel. Thus, contamination control within a cleanroom requires the use of cleaning and disinfection agents. Cleanroom wipes are a routine part of the cleaning and disinfection program for cleaning equipment, windows and walls. Following the application of disinfectant, it is a general practice to rinse equipment with 70% IPA to remove the residual build up. As per the scheduled program of the enduser, rinsing is typically based on visual observation and is carried out once a week, once a month or once a quarter depending on the levels of residue.

Most disinfectants have poor cleaning ability and will not easily penetrate 'soil' (dust, grease and dirt). Hence surfaces must be rinsed frequently with a detergent and then disinfected at frequent intervals. Thus disinfectants are only effective when used in conjunction with a detergent. An important point to be checked and confirmed is that the disinfectant is compatible with the detergent used. This is generally achieved by the use of neutral, non-foaming detergents.

Hands whether gloved or ungloved are one of the main ways of spreading infection or transferring microbial contamination. The resident flora and transient flora (eg. *Streptococcus pyogenes*) and methicillin-resistant *S.aureus* and *P.aeruginosa* requires to be removed. Use of antiseptics to disinfect hands has been shown to be more effective than soap and water in reducing the counts of bacteria on skin. The commonly used antiseptics include 4% Chlorhexidine, 10% Povidone-Iodine, 3% Hexachlorophene, 70% Isopropyl Alcohol and 0.5% Chlorhexidine in 95% Alcohol. Thus the appropriate use of hand disinfectants and hand hygiene becomes a part of the process of 'good contamination control'.

Disinfectants vary in their spectrum of activity, modes of action and efficacy. For eg - some are bacteriostatic, where the ability of the bacterial population to grow is halted. Others are bactericidal where in the lysis of the cell occurs. There are many different types of disinfectants for use within the pharmaceutical industry, food industry, healthcare sectors, with different spectrums of activity and modes of action. The mechanisms of action are not always completely known and continue to be investigated.

Definitions as per USP <1072>

- **Antiseptic** - An agent that inhibits or destroys microorganisms on living tissue including skin, oral cavities and open wounds.
- **Disinfectant** - A chemical or physical agent that destroys or removes vegetative forms of harmful microorganisms (fungi, viruses and bacteria) when applied to a surface but not necessarily their spores. Sporicidal and antiviral agents may be considered a special class of disinfectants.
- **Decontamination** - The removal of microorganisms by disinfection or sterilization.
- **Cleaning agent** - An agent for the removal from facility and equipment surfaces of product residues that may inactivate sanitizing agents or harbor microorganisms.
- **Sporicidal agent** - An agent that destroys bacterial and fungal spores when used in sufficient concentration for a specified contact time. It is expected to kill all vegetative microorganisms.
- **Sterilant** - An agent that destroys all forms of microbial life including fungi, viruses and all forms of bacteria and their spores. Sterilants are liquid or vapor-phase agents.
- **Disinfectants** are often categorized as high-level, intermediate-level, and low-level by medically oriented groups based upon their efficacy against various microorganisms.
- **High-level** kills all pathogens, including endospores
- **Intermediate-level** kills fungal spores, protozoan cysts, viruses and pathogenic bacteria.
- **Low-level** kills vegetative bacteria, fungi, protozoa and some viruses.

Classification of Disinfectants

Based on their chemical entity, the disinfectants are classified as below

Chemical Entity	Classification	Example
Aldehydes	Sporicidal agent	2% Glutaraldehyde
Alcohols	General purpose disinfectant, antiseptic, antiviral agent	70% Isopropyl alcohol, 70% alcohol
Chlorine and sodium hypochlorite	Sporicidal agent	0.5% sodium hypochlorite
Phenolics	General purpose disinfectant	500 mcg/g chlorocresol, 500mcg/g chloroxyleneol
Ozone	Sporicidal agent	8% gas by weight
Hydrogen peroxide	Vapor phase sterilant, liquid sporicidal agent, antiseptic	4mcg/g H ₂ O ₂ vapor, 10%-25% solution, 3% solution
Substituted biguanides	Antiseptic agent	0.5% Chlorhexidine gluconate
Peracetic acid	Liquid sterilant, vapor phase sterilant	0.2% Peracetic acid, 1mcg/g peracetic acid
Ethylene oxide	Vapor-phase sterilant	600mcg/g Ethylene oxide
Quaternary ammonium compounds	General purpose disinfectant, antiseptic	200mcg/g Benzalkonium chloride
B-Propiolactone	Sporicidal agent	100mcg/g B-Propiolactone

Selection Criteria for Disinfectant

The selection of disinfectants for contamination control is a crucial decision of individual end user and requires to be standardized at their end. The disinfectants chosen must be able to maintain the low levels of microbial contamination pre-defined for each class of clean room.

Grade	Air sample cfu/ cu.m	Settle plates (diam.90mm) cfu/4hours	Contact plates (diam.55mm) cfu/plate	Glove Print5 fingers cfu/ glove
A	<1	<1	<1	<1
B	10	5	5	5
C	100	50	25	-
D	200	100	50	-

Table 1: GMP recommended limits for microbial contamination

A range of different factors needs to be considered as part of the process of selection including the mode of action, efficacy, compatibility, cost and compliance to current health and safety standards.

In selecting disinfectants many pharmaceutical manufacturers opt to have two 'in-use' disinfectants and sometimes to have a third disinfectant as a reserve in case of a major contamination incident arising. The reserve disinfectant will be more powerful and sporicidal such as an oxidizing agent, the routine use of which is restricted because of likely damage to the equipment and premise.

Since the effectiveness of the disinfectant is dependent on the types of microorganisms recovered from that area, the selection of disinfectant in any institution/laboratory/cleanroom is not a one time decision and remains a part of the ongoing quality reviews as observed by the cleanroom manager/responsible person.

Type of disinfectant

Disinfectants can be divided into two groups

- i) Non-Oxidising: includes aldehydes, phenolics, quaternary ammonium compounds
- ii) Oxidising agents: have wider spectrum of activity than non-oxidising disinfectants. Include halogens, peracetic acid and chlorine dioxide.

Sporicidal activity

A sporicidal disinfectant should be used either on a monthly or quarterly basis as per the defined protocol of the user depending on the bioburden. Sporicidal disinfectants are oxidizing agents and have greater health and safety considerations, particularly the chlorine based ones. These are aggressive to certain types of surface (especially stainless steel) and will cause discoloration and abrasion. Therefore, the residue of the disinfectant should be removed by wiping with sterile water or alcohol.

Rapid action

A disinfectant is considered as rapid in action when it has an ideal contact time of less than 10 minutes. The contact time is the time taken for the disinfectant to bind to the microorganism, traverse the cell wall and membrane and to reach its specific target site. The longer the contact time, the longer the surface needs to be left before use.

Rotation of products

It is believed that use of same disinfectant for extended periods of time would eventually develop resistance towards the agent. By altering disinfectants, it may be possible to avoid this problem. However, the development of microbial resistance to disinfectants is less likely, as disinfectants are more powerful biocidal agents than antibiotics and are applied in high concentrations against low populations of microorganisms usually not growing actively (USP<1072>).

Compatibility between detergent and disinfectant

For an effective disinfection, surfaces must be cleaned first with detergents followed by disinfectants. Some disinfectants are not compatible with certain detergents. In such cases, the detergent residues may neutralize the active ingredient in the disinfectant. Therefore the use of neutral and non-foaming detergents is generally recommended.

Residue on surface

Some disinfectants leave residues on surfaces leaving it sticky and inactivating the other disinfectants.

Surface compatibility

The disinfectants should not damage the material to which they are applied and can cause corrosion and discolouration. For aggressive disinfectants, a wipe down using water or a less aggressive disinfectant such as an alcohol should be used to remove the residues.

Safety

The disinfectant should be safe to use. The main concern is with operator and upon the environment, especially the way it is disposed off after use. The directions of the manufacturer for use should be followed. Under no circumstances should disinfectants of different concentrations be mixed. Appropriate safety equipment such as face shields, safety glasses, gloves and uniforms must be used.

Sterility of disinfectant

Sterile filtered disinfectants are the requirement of certain high-grade cleanroom activities. Such products are available in gamma irradiated containers with outer wrapping.

Hand Sanitizers

They should not cause excessive drying and must be nonirritating. These fall into two categories:

- i) Alcohol based- The more commonly used hand sanitisers are isopropyl alcohol or denatured alcohol at a concentration of 70%.
- ii) Non-alcohol based- These contain chlorhexidine or hexachlorophene.

Efficacy Testing of Disinfectant

Disinfectants utilized in routine cleaning must be tested for its efficacy to confirm their effectiveness for use. The effectiveness of a disinfectant depends on its intrinsic biocidal activity, the concentration of the disinfectant, the contact time, the nature of the surface disinfected, the hardness of water used to dilute the disinfectant, the amount of organic materials present on the surface, and the type and the number of microorganisms present. As per USP general chapter <1072>, to demonstrate the efficacy of a disinfectant it may be necessary to conduct the following test:

- **Use-dilution tests** screening disinfectants for their efficacy at various concentrations and contact times against a wide range of standard test organisms and environmental isolates
- **Surface challenge tests** using standard test microorganisms and microorganisms that are typical environmental isolates, applying disinfectants to surfaces at the selected use concentration with a specified contact time, and determining the log reduction of the challenge microorganisms

The test system is inoculated with sufficient inoculum to demonstrate at least a two log₁₀ reduction for bacterial spores and a three log₁₀ reduction for vegetative bacteria and allowed to dry. The inoculated system is then exposed to the desired concentration of the disinfectant for the desired contact time. The surviving population in the test system is determined and the log₁₀ reduction calculated. This data is used to establish a scientifically supported disinfection program for the client's facility.

It should further be noted that neutralizers that inactivate the disinfectants should be included in either the diluent or microbiological media used for microbial enumeration or both. USP recommends universal neutralizer broths such as DeyEngley broth that contains 0.5% polysorbate 80 and 0.7% lecithin along with other ingredients.

Efficacy Testing of Disinfectant

Disinfectant Tested: Germisol

Method followed (as per USP general chapter <1072>:

- I. Use-dilution test (Tube –Suspension Method)
- II. Surface challenge test (Surface Swab Method)

(I)Tube Suspension Method:

To measure the efficacy of Germisol at recommended concentration of 1:70 against standard test organisms and environmental isolates at different contact time.

Result :

I. Tube-Suspension Method

Organism (ATCC)	Log10 reduction observed with contact period (in min)					
	Positive control (Inoculum) (cfu/ml)	0 min	5 mins	10 mins	15 mins	Significant log reduction observed at
<i>E. coli</i> (11229)	31 x 10 ⁶	320	57	00	00	5 mins
<i>S. aureus</i> (6538)	47 x 10 ⁶	270	95	00	00	5 mins
<i>P. aeruginosa</i> (15442)	72 x 10 ⁶	385	132	15	00	10 mins
<i>B. subtilis</i> (19659)	42 x 10 ⁶	265	90	00	00	5 mins
<i>M. luteus</i> (9341)	35 x 10 ⁶	113	77	27	00	10 mins
<i>C. albicans</i> (10231)	22 x 10 ⁵	185	96	11	00	10 mins
<i>A. niger</i> (16404)	35 x 10 ⁵	241	85	04	00	10 mins
Environmental isolate (1)	43 x 10 ⁶	166	72	00	00	5 mins
Environmental isolate (2)	28 x 10 ⁶	158	84	00	00	5 mins
Negative control	-	-	-	-	-	-

II. Surface Swab Method

Surface Swab Method : To screen the efficacy of Germisol at various contact times against surface material types used in clean rooms and other controlled areas.

Surface tested: Stainless Steel						
Organism (ATCC)	Log10 reduction observed with contact period (in min)					
	Positive control (Inoculum) (cfu/ml)	0 min	5 mins	10 mins	15 mins	Significant log reduction observed at
<i>E. coli</i> (25922)	13 x 10 ⁶	301	49	00	00	5 mins
<i>S. aureus</i> (25923)	35 x 10 ⁶	171	35	00	00	5 mins
<i>P. aeruginosa</i> (27853)	31 x 10 ⁶	189	87	13	00	10 mins
<i>S. Typhi</i> (6539)	15 x 10 ⁶	273	73	00	00	5 mins
<i>B. subtilis</i> (19659)	24 x 10 ⁶	119	51	06	00	10 mins
<i>C. albicans</i> (10231)	13 x 10 ⁵	167	46	09	00	10 mins
<i>A. niger</i> (16404)	11 x 10 ⁵	94	38	02	00	10 mins
Environmental isolate (1)	21 x 10 ⁶	233	05	00	00	5 mins
Environmental isolate (2)	11 x 10 ⁶	194	12	00	00	5 mins
Negative control	-	-	-	-	-	-

Acceptance criteria:

As per USP general chapter <1072>, the disinfectant must demonstrate more than 2 (for bacterial spores) to 3 (for vegetative cells) log reduction.

Conclusion:

The efficacy testing of Germisol has been carried out as per the protocol and it is found to conform to specifications of disinfectant agent.

It can be concluded that Germisol shows bactericidal, fungicidal as well as sporicidal activity for the organisms tested & specified log reduction was achieved at between 5-10 mins contact time for various tested organisms.

HiCare Triclogel

Smart Care for the hands that care

What is HiCare Triclogel ?

HiCare Triclogel is an alcoholic Antiseptic RUB-IN Gel for instant and complete disinfection of hands with powerful, safe and long lasting antimicrobial action. The use of soap, detergents, water and towel is completely eliminated when HiCare Triclogel is used.

What does HiCare Triclogel contain ?

Active ingredients : 75%v/v Ethanol and 0.5%w/v Triclosan

Other ingredients : Isopropyl Alcohol, Propylene glycol, Tocopheryl Acetate, Isopropyl Myristate, Glycerine, Aloe Barbadensis Juice, Alkyl Acrylate, Alkyl Amine, Perfume, Colour.

How does HiCare Triclogel act ?

Ethanol acts by denaturing the microbial proteins while Triclosan acts by breaking the microbial cell walls. The vigorous rubbing action of hands till all of HiCare Triclogel is absorbed ensures complete bactericidal action.

How effective is HiCare Triclogel ?

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. Triclosan gets adsorbed onto the skin, destroys the resident microbes and leaves a long lasting residual film to prevent recontamination lasting three to five hours, depending on the quantity of HiCare Triclogel use (ONLY 3 ml for routine examinations, 6 ml for invasive procedures and 9 ml for surgical preparations), provided no contaminated materials are handled in the intervening period.

How safe is HiCare Triclogel ?

Constant or repeated washing with soaps and chemical scrubs causes dryness of hands, leading to wrinkling by frequent wetness, cracking of skin and quicker recontamination and even allergies. HiCare Triclogel leaves the hands clean, soft, supple and well nourished all day long due to Vitamin E, *Aloe vera*, other emollients and softeners. HiCare Triclogel is totally nonpoisonous and harmless, regardless of prolonged use, since it contains no toxic or harmful chemicals. Hands having cleaned by HiCare Triclogel are ready for touching food or even infants.

