

# Haylide

[www.haylide.com](http://www.haylide.com)

**Green Formulations for a better Planet**

## Hospital Disinfection & Personnel Hygiene Range



**Complete Doctor & Patient Protection**  
**Unparalleled Hospital Disinfection**  
**Safest Ingredients (Latest International norms)**



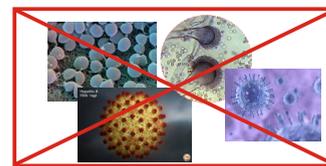
# Haylide - Hospital Care Range

## Complete Doctor & Patient Protection

Products that cover every inch of the Hospital including Floors, Hand Hygiene, Patient Bedside (Hard Surfaces), Medical Equipment, Glass, Doors, Furniture etc. This provides for Complete Hospital Hard Surface Hygiene to combat Nosocomial Infection Risk at the very Source of the Infection.



For Hand Hygiene of Doctors, Medical Staff & Patients Haylide has developed a brand new range of Hand washes & Sanitizers that incorporate dual or triple sanitization & provide all round Protection.



## Unparalleled Hospital Disinfection

For the First time choice of not one or two but 3 Disinfectants. Protection against Gram negative, Gram Positive Bacteria (including mycobacteria), Viruses including Enveloped Viruses such as HIV, Hepatitis B, H1N1. Fungal Yeasts & Moulds including Spores.



Floor & Washroom



Door Handles



Furniture



Glass



Patient Bedside



Medical Equipment



Intensive Care Unit

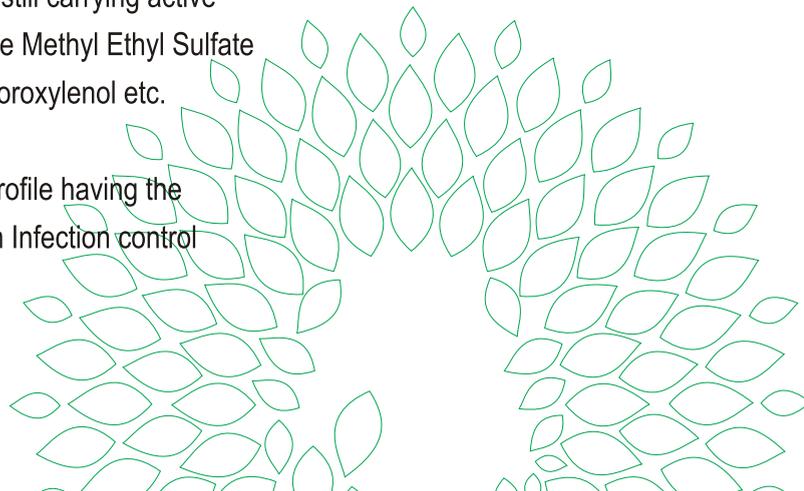


Operation Theatre

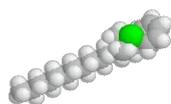
## Safest Ingredients (Latest International norms)

At Haylide we take Safety as Seriously as Performance because protection from infection should not mean exposure to long term toxic effects of Chemicals. It is surprising to note that very popular formulations in India are still carrying active ingredients now banned in the EU (their parent countries) like Methyl Ethyl Sulfate or Macetronium Ethyl Sulfate, Propan-2-ol, Propan-1-ol, Chloroxylenol etc.

We have taken utmost care to chose the above Ingredient profile having the highest safety record with the best possible Broad spectrum Infection control Profile.



# Ingredient Profile



Benzalkonium Chloride

### Biocidal Activity:

Disruption of inter molecular interactions. This can cause dissociation of cellular membrane lipid bilayers, which compromises cellular permeability controls and induces leakage of cellular contents.

### Efficacy:

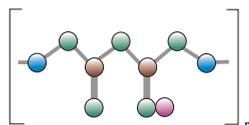
Gram positive & negative bacteria including MRSA strains at 50 to 500 ppm.

Viruses such as H1N1, HIV, Hepatitis B & SARS at 1800-2000 ppm.

Fungi & Yeasts MIC is 2500 ppm.

