

AIRx109

HOSPITAL-USE DISINFECTANT, VIRUCIDE* & CLEANER

AIRX 109 is the most highly concentrated disinfectant, virucide*, fungicide, sanitizer, all-purpose cleaner, deodorizer combination available for general housekeeping use. It kills highly resistant *Pseudomonas aeruginosa* and qualifies for hospital use when used at only 20mL per 5L of water. AIRX 109 maintains this effectiveness against *Pseudomonas* and a broad range of other pathogenic bacteria, virus and fungi even when diluted in water of up to 400ppm hardness, and in the presence of organic soil. Though this highly effective product has all the credentials as a disinfectant to qualify it for use in the hospital operating room, it is also an excellent cleaner, and thus is the ideal product for cleaning, disinfecting and for odor control in industrial plants, office buildings, nursing homes, hotels, motels, schools, etc.

DESCRIPTION

A highly concentrated detergent, disinfectant, sanitizer, fungicide, virucide* and odor counteractant; formulated to meet

rigid hospital requirements even when used in hard water contaminated by organic soil.

USES

For general cleaning, disinfecting and deodorizing of hard surfaces such as floors, walls, tables, counter tops, sinks, bed frames, toilets, shower stalls, tile and grout, telephones, drinking fountains, etc. For use in hospitals, nursing homes, institutions, industrial plants, schools, restaurants, stores, clubs - whenever cross contamination is of concern.

FEATURES

HIGHLY CONCENTRATED - At 20mL per 5L dilution AIRX 109 is the most concentrated disinfectant cleaner available for general housekeeping use.

DETERGENCY - Superior wetting and detergency assures excellent cleaning. AIRX 109 cuts through soils that harbor bacteria to assure that the germicides will reach the cell wall.

HARD WATER TOLERANCE - 100% non-ionic detergent base, plus special chelating agents to maintain hospital-use effectiveness, even when diluted in water of 400ppm hardness (CaCO_3).

ORGANIC SOIL TOLERANCE - Maintains hospital-use effectiveness even as the mixed solution becomes loaded with soil (5% blood serum).

ANIONIC TOLERANCE - Contains EDTA for removal of film left by other cleaners.

DEODORIZING - Eliminates odors from mold, mildew and decomposition by killing a broad range of putrefactive organisms, while Airicide cancels unpleasant odors that are already in the air.



EDMONTON
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T5L 2P1
(780) 451-1516

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T2H 1L8
(403) 640-4664

LETHBRIDGE
210C - 12A St. N.
T1H 2J1
(403) 327-1531

GRANDE PRAIRIE
#105 - 9638 - 115 St.
T8V 5W2
(780) 532-8766

FORT MCMURRAY
Bay H, 254 Gregoire Dr.
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EFFICACY & EFFECTIVENESS

GERMICIDAL EFFICACY - When tested at 20mL per 5L in water of 400ppm hardness (as CaCO₃) and in the presence of organic soil (5% blood serum) AIRX 109 has been found to be effective against the following bacteria:

Pseudomonas aeruginosa	ATCC #15442.....	60/60
Staphylococcus aureus	ATCC #6538.....	60/60
Salmonella choleraesuis.....	ATCC #10708.....	60/60
Escherichia coli.....	ATCC #11229.....	10/10
Klebsiella pneumoniae.....	ATCC #4352.....	10/10
Enterobacter aerogenes	ATCC #13048.....	10/10
Shigella dysenteriae	ATCC #12108.....	10/10
Salmonella schottmuelleri.....	ATCC #8759.....	10/10
Streptococcus faecalis.....	ATCC #10541.....	10/10
Brevibacterium ammoniagenes.....	ATCC #6871.....	10/10
Streptococcus salivarius.....	ATCC #9222.....	10/10

FUNGICIDAL EFFECTIVENESS - Kills Trichophyton mentagrophytes (the athlete's foot fungus) at 20mL per 5L in hard water and in the presence of 5% blood serum.

* **VIRUCIDAL EFFECTIVENESS** - The AIRX 109 formulation, diluted at 20mL per 5L in water of 400ppm hardness and in the presence of 5% blood serum was found to be effective against the following viruses:

- Adeno virus type 2 (a cause of acute respiratory infection)
- Adeno virus type 5 (a cause of acute respiratory infection)
- Influenza A2 (the Asian flu virus)
- Herpes Simplex type 2 (a cause of genitalia infection)

For detailed efficacy data, see the AIRX 109 Efficacy Data sheet.

SPECIFICATIONS

ACTIVE INGREDIENTS -

n-Alkyl (5% C ₁₂ , 60% C ₁₄ , 30% C ₁₆ , 5% C ₁₈) dimethyl benzyl ammonium chlorides.....	6.25%
n-Alkyl (68% C ₁₂ , 32% C ₁₄) dimethyl ethyl benzyl ammonium chloride	6.25%

CHEMICAL AND PHYSICAL CHARACTERISTICS -

TYPE GERMICIDES	dual quaternary
TYPE DETERGENTS.....	non-ionic
BIODEGRADABILITY	yes, both germicides & detergents
USE-DILUTION FOR DISINFECTING	1:256 (20mL/5L H ₂ O)
TOTAL QUATERNARIES (1:256).....	488ppm
USE-DILUTION FOR SANITIZING	1:640 (8mL/5L H ₂ O)
TOTAL QUATERNARIES (1:640).....	200ppm
pH CONCENTRATE.....	10.2 ± 0.2
pH 1:256.....	9.8 ± 0.2
pH 1:640.....	9.3 ± 0.2
STABILITY IN STORAGE.....	min. 1 yr. room temp.
FREEZE-THAW STABILITY.....	no effect from heat/cold
SOLUBILITY IN WATER.....	mixes in hot/cold/soft/hard
VISCOSITY.....	20 ± 5cps
COLOR OF LIQUID	blue
DILUTED DISCOLORATION	none
FOAMING, RTU	low, fast breaking
FLOOR CONDUCTIVITY	none at use-dilution
REFRACTIVE INDEX	30° ± 1° Brix
SPECIFIC GRAVITY	1.060 ± 0.005 g/mL
FLASH POINT	no flash

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