Salient features

- Kills Germs
- Gently Moisturises
- Easy to use
- No Spills

Directions for use

- Hand Disinfection (3 ml)
- Skin Disinfection (6 ml)
- Surgical Hand Disinfection (9 ml)

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



CO004

HiCare Triclogel		
Code	Product	Packing
CO002 - 1x20 NO	Triclogel	1x20 no
CO002 - 1x50 NO	in 50 ml bottle	1x50 no
CO002 - 1X100 NO		1x100 no
CO003 - 1x20 NO	Triclogel	1x20 no
CO003 - 1x50 NO	in 100 ml bottle	1x50 no
CO004 - 1x2 NO	Triclogel Dispenser Bottle w/ pump	1x2 no
CO004 - 1x5 NO	in 500 ml bottle	1x5 no
CO004 - 1x10 NO		1x10 no
CO004 - 1x20 NO		1x20 no
CO088 - 1X5 NO	Triclogel w/o perfume w/pump	1x5 no
CO088 - 1x10 NO	in 500 ml	1x20 no
CO005 - 1x10 NO	Triclogel Refill Pack w/o pump	1x10 no
CO005 - 1X20 NO	in 500 ml bottle	1x20 no
CO006 - 1 NO	S S Metal Dispenser Wall Bracket	1 no
CO006 - 1X2 NO		1x2 no
CO007 - 1X10 NO	Gel Dispenser Pump	1x10 no
CO155 - 1 NO	in 5 lit. can	1 no

Zentol

Liquid hand rub that's gentle to your hands

What is Zentol ?

Zentol is an Instant hand disinfectant rub, widely appreciated for use due to its prolonged disinfectant effect for about 5 - 6 hours. It is a dark pink coloured liquid pleasantly perfumed.

What does Zentol contain ?

Active ingredients: Chlorexidene gluconate (20%) IP: 2.5 w/v Ethyl alcohol 70% (v/v)

Other ingredients : Isopropyl Alcohol, Propylene glycol, Glycerine, Perfume, Colour.

How effective is Zentol ?

Zentol is an effective instant hand rub. It leaves the hands sterilized for more than 5-6 hours. It kills 99.99% of all microbes viz gram-positive and gram negative bacteria, fungi, viruses including HIV and HBV within 15 seconds.

How does Zentol act ?

Chlorexidene 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 chlorexidene gluconate and alcohol enhances the efficacy of lethal effect. It can be used as a surgical scrub to reduce the number of microorganisms on hands and forearms prior to surgical procedures.

How safe is Zentol ?

Use of soaps and chemical scrubs causes dryness of hands, cracking of skin, wrinkling by frequent wetness. Incorporation of aloe vera, moisturizer leaves the hands clean, soft, supple and well nourished. The concentration of chlorexidene gluconate and ethanol used in formulation is non toxic and is non allergic.

Directions for use

- For hand Disinfection use undiluted. Dispense one shot (3 ml), rub well over clean dry hands, finger nails and grooves for 30 seconds
- For Skin Disinfection : Dispense two shot (6 ml), rub well over clean dry hands.
- For surgical hand disinfection : Dispense Three shots (9 ml), rub well over clean dry hands, finger nails and grooves upto elbow. Rub vigorously untill dry

Salient features

- Kills Germs
- Gently Moisturises
- Easy to use
- Non irritant to skin
- Pleasant odour
- Effective for 5 - 6 hours

References :



CO025

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

Zentol		
Code	Product	Packing
CO025 - 1x50 NO	Zentol with Flip top cap in 100 ml bottle	1x50 no
CO026 - 1x20 NO	Zentol Dispenser Bottle w/ pump in 500 ml bottle	1x20 no
CO027 - 1x50 NO	Zentol Refill Pack w/o pump in 500 ml Bottle	1x20 no
CO169 - 1x50 NO	Zentol (without fragrance, 5 liters)	1x50 no

HiShield™ Handguard

Skin Antiseptic for the hands that care

What is HiShield™ Handguard ?

HiShield™ Handguard is skin friendly, hygienic RUB IN HAND skin antiseptic lotion with Vitamin E and *Aloe vera*.

What does HiShield™ Handguard contain ?

Active ingredients : Chlorhexidine Gluconate I.P. (20%) : (5%) w/v

Other ingredients : Propylene glycol, Glycerine, Polymeric thickner, Dimethicone, Tocopheryl Acetate, Aloe Barbadosis Juice, Methyl Isothiozoline, Phenoxy Ethanol, Perfume.

How effective is HiShield™ Handguard ?

HiShield™ Handguard kills 99.99% germs giving extra high cleansing of visible dirt. It has good residual property and leaves the hands sterilized for more than 5 hours.

How safe is HiShield™ Handguard ?

Soap agents are often harsh, potentially irritating that leave a residue which can dry the skin. On the other hand even on extensive use of HiShield™ Handguard, the skin remains smooth and well nourished due to *Aloe vera*, other emollients and softeners. It is non-allergic and safe to all persons with sensitive skin.

Salient features

- Kills Germs
- Gently Moisturises
- Easy to use
- No Spills

Directions for use

- Hand Disinfection (3 ml)
- Skin Disinfection (6 ml)
- Surgical Hand Disinfection (9 ml)

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



C0011

HiShield™ Handguard

Code	Product	Packing
C0011 - 1x5 NO	HiShield™ Handguard Dispenser Bottle w/	1x5 no
C0011 - 1X20 NO	pump in 500 ml Pack	1x20 no
C0013 - 1x50 NO	HiShield™ Handguard with flip top bottle in 100 ml pack	1x50 no

HiShield™ Hand Gel

Instant hand Disinfectant Gel

What is HiShield™ Hand gel ?

HiShield™ Hand gel is an effective gel that disinfect hands instantly without using water, soap or towel.

What does HiShield™ Hand gel contain ?

Active ingredients : Ethanol 75% v/v and Triclosan 0.3% w/v

Other ingredients : Isopropyl Alcohol, Propylene glycol, Tocopheryl Acetate, Isopropyl Myristate, Glycerine, Aloe Barbadensis Juice, Alkyl Acrylate, Alkyl Amine, Perfume.

How does HiShield™ Hand gel act ?

The active ingredients; Ethanol acts by denaturing the microbial proteins while Triclosan acts by breaking the microbial cell walls. The vigorous rubbing action of hands till it is absorbed ensures complete bactericidal action.

How effective is HiShield™ Hand gel ?

Ethanol destroys 99.99% of all microbes viz., gram-positive and gram-negative bacteria, bacilli, fungi and viruses within 30 seconds. Triclosan gets adsorbed onto the skin, destroys the resident microbes and leaves a long lasting residual film to prevent recontamination lasting three to five hours provided no contaminated materials are handled in the intervening period, depending on the quantity of use.

How safe is HiShield™ Hand gel ?

Constant or repeated washing with soaps and chemical scrubs causes dryness of hands, leading to wrinkling by frequent wetness, cracking of skin and quicker recontamination and even allergies. However HiShield™ Hand gel leaves the hands clean, soft, supple and well nourished all day long due to Vitamin E, Aloe Vera, other emollients and softeners & is totally nonpoisonous and harmless, regardless of prolonged use, since it contains no toxic or harmful chemicals.

Directions for use

For Hygienic Hand disinfection: Rub HiShield™ Hand gel (two pushes of Calibrated dispenser pump (3ml) on the clean dry hands, nails and grooves for 30 secs.

For Surgical Hand disinfection: Rub HiShield™ Hand gel (6 pushes) of dispenser pump (9ml) over the clean dry hand, nails, and grooves up to elbow. Rub vigorously for 3 minute.

Salient features

- Eco-friendly formulation
- No soap, water or towel needed
- Leaves no harmful residue
- Leaves hand soft



CO137

References :

1. Sean C Sweetman (editor) 2011 Martindale-The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

HiShield™ Hand Gel		
Code	Product	Packing
CO137-1X20NO	HiShield™ Hand Gel	1X20NO
CO137-1X50NO	In 100 ml Bottle	1X50NO
CO138-1X10NO	HiShield™ Hand Gel	1X10NO
CO138-1X20NO	In 500 ml dispenser Bottle w/ pump	1X20NO
CO139-1X10NO	HiShield™ Hand Gel	1X10NO
CO139-1X20NO	In 500 ml dispenser Bottle w/o pump (Refill pack)	1X20NO

SteriFast™

Reliable and gentle hand disinfectant

What is SteriFast™ ?

SteriFast™ is a reliable and gentle hand disinfectant with a very good residual and persistent effect.

What does SteriFast™ contain ?

Active ingredients : Isopropyl Alcohol, IP-45gm

Other ingredients : N-propanol, Mecetronium Ethylsulphate, Propylene glycol, Glycerine, Perfume, Colour

How does SteriFast™ act ?

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.

How effective is SteriFast™ ?

Even at a very low concentration SteriFast™ ensures a rapid and reliable reduction in the bacterial count, with a dependable kill of the microorganisms making it an effective hand disinfectant.

How safe is SteriFast™ ?

SteriFast™ is a very gentle yet a reliable disinfectant with exceptionally good skin tolerability even with long term use. It provides excellent skin protection and skin care properties.

Directions for use

For Hygienic Hand disinfection: Rub SteriFast™ (two pushes of Calibrated dispenser pump i.e.3ml) on the clean dry hands, nails and grooves for 30 secs.

For Surgical Hand disinfection: Rub SteriFast™ (6 pushes i.e.9ml of the dispenser pump) over the clean dry hand, nails, grooves up to elbow. Rub vigorously for 3 minutes.

Salient features

- Reliable & Gentle
- Excellent skin protection
- Effective for several hours
- Hand disinfection without water

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



SteriFast™		
Code	Product	Packing
CO129-1X10NO	SteriFast™	1X20NO
CO129-1X20NO	In 500 ml dispenser Bottle w/ pump	1X10NO
CO130-1X10NO	SteriFast™	1X20NO
CO130-1X20NO	In 500 ml dispenser Bottle w/o pump (Refill pack)	1X10NO

SteriFast™ Plus

Reliable and gentle hand disinfectant with antimicrobial activity

What is SteriFast™ Plus ?

SteriFast™ Plus is a reliable and gentle hand disinfectant with a very good residual and persistent effect on reduction of the transient flora.

What does SteriFast™ Plus contain ?

Active ingredients : Isopropyl Alcohol I.P.:50.0%V/V, Chlorhexidine Gluconate (20%) I.P.:2.5 %W/V

Other ingredients : .N,Propanol , Triclosan, Propylene Glycol, Glycerine, PEG, Perfume, colour.

How does SteriFast™ Plus act ?

SteriFast™ Plus 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.

How effective is SteriFast™ Plus ?

Even at a very low concentration SteriFast™ Plus ensures a rapid and reliable reduction in the bacterial count, with a consistent kill of the microorganisms making it an effective hand disinfectant.

How safe is SteriFast™ Plus ?

SteriFast™ Plus is a very gentle yet a reliable disinfectant with exceptionally good skin tolerability even with long term use. It provides excellent skin protection and skin care properties.

Directions for use

For Hygienic Hand disinfection: Rub SteriFast™ Plus (two pushes of Calibrated dispenser pump i.e.3ml) on the clean dry hands, nails and grooves for 30 secs.

For Surgical Hand disinfection: Rub SteriFast™ Plus (6 pushes i.e.9ml of the dispenser pump) over the clean dry hand, nails, grooves up to elbow. Rub vigorously for 3 minutes.

Salient features

- Reliable & Gentle
- Effective for several hours
- Excellent skin protection
- Hand disinfection without water

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



CO131



CO157

SteriFast™ Plus		
Code	Product	Packing
CO131-1X10NO	SteriFast™ Plus	1X10NO
CO131-1X20NO	In 500 ml dispenser Bottle w/ pump	1X20NO
CO132-1X10NO	SteriFast™ Plus	1X10NO
CO132-1X20NO	In 500 ml dispenser Bottle w/o pump (Refill pack)	1X20NO
CO157-1NO	SS Metal Dispenser Wall Bracket	1NO
CO157-1x2NO	For SteriFast™ & SteriFast™ Plus	1x2NO

HiShield™ Moisturising Lotion

Non alcoholic skin Disinfectant and Antiseptic gel

What is HiShield™ Moisturising lotion ?

HiShield™ Moisturising lotion is a non alcoholic skin disinfectant and antiseptic gel for sustained antimicrobial action for a prolonged period.

What does HiShield™ Moisturising lotion contain ?

Active ingredients : Chlorhexidine Gluconate(20%) I.P.: 5 % W/V

Other ingredients : IPA, Dimethicone, Propylene Glycol, Glycerin, Polymeric thickener, Tocopheryl Acetate, Aloe barbedensis Juice , PEG- 75 Lanolin, Phenoxy Ethanol, Perfume.

How does HiShield™ Moisturising lotion act ?

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.

How effective is HiShield™ Moisturising lotion ?

Antimicrobial property lasts for more than 8 hours of application

How safe is HiShield™ Moisturising lotion ?

The presence of Vitamin E and Aloe Vera in the lotion helps in nourishment of skin making the product safe for sensitive skin.

Directions for use

For Hygienic Hand disinfection: Rub HiShield™ Moisturising lotion (6 pushes of Calibrated dispenser pump: 10ml) on the exposed part of the Hand and feet for 2 minutes.

Salient features

- Eco friendly
- Non alcoholic
- Lasts for more than eight hours
- Safe for sensitive skin

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



CO133

HiShield™ Moisturising Lotion

Code	Product	Packing
CO133-1X5NO	HiShield™ Moisturising lotion	1X5NO
CO133-1X20NO	In 500 ml dispenser Bottle w/ pump	1X20NO

HiShield™-T

Antimicrobial skin Cleanser

(Hand & Body wash)

What is HiShield™ - T ?

HiShield™-T is a skin cleanser which has an effective antimicrobial activity and is recommended for antimicrobial hand washing for healthcare personnel especially those with sensitive and damaged skin.

What does HiShield™ - T contain ?

Active ingredients : Cetrimide IP : 0.1% W/V

Other Ingredients : Phenoxy Ethanol, Sodium Lauryl Sulphate, Propylene Glycol, Triclosan, Glycerine, lauryldiethanolamide, Coco diethanol amide, Coco amido propyle betaine, Sodium Chloride Perfume & Permitted colour.

How does HiShield™ - T act ?

The active ingredient, Triclosan, acts by breaking the microbial cell walls. Further it gets adsorbed onto the skin, destroys the resident microbes and leaves a long lasting residual film to prevent recontamination.

How effective is HiShield™ - T ?

HiShield™-T provides Immediate and residual protection against microorganisms and also has an effective antimicrobial activity against most microbes.

How safe is HiShield™ - T ?

HiShield™ - T leaves the hands clean, soft, and unharmed even on prolonged use due the presence of emollients and softeners in its formulations & is thus safe to use even by personnel with sensitive and damaged skin.