### Safety:

Used Widely in Ophthalmic Eye Solutions as preservative & skin Contact products like Medicated Strips for many years. It is even approved as a no Rinse Food Surface Cleaner at up to 250 ppm by US FDA. It is one of the safest anti microbial in current use in the world



Polyhexamethylene Biguanide<sup>n</sup>

### Biocidal Activity:

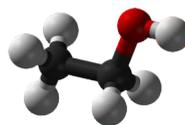
It has a unique method of action: the polymer strands are incorporated into the bacterial cell wall, which disrupts the membrane and reduces its permeability, which has a lethal effect to bacteria. It is also known to bind to bacterial DNA, alter its transcription, and cause lethal DNA damage.

### Efficacy:

Microorganism	MIC (ppm)
Escherichia coli	5
Pseudomonas aeruginosa	100
Pseudomonas putida	25
Bacillus subtilis	5
Staphylococcus aureus	1
Streptococcus faecalis	25
Aspergillus niger	750
Endomycopsis albicans	300
Saccharomyces cerevisiae	100
H1N1 Virus	2000

### Safety:

PHMB has very low toxicity to higher organisms such as human cells, which have more complex and protective membranes. It is also used in eye drops & even



Ethanol

### Biocidal Activity:

Little is known about the specific mode of action of alcohols, but based on the increased efficacy in the presence of water, it is generally believed that they cause membrane damage and rapid denaturation of proteins, & subsequent interference with metabolism and cell lysis.

### Efficacy:

Ethanol exhibits rapid broad-spectrum antimicrobial activity against vegetative bacteria & mycobacteria, viruses, and fungi. Ethanol is effective against almost all species at over 62% - 70% & above & is preferred in hospitals.

### Safety:

Ethanol is Biodegradable Eco friendly naturally derived from grain & has very low inhalation & oral toxicity compared to synthetically produced highly toxic n-propanol. Ethanol is more potent than propanol on viruses even though propanol is slightly more potent on bacteria but since our products use a combination with Benzalkonium Chloride this is taken care of.



Biodegradable  
Surfactants  
& Inactives

### Assistive Activity:

Inactives like Surfactants, Chelating Agents, Emollients etc. play a pivotal role in differentiating between products with similar or same active ingredients. The difference in the inactive improves biocidal efficacy, cleaning performance (in case of cleaners) & feel of products on hands (In case of Hand hygiene products).

### Improvement in Efficacy:

At Haylide we use a combination of Cationic surfactants that have their own biocidal activity & add to the biocidal efficacy of PHMB & BKC. We also use Latest Technology Non Ionics imported from Germany along with safe Chelating agents that increase performance in hard water conditions increasing the biocidal efficacy by removal of microbes from surfaces & aiding actives to work better in hard water

### Safety:

All our inactives are 100% biodegradable, many are natural source based & have been chosen according to global safety norms.

## Certifications & International Norms

QMS Certified



ISO 9001:2008 Certified

FDA Licensed, GMP



MP FDA & GMP Certificate

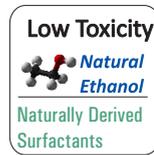
Following International Safety Norms of



World Health Organization



US FDA GRAS: Food Safety



## Hand Sanitization - Hand Rub (Low Toxicity, Non Irritant Formula)

### **SANITZ+** Disinfecting Hand Rub

Denatured Ethanol 70% v/v +  
Benzalkonium Chloride 0.015% w/v



Has been formulated to give broad Spectrum Hand Sanitization with Instant Disinfection of & Long term Stay on Protection.

Care has been taken to Use Naturally Derived Ethanol (Denatured) to reduce toxicity levels to the lowest as compared to synthetic alcohols. Benzalkonium Chloride has highest Safety standard for Skin contact & provides an effective Stay on barrier.

The above with a combination of Glycerine & Natural Moisturizers gives an excellent soft after feel without any stickiness or irritability.

### **SANITZ** Instant Hand Sanitizer Denatured Ethanol 62% v/v Triclosan 0.5% w/v



SANITZ Instant Hand Sanitizer gives optimum protection from Infections with Instant Sanitization of Ethanol 62% v/v.

Prolonged Protection upto 2-3 hours after Sanitization with residual effect of Triclosan.

A combination of Glycerine & Aloe Vera as moisturizers provide for a soft moisturized after feel with no drying or irritability. SANITZ Hand Sanitizer comes in Gel based format & is ideal for use in Wards by Doctors, Medical Personnel & Patients alike. The Gel format reduces wastage as well.

## Disinfecting Hand Wash- Foaming (Non Irritant Moisturizing Formula)

### **SANWASH+** Sanitizing Foam Hand Wash

Benzalkonium Chloride 2.5% w/v



Has been formulated to give broad Spectrum Hand Sanitization with Long term Stay on Protection in Critical Settings.

