



chemtəx

**HYDROGEN PEROXIDE
BASED DISINFECTANT**
ALSTASAN SILVOX 150

SILVER HYDROGEN PEROXIDE BASED AIR & SURFACE DISINFECTANT

ALSTASAN SILVOX 150 is a silver hydrogen peroxide based oxidizing disinfectant specifically formulated to be used as for various applications for air and surface disinfection by fumigation, surface wiping, spraying, in various commercial and industrial establishments. The primary composition includes Hydrogen Peroxide, a potent oxidizing agent, stabilized with anti-microbial Silver Nitrate. Hydrogen Peroxide is a rapid oxidizing agent damaging cellular structures coming in contact with, forbidding any chances of further replication with residual antimicrobial effect of silver. **ALSTASAN SILVOX 150** is FDA approved product by NTC and has been tested for direct human consumption in drinking water at up to 25 ppm.

Application of **ALSTASAN SILVOX 150** ensures rapid disinfection of application areas within short contact time without leaving any toxic residues. It is proven effective for decontamination of soft surfaces when applied as a spray with no mechanical wiping.

KEY FEATURES & BENEFITS

- Cold Sterilant Chemical; does not require heat for disinfection
- Environment friendly, degrades into water and oxygen post application
- Broad Spectrum Antimicrobial ensuring wide efficacy over microorganisms
- Multi-functional usage with fumigation, spraying, wiping for decontamination
- Non-tainting, Non-staining nature; fit for equipment sterilization
- No emission of toxic fumes unlike conventional fumigants like formalin, bromine, etc.
- Not post operation rinsing required
- Works on a short contact period without any gaps in efficacy
- High LD50 above 3500mg/kg body wt. ensures safe and non-toxic nature
- Easy handling and can be dosed automatically/ manually

PHYSICOCHEMICAL DATA

ATTRIBUTES	UOM	
Form	-	Clear liquid
Appearance	-	Colourless
Odour	-	Odourless
pH (neat)	-	< 2.0
Specific Gravity (20°C)	-	1.05 – 1.10
Hydrogen Peroxide IP Grade	% w/w	11.0
Silver Nitrate	ppm w/w	150
Solubility	-	Completely soluble in water

APPLICATION AREAS

- Infection control in OT, ICU, ICCU and other critical areas
- Tunnels for entry/ exit critical areas
- Toilet facilities sanitation
- Bio-medical and semi-solid waste sanitation
- Bed pans, catheters, and other surface equipment sanitation
- Sanitation of water supplies and storage tanks
- Coveralls/ PPE, masks and exposed hospital clothing



FOGGING & FUMIGATION OF OT, WARDS AND CRITICAL AREAS

- In-use concentration: 200 ml of **ALSTASAN SILVOX 150** to be diluted in 800 ml of water
- Method: Cold fogging with ULV fogger aimed indoors, strategically run from diagonal corners for optimal usage.
- Coverage Area: 1ltr solution for 1000 cu.ft. closed area

BIO-WASTE SANITATION OF BLOOD BAGS, SYRINGES, ETC.

- In-use concentration: 20% solution of **ALSTASAN SILVOX 150**
- Method: Target spraying of solution for a contact period of 30mins prior to disposal



HUMAN COVERALLS/ PPE, N95 MASKS DECONTAMINATION

- In-use concentration: 50% of **ALSTASAN SILVOX 150** with water
- Method: Coveralls and masks hung inside a cordoned space, insides open, clipped or bound, cold fogging with ULV fogger for 2hrs, followed with aeration for another 4hrs. Air dried.
- Coverage Area: Refer to specific application specific MOU

TUNNELS FOR CRITICAL AREA ENTRY

- In-use concentration: 1% solution of **ALSTASAN SILVOX 150**
- Method: Spraying on targeted areas for a contact period of 5secs. Air dried.
- Coverage Area: Refer to specific application specific MOU



MEDICAL INSTRUMENTS & EQUIPMENT STERILIZATION

- In-use concentration: 5 - 10% solution of **ALSTASAN SILVOX 150**
- Method: Immersion/ Dip method with 5% for 60mins. Spraying with 10% solution for 45mins.

SURFACE DISINFECTION

- In-use concentration: 2-5% solution of **Alstasan Silvox 150** depending upon the degree of contamination and desired wetness on the surface
- Method: Target spraying of solution for a contact period of 45mins. Air dried.



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DILUTION PROTOCOL

- Zero TDS water, Double Distilled or Tripple Distilled water.
- Do not use tap water or package drinking water for dilution.
- Always add product to water and not vice versa.
- Ensure the diluted solution is used within 24 hours. Older solution can be drained.

COMPARISON OF ALSTASAN SILVOX 150 WITH OTHER FUMIGANTS

CHARACTERISTICS	FORMALDEHYDE +KMNO4+AMMONIA	FORMALDEHYDE +GLUTARALDEHYDE	ALSTASAN SILVOX 150
Spectrum of activity	Gram positive, gram negative bacteria	Gram positive, gram negative bacteria, fungi, yeast, sheathed virus	All bacteria, spores, fungi, virus, yeast
Odour	Extremely pungent and irritating	Pungent and irritating	Odourless
Tolerance on skin	Poor	Poor	Excellent
Carcinogenicity	Yes, proven	Yes, proven	No
Re-entry time	1 day	4 – 6 hours	1 hour
Surface Compatibility	Poor	Moderate	Excellent
Toxicity (LD50)	Toxic (250mg/kg)	Toxic (400mg/kg)	Nontoxic (above 3500 mg/kg)

HANDLING MEASURES & STORAGE

Proper safety products such as splash goggles, gloves should be worn while handling and applying chemicals. Splashes on skin may cause irritation and whitening, to be washed off with cold water immediately. In case of splashing into the eyes, flush them with fresh water and seek medical attention. Should not be injected. **ALSTASAN SILVOX 150** should be stored in original containers in cool dry place, away from heat, direct sunlight and alkalis. Store in cool and dry place. Shelf life of two years when stored properly. Refer label and SDS for details.

PACKAGING

ALSTASAN SILVOX 150 is available in 1L/10L/20L HDPE jars.



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