Directions for use

Disperse the liquid on the wet hand. Work up a rich lather. Rub the hands for 1 minute and rinse off.

Salient features

- Eco friendly
- Cleans and moisturizes
- Lathers smoothly
- Leaves the hands clean, soft and unharmed

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



HiShield™ T		
Code	Product	Packing
CO140-1X10NO	HiShield™ -T	1X10NO
CO140-1X20NO	In 500 ml dispenser Bottle w/ pump	1X20NO
CO141-1X10NO	HiShield™-T	1X10NO
CO141-1X20NO	In 500 ml dispenser Bottle w/o pump (Refill pack)	1X20NO

HiShield™ -2

Antimicrobial Hand & Body Wash

What is HiShield™ -2 ?

HiShield™-2 is an antiseptic wash lotion with replenishing properties and a broad spectrum of antiseptic effect. It is an excellent product for procedural hand washing prior to invasive and aseptic technique.

What does HiShield™ -2 contain ?

Active ingredients : Chlorhexidine Gluconate (20%)
I.P.:10% W/V

Other Ingredients : CAPB, propylene glycol, Ethoxylated Nonyl Phenol, Polymeric thickener, Isopropyl Alcohol Laurylamine oxide, Lauryl diethanol amide, glycerine and perfume.

How does HiShield™ -2 act ?

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.

How effective is HiShield™ -2 ?

HiShield™-2, a Chlorhexidine containing cleanser is effective against most gram positive & gram negative bacteria and fungus.

How safe is HiShield™ -2 ?

The moisturizers and the other ingredients are specially selected for their mildness to skin and their compatibility with the active ingredient Chlorhexidine Gluconate thus making the product safe for hand and body wash pre and post operative procedures.

Directions for use

Disperse the liquid on the wet hand. Work up a rich lather. Rub the hands for 1 minute and rinse off.

Salient features

- Eco-friendly formulation
- Cleans and moisturizes
- Lathers Smoothly
- Totally safe for hand & body wash

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



CO115

HiShield™-2		
Code	Product	Packing
CO115-1X10NO	HiShield™ -2	1X10NO
CO115-1X20NO	In 500 ml dispenser Bottle w/ pump	1X20NO
CO116-1X10NO	HiShield™ -2	1X10NO
CO116-1X20NO	In 500 ml dispenser Bottle w/o pump (Refill pack)	1X20NO

HiShield™ Hand Wash

Non-alcoholic Antimicrobial Hand & Body Wash

What is HiShield™ Hand Wash ?

HiShield™ Hand wash is a broad spectrum antimicrobial hand wash effective against all types of microbes.

What does HiShield™ Hand Wash contain ?

Active ingredients : Benzalkonium Chloride I.P.: 0.1 % W/V

Other ingredients: Triclosan, Chloromethyl Isothiazolinone & Methyl Isothiazolinone, Phenoxy Ethanol, SLES, CAPB, Perfume, Thickeners & Permitted colour.

How does HiShield™ Hand Wash act ?

The active ingredient Benzalkonium Chloride has bactericidal and fungicidal activity destroying fungal spores. It also inactivates certain viruses. The compound basically disrupts the plasma membrane of living cell to which cellular contact is lost. It interferes with the cell's physiological activity leading to its destruction.

How effective is HiShield™ Hand Wash?

HiShield™ Hand wash is an antiseptic wash lotion with an effective broad spectrum antimicrobial activity.

How safe is HiShield™ Hand Wash ?

The presence of emollients and moisturizers makes HiShield™ Hand Wash a safe product that is effective but at the same time not harsh on skin leaving the skin unharmed even after prolonged use.

Directions for use

Disperse the liquid on the wet hand.

For Instant Hand disinfection:

Disperse 3 ml. HiShield hand wash on palm to wet hand and fingernails. Rub briskly over all surfaces for 1 minutes and wash hands with sterile water.

For Skin Antisepsis : 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

For Surgical Hand Disinfection : Disperse 9 ml. gels 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.

Salient features

- Non-Alcoholic
- Cleans and moisturizes
- Lathers Smoothly



References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

HiShield™ Hand Wash		
Code	Product	Packing
CO136-1X10NO	HiShield™ Hand Wash	1X10NO
CO136-1X20NO	In 100 ml Bottle	1X20NO
CO148-1X10NO	HiShield™ Hand Wash	1X10NO
CO148-1X20NO	In 500 ml Bottle	1X20NO
CO149-1X5NO	HiShield™ Hand Wash	1X5NO
	In 1 liter Can pack	

HiShield Non Alcoholic (NAHS) hand Sanitizer

Antiseptic Gel with a broad spectrum of antiseptic effect

What is HiShield Non Alcoholic (NAHS) hand Sanitizer?

HiShield Non Alcoholic (NAHS) hand Sanitizer is a alcohol free hand disinfection which can be carried out independently of a wash basin and water .

What does HiShield Non Alcoholic (NAHS) hand Sanitizer contain?

Active Ingredients: Benzethonium Chloride USP- 0.2% W/V

Other ingredients : Isopropyl Alcohol, Propylene glycol, Tocopheryl Acetate, Isopropyl Myristate, Glycerine, Perfume.

How does HiShield Non Alcoholic (NAHS) hand Sanitizer act?

Active ingredient Benzethonium Chloride adsorb onto the negatively charged cell wall of microorganisms, interrupt normal cell metabolism, and lead to cell death or growth inhibition.

How effective is HiShield Non Alcoholic (NAHS) hand Sanitizer?

Even at a very low concentration HiShield Non Alcoholic (NAHS) hand Sanitizer ensures a rapid and reliable reduction in the bacterial count, with a consistent kill of the microorganisms making it an effective hand disinfectant.

How safe is HiShield Non Alcoholic (NAHS) hand Sanitizer?

HiShield Non Alcoholic (NAHS) hand Sanitizer leaves the hands clean, soft, and unharmed even on prolonged use due the presence of emollients and softeners in its formulations & is thus safe to use even by personnel with sensitive and damaged skin.

Directions for use

Use undiluted. For Instant Hygienic hand disinfection: Rub HiShield Non Alcoholic (NAHS) hand Sanitizer (two pushes of Calibrated dispenser pump (3ml) on the clean dry hands, nails and grooves for 30 secs.

Salient features

- Eco friendly
- Cleans and moisturizes
- Lathers smoothly
- Leaves the hands clean, soft and unharmed



References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

HiShield Non Alcoholic		
Code	Product	Packing
CO186-100ml	HiShield Non Alcoholic Hand sanitizer	100ML
CO187-500ml		500ML

HiShield™ - 4

Surgical Hand & Body Wash

What is HiShield™- 4 ?

HiShield™- 4 is an antiseptic wash lotion with a broad spectrum bactericidal (incl. MRSA/ORSA) and Fungicidal activity.

What does HiShield™-4 contain ?

Active ingredients : Chlorhexidine Gluconate (20%) IP - 20% W/V (equivalent to 4% Chlorhexidine Gluconate)

Other Ingredients : Coco di ethanol amide, Lauryldiethanolamide, Glycerine Polymeric Thickener & Perfume .

How does HiShield™- 4 act ?

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.

How effective is HiShield™- 4 ?

HiShield™- 4 is an antiseptic wash lotion with a broad spectrum of antiseptic effect. The preparation is suitable for MRSA eradication as it provides comprehensive effect against various MRSA strains.

How safe is HiShield™- 4?

Through selected ingredients and alcohol free formulation the wash lotion possesses a considerably better skin compatibility.

Directions for use

Surgical hand scrub: wet hand & forearm with water, scrub for 2-3 minutes with about 5 ml of product. paying close attention to the Nails, and interdigital spaces. Rinse thoroughly, wash for an additional 3 minutes with 5 ml product and rinse under running water, dry thoroughly

Health care personnel Hand Wash: 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.

Patient preoperative skin preparation: Apply the product liberally to surgical site and swab for at least 2 minutes and dry with a sterile towel Repeat procedure for additional 2 minutes and dry with a sterile towel

Skin wound and general skin cleansing: Thoroughly rinse the area to be cleaned with water about minimum amount of product to cover skin or wound area and wash gently. Rinse again thoroughly.

Salient features

- Broad spectrum bactericidal & fungicidal activity
- Alcohol free formulation
- Better skin compatibility



References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

HiShield™-4		
Code	Product	Packing
CO127-1X10NO	HiShield™ -4	1X10NO
CO127-1X20NO	In 500 ml dispenser Bottle w/ pump	1X20NO
CO128-1X10NO	HiShield™ -4	1X10NO
CO128-1X20NO	In 500 ml dispenser Bottle w/o pump (Refill pack)	1X20NO

HiShield™ Spray

Skin Antisepsis

What is HiShield™ Spray ?

HiShield™ Spray is a ready-to-use preparation that can be used for the preoperative skin antisepsis as well as before blood sampling and injections.

What does HiShield™ Spray contain ?

Active ingredients : Isopropyl Alcohol I.P. – 72% V/V, Benzalkonium chloride I.P.- 0.025% W/V, Purified DM water to make- 100% V/V.

How does HiShield™ Spray act ?

The aim of skin antisepsis is to reduce the entire flora as far as possible. Hence for skin antisepsis, alcohol based preparations like HiShield™ Spray are used. HiShield™ Spray can be sprayed directly on the skin to be disinfected. During spraying, keep distance between nozzle and target as short as possible in order to avoid spray shadows and ensure satisfactory moistening. At the same time, less amount of the product gets into the air. Alternatively, the preparation can be sprayed on a sterile swab. Afterwards, the skin area to be disinfected is rubbed with the swab. Pay attention to a thorough wetting of the skin.

HiShield™ Spray on application reduces the initial microbial flora substantially. The skin flora then requires a longer time for achieving its baseline count; this is termed as the long term effect. Thus, HiShield™ Spray acts by first targeting the resident skin flora and then providing a long term effect to maintain a persistent antimicrobial activity.

How effective is HiShield™ Spray ?

HiShield™ Spray prevents a fast proliferation of the resident flora and offers an optimal patient protection.

How safe is HiShield™ Spray?

HiShield™ Spray provides a good long term effect and excellent skin compatibility making it safe for use for skin antisepsis.

Salient features

- Eco friendly
- Excellent skin compatibility
- Good long term effect
- Persistent antimicrobial activity

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



CO117

HiShield™ Spray		
Code	Product	Packing
CO151-1X20NO	HiShield™ Spray	1X20NO
CO151-1X50NO	In 100 ml bottle	1X50NO
CO117-1X10NO	HiShield™ - Spray	1X10NO
CO117-1X20NO	In 500 ml dispenser Bottle w/ pump	1X20NO
CO118-1X10NO	HiShield™ - Spray	1X10NO
CO118-1X20NO	In 500 ml dispenser Bottle w/o pump (Refill pack)	1X20NO

HiShield™ - PVP Scrub

Surgical scrub and Topical Microbicide

What is HiShield™ PVP Scrub ?

HiShield™ PVP Scrub is a surgical scrub and also a topical Microbicide.

What does HiShield™ PVP Scrub contain ?

Active ingredients : Povidone-Iodine IP: 7.5% W/V (0.75% W/V available iodine)

Others ingredients: Coco di Ethanol amide, Lauryldiethanol Amide, Glycerine.

How does HiShield™ PVP Scrub act ?

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.

How effective is HiShield™ PVP Scrub?

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.

How safe is HiShield™ PVP Scrub ?

HiShield™ PVP Scrub doesn't have any ill-effects on the skin however usage should be avoided in case of known iodine sensitivity.

Directions for use

Surgical Hand washes : Wet hand with water. Spread about 5cc over both hand and forearms. Scrub thoroughly for 3 minutes. Add little water and develop copious suds. Rinse thoroughly under running water. Repeat the entire procedure using another 5cc of scrub.

Antiseptic hand wash: 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.

Patient preoperative skin preparation: 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 solution and allowed to dry.

Salient features

- Eco-friendly formulation
- Surgical Scrub



References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

HiShield™ PVP Scrub		
Code	Product	Packing
CO142-1X10NO	HiShield™ PVP Scrub	1X10NO
CO142-1X20NO	In 500 ml dispenser Bottle w/ pump	1X20NO
CO143-1X10NO	HiShield™ PVP Scrub	1X10NO
CO143-1X20NO	In 500 ml dispenser Bottle w/o pump (Refill pack)	1X20NO

HiShield™ - 5

Surgical skin Preparation Gel

What is HiShield™- 5 ?

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

What does HiShield™-5 contain ?

Active ingredients : Chlorhexidine Gluconate I.P.- 25% W/V

Others ingredients : Coco di ethanol amide, Lauryldiethanolamide, glycerine, Polymeric Thickener and Perfume.

How does HiShield™- 5 act ?

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 Immediate, cumulative and residual protection against microorganisms.

How effective is HiShield™- 5 ?

HiShield™- 5 is an antiseptic wash lotion with an effective broad spectrum antimicrobial activity.

How safe is HiShield™- 5 ?

Through selected ingredients and alcohol free formulation HiShield™-5 can be safely used for pre-operative body washing or showering of patients prior to surgical procedures.

Directions for use

Use undiluted surgical hand scrub : Wet hand & forearm with water scrub for 3 minutes with about 5 ml of product, paying close attention to the nails and inter digital spaces. Rinse thoroughly. Wash for an additional 3 minutes with 5 ml product and rinse under running water, dry thoroughly.

Patient preoperative skin preparation: Apply the product liberally to surgical site and swab for at least 2 minutes. Dry with a sterile towel. Repeat procedure for additional 2 minutes and dry with a sterile towel.

Salient features

- Eco friendly
- Broad Spectrum activity
- Gentle Cleansing
- Skin caring formulation

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



HiShield™ -5		
Code	Product	Packing
C0134-1X10NO	HiShield™ -5	1X20NO
C0134-1X20NO	In 500 ml dispenser Bottle w/ pump	1X10NO
C0135-1X10NO	HiShield™ -5	1X20NO
C0135-1X20NO	In 500 ml dispenser Bottle w/o pump (Refill pack)	1X10NO

HiShield™ - PVP Solution

Topical Microbicide

What is HiShield™ PVP Solution ?

HiShield™ PVP Solution is a fast acting, broad spectrum topical Microbicide.

What does HiShield™ PVP Solution contain ?

Active ingredients : Povidone-Iodine IP: 10% W/V (1 % W/V available iodine)

Others ingredients : Glycerine and Buffer

How does HiShield™ PVP Solution act ?

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.

How effective is HiShield™ PVP Solution ?

HiShield™ PVP 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.

How safe is HiShield™ PVP Solution ?

HiShield™ PVP Solution doesn't have any ill-effects on the skin. Also it is nonstinging and non-irritating to skin, wounds and mucous membrane. It is nonstaining to skin and natural fabrics. However usage should be avoided in case of known iodine sensitivity.