With 25000 ppm of Benzalkonium Chloride, Maximum Efficacy is achieved in minimum contact time (30 seconds scrubbing) & hands stay infection free for up to 2 hours after wash.

Care has been taken to Use Naturally Derived Surfactant with a combination of Glycerine & Natural Moisturizers.

### **SANITZ** Anti Microbial Hand Wash Triclosan 0.75% w/v



SANITZ Anti Microbial Hand Wash provides broad spectrum protection from Infections with an ideal combination of Cleaning Surfactants & Triclosan 0.75% w/v.

Prolonged Protection upto 1 hour after Washing with residual effect of Triclosan.

A combination of Glycerine & Aloe Vera as moisturizers provide for a soft moisturized after feel with minimum drying or irritability. SANITZ Hand Wash is ideal for use in Wards by Doctors, Medical Personnel & Patients alike.

## Hand Sanitization - Hand Rub (WHO Formula)

### **SANITZ-0<sub>2</sub>** Disinfecting Hand Rub

Denatured Ethanol 80% v/v +  
Hydrogen Peroxide 0.125% w/v +  
Glycerol 1.45% w/v



Has been formulated exactly according to WHO Standards for Hand Rub. The High Ethanol Content of 80% takes care of almost all Pathogens. Naturally Derived Ethanol (Denatured) has lower toxicity levels to the lowest as compared to synthetic alcohols.

As per



World Health  
Organization

Specifications

Hydrogen Peroxide provides a further sanitizing effect & is completely safe leaving no chemical residue.

The above with a combination of Glycerol gives an excellent soft after feel without any stickiness or irritability.

This formulation is approved for Pre Surgical Hand Scrubbing by WHO.



## Surgical Equipment Enzymatic Cleaning & Dip Disinfection

### SANZYME Multi Enzymatic Cleaner



SANZYME is a unique Enzyme Based Surfactant Cleaner containing a Blend of Eco Friendly Non Ionic Surfactants along with Protease, Lipase & Amylase to be able to fight & remove organic residue like Blood, sputum (Protein) & other Fatty & Starchy residue that may be present on Hard Surfaces.

SANZYME is Quat Free, Chlorine Free & doesn't contain any hazardous ingredients.

### UTILEX San+ Dip / Spray Disinfectant Concentrate



An Ideal Dip / Spray & leave on Sanitizing Concentrate, UTILEX SAN+ combines Dual Disinfectants (which, even at 5% Dilution) provides 500 ppm Benzalkonium Chloride & 1250 ppm of PHMB ideal to Disinfect all Bacteria, Viruses & even Fungi (See MIC of PHMB on 3rd page).

Can be used for Dip / Spray Disinfection of Surgical Equipment after 1st wash with Enzymatic Cleaner.



## Diagnostic Aids - Ultra Sound & ECG Gels



US Scans



Physiotherapy



ECG Reading

### U-Sonic Ultra Sound Jelly



**U-Sonic Ultra Sound Jelly** is especially formulated to provide clear distortion free images.

Manufactured as per international standards **U-Sonic** is non irritant, non sticky & evenly spreading with a long stable shelf life

Clear Imaging    Non Tacky

### e-Card Cardio Jelly

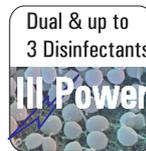
**e-Card Cardio Jelly** gives noise free readings even during TMT Tests.

Manufactured as per international standards **e-Card** is non corrosive, non sticky & with a long stable shelf life.

Available in 250 gms Nozzle Bottles & 5 Kg Refill Jars.

Noise Free Reading    Non Corrosive





## Floor Cleaner & Disinfectant (Sensitive Areas - ICU's/OT's)

**Sterishine**  
Floor Cleaner & Disinfectant



Dilutable  
Benzalkonium Chloride 43% w/v  
Polyhexameta biguanide 1% w/v

Active Ingredient Concentration at Different dilutions	2% - 20 ml/ltr -800ppm Quat + 200ppm PHMB	<p>All Floors</p>
	3% - 30 ml/ltr -1200ppm Quat + 300ppm PHMB	
	5% - 50ml/ltr -2000 ppm Quat + 500ppm PHMB	