Directions for use

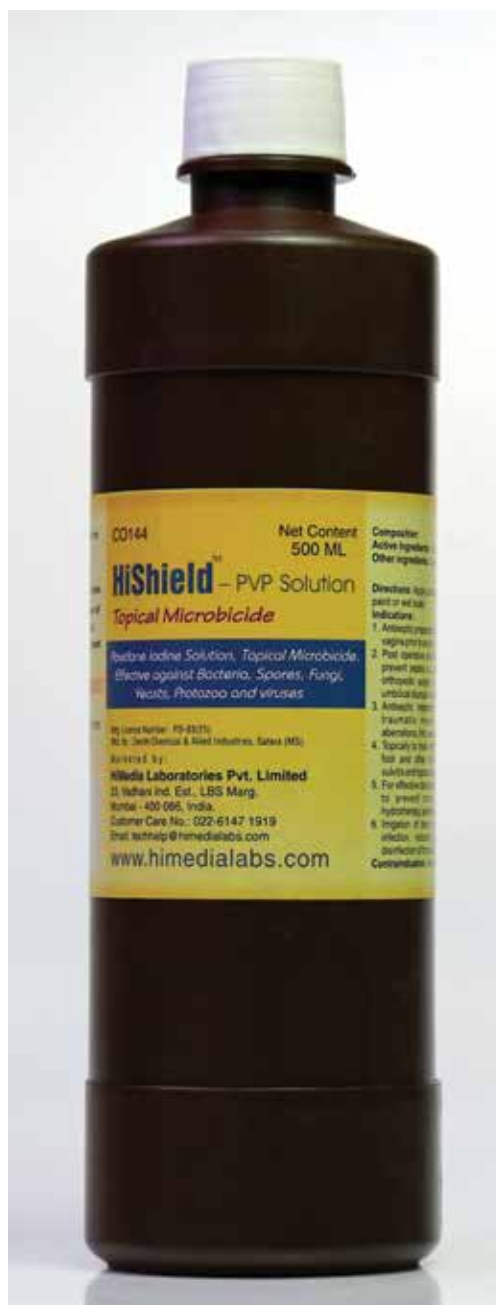
Apply undiluted as often as needed as paint or wet soak.

Salient features

- Eco-friendly
- Topical Microbicide

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



HiShield™ PVP Solution		
Code	Product	Packing
CO144-1X10NO	HiShield™ PVP Solution	1X10NO
CO144-1X20NO	In 500 ml Bottle	1X20NO
CO145-1X5NO	HiShield™ PVP Solution	1X5NO
	In 1 lit Can Pack	
CO146-1X2NO	HiShield™ PVP Solution	1X2NO
	In 5 lit Can Pack	

HiShield™ PVP solution

Topical Microbicide

What is HiShield™ 5 % PVP Solution ?

HiShield™ PVP 5% Solution is a fast acting, broad spectrum topical Microbicide.

What does HiShield™ 5 % PVP Solution contain ?

Active ingredients : Povidone-Iodine IP: 5% W/V (0.5 % W/V available iodine)

Others ingredients : Glycerine and Buffer

How does HiShield™ PVP 5% Solution act ?

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.

How effective is HiShield™ 5 % PVP Solution ?

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.

How safe is HiShield™ 5 % PVP Solution ?

HiShield™ PVP 5% Solution doesn't have any ill-effects on the skin. Also it is nonstinging and non-irritating to skin, wounds and mucous membrane. It is nonstaining to skin and natural fabrics. However usage should be avoided in case of known iodine sensitivity.

Directions for use

Apply undiluted as often as needed as paint or wet soak.

Salient features

- Eco-friendly
- Topical Microbicide
- Spray desired area
- Allow to dry

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



HiShield PVP solution		
Code	Product	Packing
CO 188-100ml	HiShield PVP solution	100ML
CO 189-500ml		500ML
CO 190-500ml refill		500ML

AlkaSept

Medical Instrument Sterilizer

What is AlkaSept ?

AlkaSept is a residue-free, exceptionally material-compatible disinfectant for chemo-thermal reprocessing of endoscopes. The product achieves a high microorganism reduction and offers staff and patients an effective protection against infection.

What does AlkaSept contain ?

Active ingredients : Glutaraldehyde (USP) 2.45 % W/V,

Others ingredients : Activator

How does AlkaSept act ?

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.

How effective is AlkaSept ?

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.

How safe is AlkaSept ?

AlkaSept has excellent material compatibility with heat-resistant and heatsensitive instruments, it is suitable for all common manual and semi-automatic circulation procedures as well as for the fully automatic (cold disinfection) procedure. It is also used in ultrasonic baths. It is also suitable for the reprocessing of instruments made of rubber, plastic, metal, porcelain and glass.

Directions for use

Activation: Activate the solution by adding the entire content of activator vial to the AlkaSept solution. Shake well. When activated the solution changes colour to green. Use the solution as such only as the solution is supplied as a concentrate and it has to be used in concentrated form only.
Reuse Period: Activated AlkaSept Solution can be reused for maximum of 14 days.

Salient features

- Excellent material compatibility
- Ideal for cold disinfection
- High Microorganism reduction
- Residue Free



CO152

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

AlkaSept		
Code	Product	Packing
CO152-1X5NO	AlkaSept In 1 lit Can Pack	1X5NO
CO102-1X2NO	AlkaSept In 5 lit Can Pack	1X2NO

AlkaSept Plus

Medical Instrument Sterilizer

What is AlkaSept Plus ?

AlkaSept Plus is a formaldehyde-free surface disinfectant-cleaner recommended for the disinfectant cleaning of medical equipment in hospitals and residential/nursing home.

What does AlkaSept Plus contain ?

Active ingredients : Benzalkonium chloride IP 6.0% W/V, Glutaraldehyde 10.0% W/V, Didecylidimethylammonium chloride 6.0% W/V

Others ingredients : Isopropyl Alcohol, Perfume.

How does AlkaSept Plus act ?

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 & Didecylidimethylammonium chloride are also known quaternary ammonium compounds which inhibit the growth of pathogenic microorganisms.

How effective is AlkaSept Plus ?

AlkaSept Plus is supplied in form of concentrate. On applying appropriate dilution, there is a significant reduction in microbial load on the site of application. However contact between aldehyde-based & amine-based products must be avoided. Hence if amine-based products are previously used an intermediate cleaning must be carried out before using AlkaSept Plus.

How safe is AlkaSept Plus ?

AlkaSept Plus is an aldehyde-free instrument disinfectant that combines excellent cleaning power with a broad spectrum of effect and a high degree of material compatibility. The material compatibility of the instrument disinfectant extends to a wide range of materials like metals, various types of plastics, rubber, acrylic glass etc. making it suitable for damage free wipe disinfection.

Directions for use

Surface Disinfection- 4 ml in 1 liter water (for pre cleaned Surface) & 50 ml per liter (for critical areas)

Instrument Disinfection: 50ml to 100ml in 1 liter water

Salient features

- Sterilization of Surgical equipments
- Formaldehyde Free
- For disinfecting critical areas
- Low usage concentration



CO103

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

AlkaSept Plus		
Code	Product	Packing
CO103-1X10NO	AlkaSept Plus	1X10NO
CO103-1X20NO	In 500 ml Bottle	1X20NO
CO104-1X5NO	AlkaSept Plus	1X5NO
	In 1 lit Can Pack	
CO105-1X2NO	AlkaSept Plus	1X2NO
	In 5 lit Can Pack	

AlkaSept OPA

Medical Instrument Sterilizer

What is AlkaSept OPA ?

AlkaSept OPA is a High Level Disinfectant (HLD) for use in re-processing heat sensitive medical devices/medical equipment in hospitals and residential/nursing home.

What does AlkaSept OPA contain ?

Active ingredients : Ortho-Phthalaldehyde (OPA) : 0.55% w/v

How does AlkaSept OPA act ?

It provides rapid High Level Disinfection in 12 minutes at room temperature for manual processing. • Bactericidal, fungicidal, tuberculocidal, virucidal. Sporicidal • Active against mycobacteria, including glutaraldehyde-resistant strains of M. Chelonae.

Ready to use Solution • Requires no activation • Odor free. • Compatible with metal, plastic, elastomers and adhesives commonly used in the construction of reprocessable medical devices. No activation required.

Directions for use

OPA solution once opened can be used for up to 75 days. Immerse device completely, filling all lumens and eliminating airpockets, in AlkaSept OPA Solution for a minimum of 12 minutes at 20°C or higher to destroy all pathogenic microorganisms. Automatic endoscope reprocessor that can be set to a minimum of 25°C with a minimum immersion time of 5 min. following removal from AlkaSept OPA solution. Thoroughly rinse the medical device by immersing it completely in a large volume of water. Use sterile water.

Salient features

- Sterilization of Surgical equipments
- Formaldehyde Free
- For disinfecting critical areas
- Low usage concentration

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



AlkaSept OPA		
Code	Product	Packing
CO161-1NO	AlkaSept OPA	1NO
CO161-1X3NO	In 1liter Can Pack	1X3NO
CO162-1NO	AlkaSept OPA	1X5NO
	In 5 lit Can Pack	
K116-1KT	AlkaSept OPA Solution Test Strips For potency Testing of AlkaSept™ OPA (CO161 & CO162) 50 strips per Kit	1Kit

SteRapid™

Sterilize your instruments in 30 seconds

What is SteRapid™ ?

SteRapid™ is a clear transparent watery light blue liquid used for rapid disinfection of medical devices, equipments, surgical equipments, instruments and other critical parts.

What does SteRapid™ contain ?

Active ingredients : Isopropyl Alcohol IP 35.0% W/V, Benzalkonium chloride (50%) IP 0.2% W/V, Didecyldimethylammonium chloride 0.5% W/V, Poly Hexamethylene methyl Biguanide hydrochloride 0.5% W/V.

How does SteRapid™ act ?

After spraying SteRapid™, the liquid dries quickly leaving active antimicrobial ingredient on the surface which form protective layer on the surface. PHMB has antimicrobial (gram-negative and gram-positive) and antiamebic activity. BKC has bactericidal and fungicidal activity destroying fungal spores. It also inactivates viruses for eg. MIV & HIV. These compounds basically disrupt the plasma membrane of living cell to which cellular contact is lost. Highly effective rust inhibitor protects the costly devices from corrosion.

How effective is SteRapid™ ?

On spraying, instantly the undesirable microbial load is reduced by 99.99% within 30 seconds. It is active against bacteria, fungi, amoebas, spores, TB, HIV & rota viruses.

Salient features

- Easy to handle
- Lethal to microbes, sperms, amoebas
- Direct spray
- For medical devices and equipments
- Instant disinfection
- For surgical equipments
- Prevents rust
- Totally non corrosive & non toxic

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



SteRapid™		
Code	Product	Packing
CO028 - 1x5 NO	CO028 - 1x20 NO	1x5 no
CO028 - 1x20 NO	in 500 ml Pack	1x20 no

InstaCull™

Instrument Disinfectant cum Cleaner

What is InstaCull™ ?

InstaCull™ is an alcohol-based, aldehyde-free rapid disinfectant.

What does InstaCull™ contain ?

Active ingredients : Isopropyl Alcohol I.P. 45.0 % V/V, Benzalkonium Chloride (50%) I.P. 0.3 %W/V, N Propanol 35 % V/V, Octyldecyldimethyl ammonium chloride 0.13% W/V, Dioctyldimethyl ammonium chloride: 0.057% W/V, Didecyldimethyl ammonium Chloride: 0.082% W/V.

Others ingredients : Sodium Benzoate

How does InstaCull™ act ?

InstaCull™ 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.

How effective is InstaCull™ ?

InstaCull™ 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.

How safe is InstaCull™ ?

InstaCull™ is an alcohol based instrument disinfectant suitable for use in rapid disinfection of alcohol-resistant surfaces as it leaves no residues and is fragrance and colorant free. It is, therefore ideal to use in areas where not only a rapid effect is required but also quicker drying is needed.

InstaCull™ is suitable

- * In operating theaters, in out-patient departments,
- * In wards, laboratories, blood banks and in primary healthcare.

Directions for use

Spray the article to be disinfected, with a sufficient amount of InstaCull™ ensuring complete coverage. Wipe with sterile cloth before use to ensure that the article is free from any traces left behind.

Salient features

- Rapid disinfectant
- Quicker drying
- Prolonged residual effect
- Leaves no residues



References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

InstaCull™		
Code	Product	Packing
CO109-1X10NO	InstaCull™	1X10NO
CO109-1X20NO	In 500 ml dispenser bottle w/ pump	1X20NO
CO110-1X10NO	InstaCull™	1X10NO
CO110-1X20NO	In 500 ml dispenser bottle w/o pump (Refill Pack)	1X20NO

PowerCull™

Aldehyde free cleaning disinfectant

What is PowerCull™ ?

PowerCull™ is an aldehyde free cleaning disinfectant with a broad spectrum effect.

What does PowerCull™ contain ?

Active ingredients : Benzalkonium chloride IP 10 % w/v
Didecyl dimethyl ammonium chloride IP 5 % w/v
Polyhexamethylene Bigunide Hydrochloride 8 % w/v

How does PowerCull™ act ?

High level surface disinfectant produced by Synergic combination of 5th generation Quats with bigunide.

High level surface disinfectant with Nano-technology that carries the active ingredients through the cell walls for rapid, complete cell death of microbes.

How effective is PowerCull™ ?

It is Bactericidal, fungicidal, Yeasticidal, tuberculocidal, Mycobactericidal, Virucidal against enveloped viruses including (HIV, HBV, HCV), sporicidal.

The synergistic blend of active ingredients produces the fastest acting and most efficient tuberculocidal and sporicidal disinfectant available in non-oxidising technology.

Applications of PowerCull™ ?

Surface • Environment • High Risk Areas • ICU's • Operation Theaters • Burn Units • Dental Clinics • Terminal Disinfection of Infectious wastes • In Pharmaceuticals as fogging and surface disinfectant.

Directions for use

- Disinfection of Critical areas 10 to 15 ml per liter of water use any type of foggers.
- Fogging Time: 15 to 30 Minutes. Sterile Area Ready for use in 1 - 2 hours.
- For Mopping use 10ml per liter of water

Salient features

- Eco friendly
- specifically formulated for fogging
- Broad spectrum effect and surface Disinfection

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



C0119

PowerCull™		
Code	Product	Packing
C0119-1X10NO	PowerCull™	1X10NO
C0119-1X20NO	In 500 ml bottle	1X20NO
C0120-1X5NO	PowerCull™	1X5NO
	In 1 lit can	
C0121-1X2NO	PowerCull™	1X2NO
	In 5 lit can	

PowerCull™ - Active

Aldehyde free Disinfectant cum Cleaner

What is PowerCull™ Active ?

PowerCull™ Active is an aldehyde-free instrument disinfectant for heat sensitive and heat resistant instruments with powerful cleaning effect.

What does PowerCull™ Active contain ?

Active ingredients : Benzalkonium chloride IP 13.8 % W/V, Didecyldimethylammonium chloride 9.2 % W/V

Others ingredients : Lauryl amine Oxide, Sodium Bicarbonate, Perfume & colour.

How does PowerCull™ Active act ?

PowerCull™ Active contains fifth-generation quaternary ammonium compounds in its formulation which inhibits the growth of pathogenic microorganisms. These are broad spectrum disinfectants having bactericidal, tuberculocidal, virucidal (even against enveloped viruses) and fungicidal properties.

How effective is PowerCull™ Active ?

PowerCull™ Active is supplied in form of concentrate. On using appropriate dilutions for disinfection as per the requirements, a proper disinfection of instruments and equipment is attained. Wipe the surfaces to be disinfected, with a sufficient amount of the solution ensuring complete coverage to achieve a reduction in microbial count.

How safe is PowerCull™ Active ?

PowerCull™ Active 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.

Directions for use

Surface Disinfection: 4 ml in 1 liter water

Instrument Disinfection: 100ml in 1 liter water

Salient features

- Eco-friendly formulation
- Excellent material compatibility
- Powerful cleaning effect
- Broad spectrum activity

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



CO122

PowerCull™ Active		
Code	Product	Packing
CO122-1X10NO	PowerCull™ Active	1X10NO
CO122-1X20NO	In 500 ml bottle	1X20NO
CO123-1X5NO	PowerCull™ Active	1X5NO
	In 1 lit can	
CO124-1X2NO	PowerCull™ Active	1X2NO
	In 5 lit can	

PowerCull™ - Plus

Aldehyde free Disinfectant

What is PowerCull™ Plus ?

PowerCull™ Plus is an aldehyde free instrument disinfectant for heat sensitive and heat resistant instruments with powerful cleaning effect.

What does PowerCull™ Plus contain ?

Active ingredients : Benzalkonium chloride IP 9.2 gms, Didecylidimethylammonium chloride 13.0 gms, Poly Hexamethylene Biguanide hydrochloride (20%) 8.0 gms.

Others ingredients : Ethoxylated Nonyl Phenol, Sodium Benzoate.

How does PowerCull™ Plus act ?

PowerCull™ Plus with its Fifth Generation quaternary ammonium compounds and Bigunide based formulation shows a sustained antimicrobial action. These are broad spectrum disinfectants having bactericidal, tuberculocidal, virucidal (even against enveloped viruses) and fungicidal properties.

How effective is PowerCull™ Plus ?

PowerCull™ Plus is supplied in form of concentrate. On using appropriate dilutions for disinfection as per the requirements, a proper disinfection of instruments and equipment is attained. Wipe the surfaces to be disinfected, with a sufficient amount of the solution ensuring complete coverage to get a substantial reduction in microbial load.

How safe is PowerCull™ Plus ?

PowerCull™ Plus has excellent material compatibility with materials like metals, various types of plastics, rubber, acrylic glass etc. making it suitable for wet-wipe disinfection without any damage caused.

PowerCull™ Plus is suitable for

- * Sterilization of Surgical equipments
- * For disinfecting and sterilization of O.T., I.C.U. & other critical areas

Directions for use

Surface Disinfection: 4 ml in 1 liter water

Instrument Disinfection: 50 ml in 1 liter water

Salient features

- Eco-friendly formulation
- Excellent material compatibility
- Powerful cleaning effect
- Broad spectrum activity



CO125

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

PowerCull™ Plus		
Code	Product	Packing
CO125-1X10NO	PowerCull™ Plus	1X10NO
CO125-1X20NO	In 500 ml bottle	1X20NO
CO126-1X5NO	PowerCull™ Plus	1X5NO
	In 1 lit can pack	
CO150-1X2NO	PowerCull™ Plus	1X2NO
	In 5 lit can pack	

Hispark

Alkaline Cleaning Solution

What are Hispark Cleaning Solutions ?

Hispark Cleaning Solutions are clear colourless alcoholic antiseptic with alkaline (HS001) and neutral pH (HS002).

What does Hispark Alkaline Cleaning Solutions contains ?

Hispark alkaline cleaning solutions contains –
n-alkyl benzenesulphonic acid, sodium salts
n-alkyl benzenesulphonic acid, triethanolamine salts

How effective are Hispark Cleaning Solutions ?

Hispark Cleaning Solutions are universal cleaning agent for heavy contamination. They are used for cleaning tables, tiles and floors in lab. They are also used for cleaning precision instruments of glass quartz and sensitive metals. They are also used for ultrasonic cleaning.

How safe are Hispark Cleaning Solutions ?

Hispark Cleaning Solutions causes mild irritation to eyes and skin

Salient features

- Kills germs
- Effective for 5 - 6 hours
- Easy to use
- Biodegradable

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



HS001

Hispark		
Code	Product	Packing
HS001-500ML	Hispark Alkaline Cleaning Solution, Biodegradable	500ml
HS001-5L		5lt
HS002-500ML	Hispark Cleaning Solution, Neutral, Biodegradable	500ml
HS002-5L		5lt

SteriSwift™

Ready to use Disinfection Wipes

What is SteriSwift™ Disinfectant Wipes ?

SteriSwift™ Wipes are ready-to-use disinfection wipes with short action time, wide range of material compatibility and with good coverage and cleaning power.

What does SteriSwift™ Disinfectant Wipes contain ?

Each wipe contains :

Benzalkonium chloride I.P 0.30% W/W,
 Octyldecyldimethylammonium chloride 0.13%,
 Dioctyldimethylammonium chloride 0.057%,
 Didecyldimethylammonium chloride 0.082%, Perfume
 Absorbant wipe.

How does SteriSwift™ Disinfectant Wipes act ?

Benzalkonium Chloride & other ammonium chlorides are known quaternary ammonium compounds which inhibit the growth of pathogenic microorganisms. They are broad spectrum disinfectant having bactericidal, virucidal (even against enveloped viruses) and yeasticidal properties.

How effective is SteriSwift™ Disinfectant Wipes ?

SteriSwift™ wet wipes can be effectively used for disinfecting surfaces or objects previously soiled with blood or body fluid.

How safe is SteriSwift™ Disinfectant Wipes ?

Due to its wide range of material compatibility, SteriSwift™ Disinfectant Wipes can be used on washable, hard and non-porous surfaces such as Acrylic, Granite, Glass and Metals including Stainless Steel.

Directions for use

Normal Surface: Wipe surface with SteriSwift™ wet wipe until the surface is visibly wet. Allow the surface to remain wet for 5 to 10 minutes. Allow to dry.

Dirty Surface: Clean the surface first with a cloth or sheet. Wipe the surface with SteriSwift™ wet wipes. Allow the surface to remain wet for 10 minutes. Allow to air dry. Do not reuse the wipe. Rinse the surfaces used for food articles with clean potable water after disinfecting.

Re-wetting after storage: A few days on shelf may cause the active ingredients to partly collect at the bottom of the container. To uniformly wet the tissue before use the container can be rolled on the table surface a few times before using. Do not up-turn the container at any stage. Keep the lid tightly-closed.

Salient features

- Eco-friendly formulation
- Easy to use
- Resealable packing
- Easy withdrawal of single wipes



CO100

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.
3. Plate inoculated with swab used on surface before applying SteriSwift™ wipes
4. Plate inoculated with swab used on the same surface after using SteriSwift™ wipes

SteriSwift™ Disinfectant Wipes		
Code	Product	Packing
CO100-1X2NO	SteriSwift™ Disinfectant Wipes	1X2NO
CO100-1X5NO	Size 7" x 7"	1X5NO
CO100-1X10NO		1X10NO
CO100S-1X2NO	SteriSwift™ Disinfectant Wipes	1X2NO
CO100S-1X5NO	Size 6" x 8"	1X5NO
CO100S-1X10NO		1X10NO

Disinfectant Wipes in pouch packing

Ready to use Antimicrobial Wipes

What is Disinfectant Wipes ?

Hiquat Wipes are ready-to-use disinfection wipes with short action time, wide range of material compatibility and with good coverage and cleaning power.

What does Disinfectant Wipes contain ?

Each wipe contains :

SteriSwift™ Disinfectant Wipes : Benzalkonium chloride I.P 0.30% W/W, Octyldecyldimethylammonium chloride 0.13%, Dioctyldimethylammonium chloride 0.057%, Didecylmethylammonium chloride 0.082%, Perfume Absorbant wipe.

Hi-Quat Disinfectant Wipes : N, Alkyaldimethyl benzylammonium chloride - 0.37% W/V, N, Alkyaldimethyl ethyl benzylammonium chloride - 0.27 % W/V.

HiShield™ Disinfectant Wipes : Ethyl alcohol IP 70 % w/w, Chlorhexidine Gluconate solution IP- 2.5 % w/w.

SteriFast™ Disinfectant Wipes : IPA-45%W/W, N,propanol-30% W/W, Mecetronium ethosulphate-0.2%W/W.

How does Disinfectant Wipes act ?

Benzalkonium Chloride & other ammonium chlorides are known quaternary ammonium compounds which inhibit the growth of pathogenic microorganisms. They are broad spectrum disinfectant having bactericidal, virucidal (even against enveloped viruses) and yeasticidal properties. Ethanol destroys 99.99% of all microbes viz., gram-positive and gram-negative bacteria, fungi and viruses while 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.

How effective is Disinfectant Wipes ?

Disinfectant wipes can be effectively used for disinfecting surfaces or objects previously soiled with blood or body fluid. The wipe is effective against bacteria, mycobacteria (Tb), fungi and enveloped viruses (incl. HBV, HIV, HCV), as well as rota virus. Reduces the germ flora by more than 99.99% within 30 sec.

How safe is Disinfectant Wipes ?

Due to its wide range of material compatibility, Hiquat Wipes Disinfectant Wipes can be used on washable, hard and non-porous surfaces such as Acrylic, Granite, Glass and Metals including Stainless Steel.

Directions for use

Normal Surface: Wipe surface with Hiquat Wipes wet wipe until the surface is visibly wet. Allow the surface to remain wet for 5 to 10 minutes. Allow to dry.

Dirty Surface: Clean the surface first with a cloth or sheet. Wipe the surface with Hiquat Wipes wet wipes. Allow the



Hiquat Wipes

Code	Product	Packing
CO173-20NO	SteriSwift™ Disinfectant Wipes, In Pouch Packing Size 8" x10" (Surface and instrument)	1X20NO
CO174-10NO	SteriSwift™ Disinfectant Wipes, In Pouch Packing Size 5" x 7" (Surface and instrument)	1X10NO
CO175-20NO	Hi-Quat Disinfectant Wipes, In Pouch Packing Size 8" x 10" (Surface and instrument)	1X20NO
CO182-10NO	Hi-Quat Disinfectant Wipes, In Pouch Packing Size 5" x 7" (Surface and instrument)	1X10NO
CO176-20NO	HiShield™ Disinfectant Wipes, In Pouch Packing Size 8" x 10" (Hand and skin)	1X20NO
CO183-10NO	HiShield™ Disinfectant Wipes, In Pouch Packing Size 5" x 7" (Hand and skin)	1X10NO
CO184-20NO	SteriFast™ Disinfectant Wipes, In Pouch Packing Size 8" x 10" (Hand and skin)	1X20NO
CO185-10NO	SteriFast™ Disinfectant Wipes, In Pouch Packing Size 5" x 7" (Hand and skin)	1X10NO

surface to remain wet for 10 minutes. Allow to air dry. Do not reuse the wipe. Rinse the surfaces used for food articles with clean potable water after disinfecting.

For the skin disinfection complete moistening is necessary. In case of Tb use twice.

Salient features

- Eco-friendly formulation
- Easy to use
- Resealable packing
- Easy withdrawal of single wipes

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

Note : For details of individual disinfectant wipes, respective specification sheets can be referred.

HiPolyzyme Detergent Cleaner

HiPolyzyme is a multi-enzymatic detergent cleaner for medical devices such as endoscope that is soiled with proteins, lipids, carbohydrates and starch.

What is HiPolyzyme ?

HiPolyzyme is uniquely formulated for the cleaning cycle in automatic endoscope reprocessors. Contains a rust inhibitor to help protect valuable medical devices and surgical instruments.

What does HiPolyzyme contain ?

Active ingredients : Protease, Lipase, Amylase, and cellulase.

Others ingredients : non-ionic surfactants (15%w/v), pH regulators, chelating agents, corrosion inhibitors and softeners.

How does HiPolyzyme act ?

The composition of soil found on endoscopes include proteins, fats, starches, carbohydrates and various chemical salts that exist in body fluids such as blood. The enzymes enhance detergent cleaning for medical use by breaking down proteins and other substances found in blood and other contents that cannot be easily removed with solutions containing just detergents, water and surfactants. It begins to act in just one minute allowing fast turnaround of instruments.

Directions for use

In-use concentration Dispense 8 ml (0.8%) or 16 ml (1.6%) per liter of water. Soak time 5 to 10 minutes.

Salient features

- Multi Enzymatic Detergent cleaner
- Contains the key enzymes important for rapid, more complete penetration and effective removal of bioburden.
- Biodegradable,* rinses easily,
- Effectively breaks down proteins like blood, mucous and feces contained in the bio film with reduced mechanical action.
- Effectively improve the surface wetting of hard-to-reach areas like endoscope channels, and cleans lipids, greases and fats.
- Easy rinsing – its low foaming properties and neutral pH prevent it from leaving residues so that instruments can be effectively disinfected.
- Easily removes organic stains like blood spots etc from the cloth.



References :

1. American Society for Gastrointestinal Endoscopy (ASGE). Transmission of infection by gastrointestinal endoscopy. Gastrointest Endosc. 2001;54:824-828.
2. Hutchinson B, LeBlanc.C. The truth and consequences of enzymatic detergents. Gastroenterol Nurs. 2005;28:372-376.
3. Rutala WA, Weber DJ. Reprocessing endoscopes: United States Perspective. J. Hosp Infect.2004; 56.

HiPolyzyme Detergent Cleaner		
Code	Product	Packing
CO159-1X2NO	HiPolyzyme Detergent Cleaner in 500 ml Bottle	1X5NO
CO160-1X5NO	HiPolyzyme Detergent Cleaner in 1 liter can pack	1X2NO

HiClean And Cure

Unique Surgical Instrument Rust remover

What is HiClean and Cure ?

HiClean and Cure is a Quick, Safe and Efficient Revitalizing instrument Solution Hi Clean and Cure is excellent cleaning power on mineral and organic soils easily removes even pertinacious calcification, grease and urinary calculus as well as cosmetic residues.

What does HiClean and Cure contain?

Organic and inorganic acids, Non ionic Surfactants and corrosion inhibitors.

How does HiClean and Cure Solution act?

It is unique formulation which perform function of cleaner, disinfectant and rust remover. HiClean and Cure is a cleaner cum stain. HiClean and Cure contains highly active cleaning acid which in combination with non ionic surfactant and rust inhibitor.

How effective is HiClean and Cure Solution?

HiClean and cure is based on a synergistic combination of Quaternary Ammonium Compounds and an acid Compatible Detergent System

How safe is HiClean and cure?