Variants: Premium - with mild Lemon Extract  
LFRA - Non Fragranced

## Multi Surface - Cleaner & Disinfectant(Sensitive Areas - ICU's/OT's)

Dilutable - 1 minute Contact Time

**STERIWIPE+**  
Critical Multi Surface Disinfectant Cleaner



Dilutable  
Benzalkonium Chloride 3% w/v  
Polyhexameta biguanide 1% w/v

Active Ingredient Concentration at Different dilutions	2% - 20 ml/ltr -600ppm Quat + 200ppm PHMB
	3% - 30 ml/ltr -900ppm Quat + 300ppm PHMB
	5% - 50ml/ltr -1500 ppm Quat + 500ppm PHMB

Ready to Use - Instant Sanitization

**UTILEX Spray-A+**

Critical Multi Surface Instant Disinfectant Cleaner



Ready to Use  
Denatured Ethanol 62% w/v  
Benzalkonium Chloride 200 ppm  
Poly hexameta biguanide 500 ppm



## Fumigation & Air Misting Concentrate Solution (Dilutable)

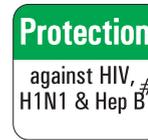
**STERIMIST**  
Fumigation & Air Misting Concentrate



Dilutable  
Denatured Ethanol 62% w/v (Carrier for Better Dispersion in Air)  
Benzalkonium Chloride 4%  
Poly hexameta biguanide 2%

Also Available STERIMIST NA (Alcohol Free Variant)

Active Ingredient Concentration at Different dilutions	2% - 20 ml/ltr -800ppm Quat + 400ppm PHMB	<p>Patient Rooms    Intensive Care Unit    Operation Theatre</p>
	3% - 30 ml/ltr -1200ppm Quat + 600ppm PHMB	
	5% - 50ml/ltr -2000 ppm Quat + 1000ppm PHMB	



## Floor Cleaner & Disinfectant (General Areas - Wards & Passages) Eco Surfactants + Ethanol + Benzalkonium Chloride 3% w/v



General Walkways	1% - 20 ml/ltr - 300ppm Quat	<p>All Floors</p>
Wards & Inpatient Areas Patient Rooms And Washrooms	2% - 20 ml/ltr - 600ppm Quat Or 3% - 30ml/ltr - 900 ppm Quat	

Variants:  
Premium - High End Fragrance  
Super - Normal Fragrance

## Multi Surface - Sanitizing Cleaner (General Areas - Wards & Passages) Eco Surfactants + Ethanol + Benzalkonium Chloride 0.5% w/v



Glass & Furniture / Door Handles	2% - 20 ml/ltr - 600ppm Quat Or
Patient Bedside / Medical Equipment	3% - 30 ml/ltr - 900ppm Quat
ICU/OT Critical Area Or during Endemic Outbreak	6% - 60ml/ltr - 1800 ppm Quat



### Also Available : for complete Hygiene needs from our other Product Ranges

#### Housekeeping



Complete Speciality Housekeeping Range including Polishes, Degreasers, Carpet Shampoos & Stain Removers etc.

#### Personal Care



Generic Hand Washes & Sanitizers  
Cosmetics in Bulk & small Packs like Shampoo, Shower Gel Moisturizers etc.

#### Kitchen Hygiene



Complete Kitchen Hygiene Range including Food Safe Sanitizing Cleaners for Hard Surfaces & Raw Food Stuffs & Staff.

#### Eco Laundry



A Unique Eco Friendly Laundry Range with Latest Oxy Bleaching & Chelate Technology. Saves Water, Cycle Time & Electricity.

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## Complete End to End Safe Hospital Hygiene Solutions

A Complete Range of Latest Disinfectant Based Products with ideal Eco Friendly & Safe Surfactant Bases for Complete Hospital Hygiene solutions.

Haylide Chemicals provides for all Hygiene needs of a Hospital including Floors & Hard Surfaces, Patient Bed Side, ICU / OT, Medical Machines, Surgical Equipment etc.

A wide range of Hand Hygiene product for Doctors, Medical personnel & Patients has been formulated with latest international Norms including WHO to cover all risks in a hospital with safety & high efficacy.

Haylides Products confirm to all International Standards of Safety like excluding Banned Disinfectants & Ingredients according to WU Parliament Notifications & also incorporating US FDA / WHO recommended safe Ingredients.

Hence the Haylide Range of Hospital Disinfection Products provides Complete End to End Safe Hygiene for an Infection Free Hospital.



Our State of the Art Factory at Richhai industrial Area, Jabalpur: Commissioned September 2011