HiClean and Cure is a highly effective cleaner to remove tarnish loose rust and rust stain. It also removes stubborn and rusted stains.

Directions for use

Disinfection & cleaning in immersion bath: Instruments are immersed in a warm 1-10% Hi Clean and Cure solution (10-15ml/ltr at 50 C for 1 hour)

For Instruments with carbide insert use only 10ml/ltr. Hi Clean and Cure solution after contact time of 1 hour the instruments are removed and thoroughly rinsed with water and dried.

For internal cleaning of pipe line pass (15-20ml in 1 litre water) diluted Clean and Cure through the pipe line & Rinse thoroughly with clean water.

Salient features

- Removes stains
- Powerful cleaner
- Powerful disinfectant
- Eco friendly

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



HiClean And Cure		
Code	Product	Packing
CO193-500ml	HiClean And Cure	1X20NO
CO194 -1 Ltr.		1X6NO
CO195 -5 Ltr.		1X2NO

Peroxide Silver

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

What is Peroxide Silver ?

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.

What does Peroxide Silver contain ?

Active ingredients : Silver nitrate IP 0.01% w/w
Hydrogen peroxide 12.0 % w/w

How does Peroxide Silver act ?

The combined effect of H₂O₂ with silver nitrate results 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. The silver attacks the defense system (enzymes) of the micro organisms and the hydrogen-peroxide attacks its membrane and internal organs (DNA and RNA) resulting in cellular dysfunction.

How safe is Peroxide Silver ?

Store at room temperature. Do not store together with alkalis, salt, reducing agents and combustible substances..

Directions for use

1. Aerial fumigation : A 20% concentration (20ml in 80ml of DW) can be used to fumigate a 1000 cu ft area for 30 min.
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 atleast 20 min. Allow it to dry and do not rinse.
3. Instrument Disinfection : After cleaning and rinsing with water the instruments should be submerged in a 10% solution for atleast 20 minutes. Allow them to dry and do not rinse.

Salient features

- Eco-friendly as the breakdown products are water and oxygen
- Remains active and stable for longer periods
- Non carcinogenic
- Removes and destroys the adhesive Biofilms of microbes.
- Causes no irritation to skin or eyes
- Non pollutant and biodegradable



References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

Peroxide Silver		
Code	Product	Packing
CO165-1X3NO	Peroxide Silver in 1 liter can pack	1X3NO
CO166-1NO	Peroxide Silver in 5 liter can pack	1NO

PowerCull™ - Extra

Aldehyde free Disinfectant

What is PowerCull™ Extra ?

PowerCull™ Extra is an aldehyde free surface disinfectant with powerful cleaning effect.

What does PowerCull™ Extra contain ?

Active ingredients : Benzalkonium Chloride IP - 8.68 % W/W

Didecyl dimethyl ammonium chloride - 3.906 % W/W

Diocetyl Dimethyl ammonium chloride - 2.604 % W/W

Octyl decyl dimethyl ammonium chloride - 6.51 % W/W

How does PowerCull™ Extra act ?

The synergistic blend of active ingredients produces the fast acting and efficient tuberculocidal and sporicidal disinfectant. It is • Sporicidal • Tuberculocidal • Non Irritant • Biodegradable • Non Corrosive • Non Toxic • Non Hazardous. Areas of Application Surface • Environment • High Risk Areas • ICU's • Operation Theaters • Wards • In Pharmaceuticals as fogging and surface disinfectant

How effective is PowerCull™ Extra ?

PowerCull™ Extra is supplied in form of concentrate. On using appropriate dilutions for disinfection as per the requirements, a proper disinfection of instruments and equipment is attained. Wipe the surfaces to be disinfected, with a sufficient amount of the solution ensuring complete coverage to get a substantial reduction in microbial load.

How safe is PowerCull™ Extra ?

PowerCull™ Extra has excellent material compatibility with materials like metals, various types of plastics, rubber, acrylic glass etc. making it suitable for wet-wipe disinfection without any damage caused.

PowerCull™ Extra is suitable for

- * Sterilization of Surgical equipments
- * For disinfecting and sterilization of O.T., I.C.U. & other critical areas

Directions for use

Disinfection of Critical areas :10 to 15 ml per liter of water (use any type of foggers). Fogging Time: 15 to 30 Minutes. Sterile area is ready for use in 1 -2 hours. For Mopping : use 10ml per liter of water

Salient features

Specifically formulated for fogging and surface disinfection. High level surface disinfectant produced by Synergic combination of four quats to make lethal 5th generation Quaternary ammonium compound. The 4 quats work in unison to impart high level surface disinfectant with Nano-technology that carries the active ingredients through the cell walls for rapid, complete cell death of microbes.



References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

PowerCull™ Extra		
Code	Product	Packing
CO167-1X5NO	PowerCull™ Extra In 500 ml bottle	1X5NO
CO168-1NO	PowerCull™ Extra In 1 lit can pack	1NO

AlkaSept Active

Effective against Pathogens

What is AlkaSept Active ?

AlkaSept Active is suitable for the cleaning surface disinfection of washable surfaces using the wet wipe procedure.

What does AlkaSept Active contain ?

Active ingredients : Each 100 gms contains 1,6 hydroxy 2-5 Dioxahexane: 11.2 gms Glutaraldehyde-5.0 gms Benzalkonium chloride-5.0 gms Alkyl Urea derivative: 3.0 gms

How does AlkaSept Active act ?

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-dimethylammonium chloride are also known quaternary ammonium compounds which inhibit the growth of pathogenic microorganisms.

How effective is AlkaSept Active ?

AlkaSept Active is supplied in form of concentrate. Bactericidal, fungicidal, yeasticidal, tuberculocidal, sporicidal, virucidal, virucidal against enveloped viruses (incl. HBV, HIV, HCV), MNV, hepatitis A and rotaviruses. On applying appropriate dilution, there is a significant reduction in microbial load on the site of application. However contact between aldehyde-based & amine-based products must be avoided. Hence if amine-based products are previously used an intermediate cleaning must be carried out before using AlkaSept Active.

How safe is AlkaSept Active ?

Alkasept Active is suitable for the cleaning surface disinfection of washable surfaces using the wet wipe procedure, for example: • for medical devices and inventory, which come under the Medical Device Directive • in hospitals and residential/nursing homes, particularly for all functional areas • for areas in the pharmaceutical industry that are relevant to hygiene • in laboratories and the cosmetics industry.

Directions for use

Disinfection of Critical areas : 10 to1 5 ml per liter of water (use any type of foggers). Fogging Time: 15 to 30 Minutes. Sterile area is ready for use in 1 - 2 hours. For Mopping : use 10ml per liter of water.

Salient features

- Unique blend of three potent biocide.
- Fast action
- Long lasting residual effect.



- Penetrates microbial cell wall swiftly and effectively binds the cellular protein ensures total lysis
- Penetrates even the difficult to reach areas.

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

AlkaSept Active		
Code	Product	Packing
CO163-1X5NO	AlkaSept Active In 500 ml Bottle	1X5NO
CO164-1NO	AlkaSept Active In 1 lit Can Pack	1NO

CombiSept™

Disinfect your floors effortlessly

What is CombiSept™ ?

CombiSept™ is a clear golden brown transparent liquid cleaner concentrate cum-disinfectant for high risk areas OT, ICU and Critical Care Units.

What does CombiSept™ contain ?

Active ingredients : Benzalkonium chloride IP (50%) 5.0% W/V.

Others ingredients : Isopropyl Alcohol, Poly Hydroxy methyl Biguanide hydrochloride, Formaldehyde, Perfume, Indicator.

How does CombiSept™ act ?

After spraying or application as directed, it kills all potential pathogenic flora as well as saprophytic flora which includes gram-positive bacteria, gram-negative bacteria, fungi, fungal spores and viruses. The chemical ingredients individually impairs metabolic functions of microbial entities, acting on plasma membrane thus lysing cell, coagulating proteins and inactivating enzymes.

How effective is CombiSept™ ?

It kills all microbes on the surface applied may be floors or surface of OT, ICU & heavily infected areas. It is a very strong disinfectant.

How safe is CombiSept™ ?

It offers excellent disinfection of applied areas. The concentration of ingredients is totally nontoxic, eco friendly. This product needs careful handling. Dilution of 1:100 is recommended for use.

Salient features

- Easy to use
- Environment friendly
- Non toxic
- For high risk areas, OT, ICU

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



CO032

CombiSept™		
Code	Product	Packing
CO032 - 1x20 NO	CombiSept™ in 500 ml Can Pack	1x20 no
CO033 - 1x5 NO	CombiSept™ in 1 lit Can Pack	1x5 no
CO034 - 1x2 NO	CombiSept™ in 5 lit Can Pack	1x2 no

Bactrex Plus

Disinfectant cum Cleaner

What is Bactrex Plus ?

Bactrex Plus is a formaldehyde-free, highly active and non-toxic, noncorrosive surface disinfectant.

What does Bactrex Plus contain ?

Active ingredients : Benzalkonium Chloride (50%)I.P 20.0 % W/V, Didecyl-dimethylammonium chloride 5.0% W/V

Others ingredients : Isopropyl Alcohol, Perfume, Indicator.

How does Bactrex Plus act ?

Benzalkonium Chloride & Didecyl-dimethylammonium chloride are known quaternary ammonium compounds which inhibit the growth of pathogenic microorganisms. They are broad spectrum disinfectant having bactericidal, virucidal (even against enveloped viruses) and yeasticidal properties.

How effective is Bactrex Plus ?

Bactrex Plus is supplied in form of concentrate. On applying appropriate dilution, there is a significant reduction in microbial load on the site of application is seen. However an intermediate cleaning must be carried out before using Bactrex Plus in case of change of products.

How safe is Bactrex Plus ?

Bactrex Plus is an aldehyde-free surface disinfectant that combines excellent cleaning power with a broad spectrum of effect and a high degree of material compatibility leaving behind pleasant fragrance. The material compatibility of the disinfectant extends to a wide range of materials like metals, various types of plastics, rubber, acrylic glass etc. making it suitable for damage free wet-wipe disinfection.

Directions for use

Terminal cleaning: Use 2% solution (Add 20ml Bactrex Plus to 980 ml of water) for mopping of walls, surfaces and floors of high risk areas like OT's and ICU's

Regular cleaning: Use 1% solution (add 10ml Bactrex Plus to 990 ml of water) for regular cleaning of walls, surfaces and floor of the premises.

Fogging/Fumigation: Use 5% solution (add 50ml Bactrex Plus to 950ml of water). Close, door, windows, fans and AC before fogging wait for 60 minutes before entering the treated area.

Salient features

- Formaldehyde-free
- Excellent cleaning power
- High degree of material compatibility
- Highly active, non- toxic and non-corrosive



CO106

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

Bactrex Plus		
Code	Product	Packing
CO106-1X10NO	Bactrex Plus	1X10NO
CO106-1X20NO	In 500 ml Bottle	1X20NO
CO107-1X5NO	Bactrex Plus (In 1 lit Can Pack)	1X5NO
CO108-1X2NO	Bactrex Plus (In 5 lit Can Pack)	1X2NO

HiGiene Germitol

Sanitize your floors effortlessly

What is HiGiene Germitol ?

HiGiene Germitol is specially formulated product which gives many properties in one bottle. It is powerful disinfectant cum germicide with detergent property, thus keeping the place sterile and sparkling clean.

What does HiGiene Germitol contain ?

Active ingredients : Benzalkonium chloride (50%) IP 20%

Others ingredients : Isopropyl Alcohol, Emulsifier, Perfume, Indicator.

How does HiGiene Germitol act ?

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.

How effective is HiGiene Germitol ?

HiGiene Germitol ensures excellent cleansing and rapid disinfection. It destroys spores as well as vegetative forms and thus creates a sterile atmosphere. Essential oils and compounds like jasmine absolute, citronella give soothing and lasting fragrance, eliminating mal odour. It has got enhanced stain removing properties and is highly effective even at minor concentration of 1 ml HiGiene Germitol in 200 ml water. Sustained high degree of asepsis is ensured.

How safe is HiGiene Germitol ?

HiGiene Germitol is totally non-toxic and environment friendly compared to various other products. It is non corrosive and safe to handle.

Directions for use

- For dirty surface (1:20)
- For normal cleaning (1:200)

For regular cleaning prepare dilution by adding 9 capful (cap of 500 ml can) of Germitol to 15 litre water

For heavily contaminated surfaces, prepare dilution by adding 18 capful (cap of 500 ml can) of Germitol to 3 litre water

Salient features

- Eco-friendly formulation
- Totally non-toxic
- Rapid disinfection

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



CO008

HiGiene Germitol		
Code	Product	Packing
CO008 - 1x5 NO	HiGiene Germitol	1X5NO
CO008 - 1x20 NO	500 ml Can Pack	1X20NO
CO009 - 1x2NO	HiGiene Germitol	1x2 no
	5 lit Can Pack	

HiGiene Germisol

Purify your sanitary surfaces the Germisol way

What is HiGiene Germisol ?

HiGiene Germisol is a surface sanitary disinfectant having powerful disinfecting and germicidal action.

What does HiGiene Germisol contain ?

Active ingredients : Benzalkonium chloride (50%) IP 5.0%

Others ingredients: Isopropyl Alcohol, Poly hexa methylene Biguanide hydrochloride, Didecyldemethylammonium chloride, Perfume, Indicator.

How does HiGiene Germisol act ?

It is active against bacteria, fungi and viruses. It destroys spores as well as vegetative forms of microorganisms. Besides being germicidal it has excellent detergent and enhanced stain removing properties.

How effective is HiGiene Germisol ?

On application the microbial load is reduced to 99.99% within a minute.

How safe is HiGiene Germisol ?

It is totally nontoxic and ecofriendly. Recommended dilution for use is 1:70.

Add 15 ml (Capful of 5 litre can) of Germsol to 1 litre of water.

Salient features

- Removes stains
- Eco friendly
- Powerful disinfectant cum cleaner

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



HiGiene Germisol		
Code	Product	Packing
CO084 - 1x10 NO	HiGiene Germisol	1x10 no
CO084 - 1x20 NO	in 500 ml Can Pack	1x20 no
CO086 - 1x2 NO	HiGiene Germisol	1x2 no
	in 5 lit Can Pack	

CombiClean

Sanitize your bathrooms 100%

What is CombiClean ?

CombiClean is a powerful cleaner-cum-disinfectant. It removes stubborn stains from toilet, bowls, urinals, washbasins, sinks, ceramic tiles and tile flooring of bathrooms, washrooms etc. more readily than any other medium.

What does CombiClean contain ?

Active ingredients : BKC- 0.05% W/V, Poly (Hexamethylene biguanide) hydrochloride 2%

Others ingredients : non ionic surfactant and chelating agents.

How does CombiClean act ?

It is a unique formulation which performs distinct function of cleaner, disinfectant and bleach. It is a powerful cleaner-cum-stain remover. The chemicals used in the formulation are selected after careful evaluation of their cleaning properties. Some of the properties of these chemicals are altered by complex chemical reaction to make them combine effectively with other ingredients. CombiClean contains highly active cleaning acid which in combination with cleaning agents and non-toxic surfactant forms thick viscous clear liquid.

How effective is CombiClean?

CombiClean kills 100% germs that breed in the toilets. It kills spores as well as vegetative forms of germs thus effectively checking the growth of germs. Due to combined effect of ingredients it has enhanced stain removing property.

How safe is CombiClean?

This product is acidic in nature. The product should be handled carefully.

Directions for use

Spread CombiClean evenly on the sides and corners of the pot with the help of the brush. Keep it for 20 minutes and flush to get sparkling clean appearance. All the other ceramic parts can be similarly cleaned with CombiClean.

Salient features

- Removes stains
- Powerful cleaner
- Powerful disinfectant
- Eco friendly



References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

CombiClean		
Code	Product	Packing
CO031 - 1x2 NO	CombiClean in 5 lit Can Pack	1x2 no

HiShield™ HC

Disinfectant-antiseptic concentrate with broad spectrum antiseptic effect

What is HiShield™ HC ?

HiShield -HC is a disinfectant-antiseptic solution with broad spectrum antiseptic effect. And have bactericidal, fungicidal properties also effective against Yeast, Mold and protozoa

What does HiShield™ HC contain ?

Active ingredients : Chlorhexidine Gluconate solution IP- 7.5% W/V, Cetrimide IP - 15%W/V

Others ingredients : Isopropyl Alcohol Glycerin ,Propylene Glycol, Perfume,

How does HiShield™ HC Solution act ?

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 antiinfectives against bacteria and fungi.

How effective is HiShield™ HC Solution ?

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

How safe is HiShield™ HC ?

HiShield™ HC has excellent material compatibility with materials like metals, various types of plastics, rubber, acrylic glass etc. and is a very gentle yet a reliable disinfectant with exceptionally good skin tolerability even with long term use

Directions for use

RECOMMENDED DILUTIONS:

A. 1 in 100 Aqueous (10 ml made upto 1 Litre with water):

Cleansing and disinfection of equipment & furniture, Cleansing and disinfection of post operative wounds, Aseptic management of burns, swabbing in obstetrics and Gynaec. Department., Storage of sterilised instrument and clinical thermometers.

B. 1 in 30 Aqueous (35 ml made upto 1 Litre with water):

Cleansing and disinfecting physically dirty wounds.
Cleansing and disinfecting Catheters, rubber appliances etc



C. 1 in 30 in 70% alcohol (35 ml with 200 ml water made upto 1 Liter with 95% alcohol):

- * Skin disinfection for preoperative procedures, *emergency disinfection of clean instruments (immerse for 2 mins.)
- *Disinfection of clinical thermometers

Salient features

- Excellent material compatibility
- No harmful residue
- Persistent antimicrobial activity
- Good long term effect

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

HiShield™ HC		
Code	Product	Packing
CO 191-500ml	HiShield™ HC	500ML
CO 192 -1 Ltr.	HiShield™ HC	1LTR.

HiPurair Antimoth

Environment Disinfectant cum Air purifier

What is HiPurair Antimoth ?

HiPurair Antimoth is powerful disinfectant cum air purifier. It keeps the environment hygienic and safe.

What HiPurair Antimoth contains ?

HiPurair Antimoth contains Benzalkonium chloride, Isopropyl alcohol, Neem extract, Poly (hexa methylene biguanide) hydrochloride, Emulsifier and Perfume.

How HiPurair Antimoth acts ?

Ethanol destroys 99.99% of all microbes viz., gram-positive and gram-negative bacteria, fungi and viruses. Benzalkonium chloride shows excellent germicidal property by destroying spores as well as vegetative form of microorganisms. Benzalkonium chloride acts on the microbes by inactivating enzymes and coagulating proteins. Neem extract kills odour causing bacteria and repels insects. Purair Antimoth is mildly perfumed giving pleasant fragrance in the surroundings.

How safe is HiPurair Antimoth ?

HiPurair Antimoth is ready to use, eco-friendly formulation. It is a moth repellent and a powerful disinfectant.

Directions for use

For deodorizing the air: Spray product upwards. The product quickly disperses in the atmosphere.

For surface disinfection: Clean the surface, spray the product. For prolonged disinfection spray and leave for 3 to 5 minutes & wipe off.

Salient features

- Kills Germs
- Environment friendly
- Air Purifier

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



HiPurair Antimoth		
Code	Product	Packing
CO014 - 1x2 NO	HiPurair Antimoth w/ Spray pump in 500 ml Bottle	1x2 no
CO014 - 1x5 NO		1x5 no
CO014 - 1x20 NO		1x20 no

HiShield™ Aerosol - AL Spray

Gamma irradiated is the sterile 70% Iso propyl alcohol

What is HiShield™ Aerosol - AL Spray ?

HiShield Aerosol AL Spray, Gamma irradiated is the sterile 70% Iso propyl alcohol in pressurized inert gas Aluminium Canister designed using aerosol technology. It is the ideal disinfectant for control of pathogenic and contaminating organisms in manufacturing sites, process equipments, operation theatres, clinical laboratories to maintain controlled environments. It is also ideal for disinfection of hand and floor surfaces and is effective against wide variety of organisms including MRSA.

What does HiShield™ Aerosol - AL Spray contain ?

Active ingredients : Isopropyl alcohol 70%
Water for injection 30%

How safe is HiShield™ Aerosol - AL Spray ?

Dissolves in water, readily biodegradable, oxidizes rapidly by photochemical reactions in air. No environmental hazard is anticipated with the small volumes associated with the product, provided that the product is handled and disposed off with due care and attention.

Directions for use

- Use this spray alone or apply it to sterile wipes.
- Use in a well vented area.
- Hold spray bottle little away from surface and spray area until it is completely covered with solution, or spray directly on to the Sterile Clean Room Wipes and apply in straight strokes.
- Allow to air dry.

Salient features

- The product is triple packed and gamma irradiated to achieve the Sterility Assurance Level of 10⁻⁶.
- HiShield Aerosol can is hermetically sealed, so the contents cannot leak or spill and the container is tamper-resistant and tamper-evident.
- The container is designed to deliver the disinfectant exactly where it is needed. Using an aerosol package reduces waste and spillage.
- The hermetically sealed package protects the product and, can be stored without risk of evaporation.
- The sealed canister prevents the product contamination.

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.



HiShield™ Aerosol - AL Spray		
Code	Product	Packing
CO154GT-1NO	HiShield™ - AL Spray In 5 lit can pack	1NO
CO158AGT-1X2NO	HiShield™ Aerosol - AL Spray	1X2NO
CO158AGT-1X5NO	In 1 lit can pack	1X5NO
CO181-1X10NO	IPA 70% In 500 ml dispenser bottle with pump	1X10NO

HiKleen

What is HiKleen ?

It is an eco friendly broad spectrum disinfectant (Oxidizing agent) useful for, 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.

What does HiKleen contain?

Active Ingredients : Peracetic Acid :- 5 % w/w

Hydrogen Peroxide : 20 % w/w

Other Ingredient : Acetic Acid :- 11 % w/w

How does HiKleen act ?

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 sulfhydryl 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.

How safe is HiKleen ?

Store at room temperature. Do not store together with alkalis, salt, reducing agents and combustible substances. Completely biodegradable

Directions for use

Dilution ratio

1. For Cleaning Dialyzer: 1:40 RO water (Minimum Contact Time:30 min)
2. For Disinfection of Dialyzer : 1:28.5 RO water(Minimum Contact Time: 10 to 12 hrs)
3. Dialyzer Cap disinfection: 1:99 DM water
4. Surface Disinfection: 2ml in 1 litre water (Minimum contact time 10 min)
5. Sanitization & cleaning of RO membrane: 0.8 ml in 1 litre DM water (Minimum contact time 10 min)

Salient features

- ♦ Eco-friendly as the breakdown products are water and oxygen
- ♦ Removes and destroys the adhesive Biofilms of microbes.
- ♦ Causes no irritation to skin or eyes
- ♦ Non pollutant and biodegradable



References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

HiKleen		
Code	Product	Packing
CO196 -1X6NO	HiKleen in 1 tr bottle	1X6NO
CO197 -1X2NO	HiKleen in 5 tr can pack	1X2NO

HiSter Plus

Aldehyde Free Disinfection of Critical Areas

What is HiSter Plus ?

HiSter Plus is a formaldehyde-free surface disinfectant-cleaner recommended for the disinfectant cleaning of medical equipment in hospitals and residential/nursing home.

What does HiSter Plus contain ?

Active ingredients : Benzalkonium chloride IP 13.6% W/V, Didecyldimethylammonium chloride 13.0% W/V , Polyhexamethylene Biguanide Hydrochloride 5 % w/v

Others ingredients : Isopropyl Alcohol, Perfume.

How does HiSter Plus act ?

Quaternary compounds in Hi ster Plus impart antibacterial, virucidal and tuberculocidal activity at low dilutions. It is bacteriostatic in high dilutions with a very high tolerance to both hard water and organic soil in combination with non ionic surfactants. The non ionic surfactants first activity is to attack cell walls as a penetrative agent allowing the combinations of disinfectants to enter the cortex of the cell and destroy it. The secondary activity is as a surface active agent or detergent that loosens organic material into suspension in water. The long chain quaternary compounds of Hi Ster Plus possess very good antibacterial activity

How effective is HiSter Plus ?

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 deliver true broad spectrum activity against virus , mycobacteria, fungi, bacterial organisms, spores and protozoa, yet in a safe, easy to use and very economical way. 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 cannot reach. One simple economic dilution rate 1:100 for the most efficient broad spectrum activity in high risk conditions Safe to humans and animals, Nontoxic, non-corrosive

How safe is HiSter Plus ?

HiSter 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.



Areas of Application:

- *General disinfection of all surfaces, walls, examination tables,
- *Can be used on rubber, vinyl and food preparation areas

Method of Application:

Disinfection of Critical areas 10 to 15 ml per liter of water.
For general Mopping use 10ml per litre of water

Salient features

- ♦ Eco-friendly formulation ♦ Excellent material compatibility
- ♦ Powerful cleaning effect ♦ Broad spectrum activity

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

HiSter Plus		
Code	Product	Packing
CO198 -1X6NO	HiSter Plus in 1 lit bottle	1X6NO
CO199 -2NO	HiSter Plus in 5 lit can pack	2NO

HiQuat Citrus

Aldehyde free fragrant surface disinfectant combining the effectiveness of a 5th Generation quat with the solvency and natural fragrance of Citrus Oil

What is HiQuat Citrus?

HiQuat Citrus is an aldehyde-free critical surface disinfectant for OT's NICU, ICU's with powerful cleaning effect.

What does HiQuat Citrus contain ?

Active ingredients : Benzalkonium chloride IP 13.8 % W/V, Didecyltrimethylammonium chloride 9.2 % W/V, Citrus oil 3 % w/v

Others ingredients : Lauryl amine Oxide, Sodium Bicarbonate, Perfume & colour.

How does HiQuat Citrus act ?

HiQuat Citrus contains fifth-generation quaternary ammonium compounds in its formulation which inhibits the growth of pathogenic microorganisms. These are broad spectrum disinfectants having bactericidal, tuberculocidal, virucidal and fungicidal properties with citrus fragrance.

How effective is HiQuat Citrus?

HiQuat Citrus is supplied in form of concentrate. On using appropriate dilutions for disinfection as per the requirements, a proper disinfection of instruments and equipment is attained. Wipe the surfaces to be disinfected, with a sufficient amount of the solution ensuring complete coverage to achieve a reduction in microbial count.

How safe is HiQuat Citrus?

HiQuat Citrus 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.

Directions for use

Surface Disinfection : 4 ml in 1 liter water

Instrument Disinfection : 100ml in 1 liter water

Critical area Disinfectant : 20 ml in 1 liter water

Fogging and Mopping : 15 ml in 1 ltr water

Salient features

- Eco-friendly formulation
- Excellent material compatibility
- Citrus fragrance
- Aldehyde free
- Broad spectrum activity



References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

HiQuat Citrus		
Code	Product	Packing
CO200 -1X20NO	HiQuat Citrus	1X20NO
CO201 -1X6NO	HiQuat Citrus	1X6NO
CO202 -1X2NO	HiQuat Citrus	1X2NO

HiQuat D331

Hospital – Surface and Environment Disinfectants

What is HiQuat D331?

HiQuat D331 is specifically formulated for fogging and Surface Disinfection. HiQuat D331 is a high level surface disinfectant produced by Synergic 3rd combination of 3 generation Quats with bigunide.

What does HiQuat D331 contain?

Benzalkonium Chloride I.P.- 2.37% W/V,
Polyhexa -methylene bigunide hydrochloride-1.6% W/V
N,Alkyldimethyl Ethylbenzylammonium chloride-2.37% W/V

How does HiQuat D331 act?

The synergistic blend of active ingredients produces the fastest acting and efficient disinfectant available in non-oxidising technology. It is

• Sporicidal • Tuberculocidal • Non Irritant • Biodegradable • Non Corrosive • Non Toxic • Non Hazardous.

How effective is HiQuat D331 ?

HiQuat D331 have an increased biocidal activity, increased detergency and increased user safety by a relatively low toxicity. The use of the HiQuat D331 helps to prevent bacterial resistance to continued use of a single molecule

How safe is HiQuat D331?

HiQuat D331 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.

Areas of Application:

HiQuat D331 is suitable for the disinfection for operation theater, Endoscopy, Emergency, ICU, Dental clinics, Labour room, ICCU, Cathlab, Dialysis unit, Isolation wards, SICU, Burn unit, Microbiology, Blood Banks, NICU, Laboratory, etc

Method of Application:

- Aerial Fogging :- 15 ml in 1 ltr of water (Use power fogger)
- Disinfecting precleaned surface Semi & non critical instrument Sterilization : 10 ml in 1 water (Mopping or spraying Dip instrument depending on contact time & Organic load)
- Disinfectant of Critical areas :- 15 ml in 1 ltr water (Use any type of fogger)
- Disinfection of surgical & critical Instruments: - 15 ml in 1 ltr water (Dip the instrument depending on the contact time.)
- Pharmaceutical or vaccine manufacturing area class 100



or A class area :- 20 ml in 1 ltr water (Spray using power sprayer)

- Decontamination of surgical refuge :- 15 ml in 1 ltr water (Dip the refuge for 40 minutes before disposing)

Salient features

- Eco-friendly formulation
- Excellent material compatibility
- Aldehyde Free
- Powerful cleaning effect
- Broad spectrum activity

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

HiQuat D331		
Code	Product	Packing
CO206 -1X20NO	HiQuat D331 in 100 ml bottle	1X20NO
CO207 -1X6NO	HiQuat D331 in 500 ml bottle	1X6NO
CO208 -1X2NO	HiQuat D331 in 5 lit can pack	1X2NO

HiQuat D531

Hospital – Surface and Environment Disinfectants

What is HiQuat D531?

HiQuat D531 is an aldehyde free cleaning disinfectant with a broad spectrum effect. HiQuat D531 is specifically formulated for fogging and Surface Disinfection

What does HiQuat D531 contain ?

Active ingredients : Benzalkonium chloride IP 10 % w/v
Didecyl dimethyl ammonium chloride IP 5 % w/v
Polyhexamethylene Bigunide Hydrochloride 8 % w/v

How does HiQuat D531act ?

This product is specifically formulated for fogging and Surface Disinfection

High level surface disinfectant produced by Synergic combination of 5th generation Quats with bigunide.

High level surface disinfectant with Nano-technology that carries the active ingredients through the cell walls for rapid, complete cell death of microbes.

How effective is HiQuat D531?

It is Bactericidal, fungicidal, Yeasticidal, tuberculocidal, Mycobactericidal, Virucidal against enveloped viruses including (HIV, HBV, HCV), sporicidal.

The synergistic blend of active ingredients produces the fastest acting and most efficient tuberculocidal and sporicidal disinfectant available in non-oxidising technology.

Applications of HiQuat D531?

Surface • Environment • High Risk Areas • ICU's • Operation Theaters • Burn Units • Dental Clinics • Terminal Disinfection of Infectious wastes • In Pharmaceuticals as fogging and surface disinfectant.

Directions for use

- Aerial Fogging :- 15 ml in 1 ltr of water (Use power fogger)
- Disinfecting precleaned surface Semi & non critical instrument Sterilization : 10 ml in 1 water (Mopping or spraying Dip instrument depending on contact time & Organic load)
- Disinfectant of Critical areas :- 15 ml in 1 ltr water (Use any type of fogger)
- Disinfection of surgical & critical Instruments :- 15 ml in 1 ltr water (Dip the instrument depending on the contact time.)
- Pharmaceutical or vaccine manufacturing area class 100 or A class area :- 20 ml in 1 ltr water(Spray using power sprayer)
- Decontamination of surgical refuge :- 15 ml in 1 ltr water (Dip the refuge for 40 minutes before disposing)



Salient features

- Eco-friendly formulation
- Excellent material compatibility
- Aldehyde Free
- Powerful cleaning effect
- Broad spectrum activity

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

HiQuat D531		
Code	Product	Packing
CO209 -1X20NO	HiQuat D531 in 500 ml bottle	1X20NO
CO210 -1X6NO	HiQuat D531 in 1 lit bottle	1X6NO
CO211 -1X2NO	HiQuat D531 in 5 lit can pack	1X2NO

HiQuat D541

Aldehyde free - Surface and Environment Disinfectants

What is HiQuat D541?

HiQuat D541 is an aldehyde free high level 5th generation formulated for fogging of surface disinfection.

What does HiQuat D541 contain ?

Active ingredients : Benzalkonium Chloride IP - 8.68 % W/W
Didecyl dimethyl ammonium chloride - 3.906 % W/W
Dioctyl Dimethyl ammonium chloride - 2.604 % W/W
Octyl decyl dimethyl ammonium chloride - 6.51 % W/W

How does HiQuat D541 act ?

The synergistic blend of active ingredients produces the fast acting and efficient tuberculocidal and sporicidal disinfectant. It is • Sporicidal • Tuberculocidal • Non Irritant • Biodegradable • Non Corrosive • Non Toxic • Non Hazardous. Areas of Application Surface • Environment • High Risk Areas • ICU's • Operation Theaters • Wards • In Pharmaceuticals as fogging and surface disinfectant

How effective is HiQuat D541?

HiQuat D541 is supplied in form of concentrate. On using appropriate dilutions for disinfection as per the requirements, a proper disinfection of instruments and equipment is attained. Wipe the surfaces to be disinfected, with a sufficient amount of the solution ensuring complete coverage to get a substantial reduction in microbial load.

How safe is HiQuat D541?

HiQuat D541 has excellent material compatibility with materials like metals, various types of plastics, rubber, acrylic glass etc. making it suitable for wet-wipe disinfection without any damage caused.

HiQuat D541 is suitable for

- * For disinfecting and sterilization of O.T., I.C.U. & other critical areas

Directions for use

- Aerial Fogging :- 15 ml in 1 ltr of water (Use power fogger)
- Disinfecting pre-cleaned surface Semi & non critical instrument Sterilization : 10 ml in 1 water (Mopping or spraying Dip instrument depending on contact time & Organic load)
- Disinfectant of Critical areas :- 15 ml in 1 ltr water (Use any type of fogger)
- Disinfection of surgical & critical Instruments: - 15 ml in 1 ltr water (Dip the instrument depending on the contact time.)
- Pharmaceutical or vaccine manufacturing area class 100 or A class area :- 20 ml in 1 ltr water (Spray using power sprayer)



- Decontamination of surgical refuge :- 15 ml in 1 ltr water (Dip the refuge for 40 minutes before disposing)

Salient features

- Eco-friendly formulation
- Excellent material compatibility
- Aldehyde Free
- Powerful cleaning effect
- Broad spectrum activity

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation.

HiQuat D541		
Code	Product	Packing
CO212-1X20NO	HiQuat D541 in 500 ml bottle	1X20NO
CO213-1X6NO	HiQuat D541 in 1 lit bottle	1X6NO
CO214-1X2NO	HiQuat D541 in 5 lit can pack	1X2NO

HiGlut TH4

The Powerful Disinfectant

What is HiGlut TH4 ?

HiGlut TH4 is Effective even in presence of organic matter and hard water cleaning effect.and have High efficacy at low concentration

What does HiGlut TH4 contain ?

Each Liter contains:

Benzalkonium chloride IP :	50.00gms
Didecyl dimethy ammonium chloride :	18.75 gms
Diocetyl Dimethyl Ammonium chloride :	18.75 gms
Octyl Dedecyldimethylammonium chloride :	37.50 gms
Glutaraldehyde IP :	62.5 gms
Pine Oil :	20.00 gms
Terpineol :	20.00 gms

How does HiGlut TH4 act ?

Quaternary Ammonium compound : A new generation of QAC with an increased germicidal activity. Active in very hostile conditions (presence of hard water and in hard water). Active on coated virus, naked viruses, on Gram and Gram + bacteria, bacterial spores and fungi. Glutaraldehyde: Broad spectrum including Gram +ve and Gram -ve bacteria, bacterial spores and naked viruses (Parvovirus, enterovirus) Terpentine Derivatives : Antiseptic , Antiviral, and bactericidal activity .Effective insect repellent. It has capacity to stick to vertical surfaces and delay the evaporation of the product

How effective is HiGlut TH4 ?

The association of the Quaternary and Glutaraldehyde improves the respective spectrum of the components. It helps to be more effective against all bacterial, fungicidal and viral targets even in the presence of interfering organic matters.

How safe is HiGlut TH4?

HiGlut TH4 has excellent material compatibility with materials like metals, various types of plastics, rubber, acrylic glass etc. and chemically stable and non corrosive

Area Of Application :-

Due to its broad spectrum of activity and it's safe usage HiGlut TH4 is recommended in the following units:

Pig farming: Breeding, furrowing, and fattening unit.

Poultry Farming: Breeder farms, layers, Broilers, Hatcheries
Others: Horse stable, Dairy and cattle farms, rabbit farms, Catteries

Veterinary clinics: for prevention of cross contamination between patients, especially in the case of canine parvovirus infection.

Food Hygiene: Disinfection of slaughter houses, cold storage



rooms, Food and Feed transport trucks

Directions for use

- Spraying (Terminal & Routine disinfection) No specific Disease: 1 litre TH4 diluted in 200 litre of water to cover 600 Sq. meter.
- Dipping (Foot bath and Wheel bath):No specific disease 1 litre HiGlut TH4 diluted in 200 litres of water
- Thermo fogging (Terminal disinfection)Dilute 2.5 Litre of HiGlut TH4 in 2.5 Litre

Salient features

- Eco-friendly formulation
- Excellent material compatibility
- Biodegradable
- Chemically Stable and Non corrosive
- Broad spectrum activity

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.

HiGlut TH4		
Code	Product	Packing
CO220 -1X20NO	HiGlut TH4 in 500 ml bottle	1X20NO
CO221 -1X6NO	HiGlut TH4 in 1 lit bottle	1X6NO
CO222 -1X2NO	HiGlut TH4 in 5 lit can pack	1X2NO

Hiquat D 905

The Versatile Disinfectant

What is Hiquat D 905 ?

Hiquat D 905 is Effective even in presence of organic matter and hard water cleaning effect. and have High efficacy at low concentration

What does Hiquat D 905 contain ?

Benzal konium chloride IP- 13.6% W/V, Didecyl dimethyl ammonium chloride:9.2%W/V, Tributyl Tin Oxide:1%W/V

How does Hiquat D 905 act ?

Quaternary Ammonium: A new generation of QAC with an increased germicidal activity. Active in very hostile conditions (presence of hard water and hard water). Active on coated virus, naked viruses, on Gram and Gram + bacteria, bacterial spores and fungi. Tri butyl Tin Oxide act as a fungicidal and anti befouling,

How effective is Hiquat D 905?

The association of the Quaternary and Tri butyl Tin Oxide improves the respective spectrum of the components. It helps to be more effective against all bacterial, fungicidal and viral targets even in the presence of interfering organic matters.

How safe is Hiquat D 905?

Hiquat D 905 has excellent material compatibility with materials like metals, various types of plastics, rubber, acrylic glass etc. and chemically stable and non corrosive

Method Of Application

- Empty Shed Disinfection-4ml per litre of water- Spray 1 litre of diluted solution for every 25 Sq.Ft. carpet area from top to bottom.
- In presence of birds- 4ml per litre of water –spray with HPE, 1 liter of diluted solution for every 150 Sq. Ft. carpet area.
- Hatchery Disinfection- 4ml per litre of water spray with HPE
- Hatchery/setter fogging- 50 ml per litre of water- ULV fogging
- Egg tray Disinfection-4 ml per litre of water- Dip & Wash
- Foot Dip- 4ml per litre of water-Change regularly
- FMD/Bumble Foot-2ml per liter of water- Dip Feet daily.

Directions for use

Usage Schedule for Poultry:

- Empty Shed Disinfection- 2.5ml per litre of water- Spray 1 litre of diluted solution for every 25 Sq.Ft. carpet area from top to bottom.
- In presence of birds-2.5ml per litre of water – spray with HPE, 1 litre of diluted solution for every 150 Sq. Ft. carpet area.
- * Hatchery Disinfection- 2.5 ml per litre of water-spray with HPE
- Hatchery/setter fogging-25-50 ml per litre of water- ULV fogging
- Egg tray Disinfection-2.5 ml per litre of water-Dip & Wash
- Foot Dip/Wheel Dip- 5ml per litre of water-Change regularly
- FMD/Bumble Foot-2.5ml per litre of water- Dip Feet daily.



Salient features

- Eco-friendly formulation
- Biodegradable
- Broad spectrum activity
- Excellent material compatibility
- Chemically Stable and Non corrosive

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation

HiQuat D 905		
Code	Product	Packing
CO223-1X20NO	Hiquat D 905 in 500 ml bottle	1X20NO
CO224-1X6NO	Hiquat D 905 in 1ltr bottle	1X6NO
CO225-1X2NO	Hiquat D 905 in 5 ltr can pack	1X2NO

HiClean & Cure Plus

Multi Action disinfectant

What is HiClean and Cure Plus ?

HiClean and Cure Plus is perfect blend of sanitizer and descaler. Safe for use in presence of bird. And have excellent performance and economical.

What does HiClean and Cure Plus contain ?

Composition :-

Didecyl dimethyl ammonium chloride:3%W/V, Citric Acid:8% W/V

How does HiClean and Cure Plus act?

Didecyl dimethyl ammonium chloride: A new generation of QAC with an increased germicidal activity. Active in very hostile conditions (presence of hard water and hard water). Active on coated virus, naked viruses, on Gram and Gram + bacteria, bacterial spores and fungi Citric Acid is work as excellent descaling properties,

How effective is HiClean and Cure Plus?

HiClean and Cure Plus have a excellent cleaning power on mineral and organic soil, effectively remove pertinacious calcification, grease, and cosmetic residues. Based on a synergistic combination of Quaternary Ammonium Compounds and organic acids.No adverse effects on the surface or watering system. Dissolves biofilm, no choking/ clogging/ cracking of nipples

How safe is HiClean and Cure Plus?

HiClean and Cure Plus has excellent material compatibility with materials like metals, various types of plastics, rubber, acrylic glass etc. and chemically stable and non corrosive phosphate free , citrated and biodegradable.

Area of Application :

Water storage tank,Watering system and cooling pads.

Direction for use :

- **Pipeline disinfection and descaling:**50ml pr litre of water, circulate the diluted liquid through pipe till deposits are removed.
- **Water acidification :** 1 - 2 ml per 10 litre of water, add daily.
- **A.I. Tips :** Dip for 30 minutes and rinse well

Salient features

- Excellent cleaning power on mineral and organic soil* effectively remove pertinacious calcification, grease, and cosmetic residues
- Safe for use in presence of birds
- Based on a synergistic combination of Quaternary Ammonium Compounds and organic acids
- No adverse effect on the surface or watering system
- Removes stains and hard water deposits



- Removes stubborn organic residues of the instruments
- Remove tarnish, loose rust and rusted stains
- Phosphate free, Citrated and biodegradable.
- Ideal product for water storage tanks, watering system and cooling pads.
- No choking, clogging or cracking of Nipples
- Excellent performance and economical

References :

1. Sean C Sweetman (editor) 2011 Martindale- The Complete Drug Reference, 37th edition, Pharmaceutical Press.
2. Daryl S. Paulson (editor) 1999, Topical Antimicrobial Testing and Evaluation

HiClean & Cure Plus		
Code	Product	Packing
CO226-1X20NO	HiClean & Cure Plus in 500ml bottle	1X20NO
CO227-1X6NO	HiClean & Cure Plus in 1 lt bottle	1X6NO
CO228-1X2NO	HiClean & Cure Plus in 5lt can pack	1X2NO

Hygienic Handrub



Apply the disinfectant to the cupped dry hands.



Palm to Palm rub (5 times)



Rub right hand palm over back of left hand and vice versa (5 times)



Palm to palm rub with finger interlaced (5 times)



Rub the back of fingers to opposite palms with finger interlocked (5 times)



Rub with rotational movements on right thumb clasped in left palm and vice versa (5 times).



Rub clasped fingers of right hand in left palm with rotational backwards and forwards movements and vice versa (5 times).

Standard rub method as per European Standard EN 1500

Following the procedure shown below, vigorously rub HiCare Triclogel into the hands up to the wrists for 30 seconds. Carry out the movements of each step (step 2 to 7) five times. After the end of step 7, individual steps should be repeated for the duration of the contact time. If necessary apply more hand disinfectant. Ensure that the hands remain moist throughout the rub-in time.



- Asia
- Africa
- Australia

- North America
- South America
- Europe



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