

VITTAL XP

High Performance Broad Spectrum DISINFECTANT-CLEANER-SANITIZER-VIRUCIDE-FUNGICIDE-MILDEWSTAT DIN # 02246209

VITTAL XP is an ultra-effective, economical, multi-purpose product that can clean, deoderize and disinfect in a single step. It’s powerful 4th generation quaternary ammonium germicidal agents kill and remove the sources of infection, mold, mildew and malodors, including antibiotic resistant variations. This, combined with a unique synergistic surfactant system that permits the product to perform as a superior cleaner and effective solvent-free, low pH degreaser. **VITTAL XP** is recommended for use in health care institutions, food plants (CFIA approved), industrial and recreational facilities, mine “dry’s”, etc. Controlled foam formulation for efficient use in automatic scrubbers. Meets the Health Canada “Broad Spectrum” criteria for efficacy against **2019 Novel Coronavirus (2019-nCoV)**

(Covid 19) ***Broad-spectrum virucide:** A substance, or mixture of substances, capable of destroying or irreversibly inactivating at a minimum one representative hard to kill non-enveloped virus, and which is expected to inactivate other enveloped and non-enveloped viruses present on environmental surfaces and inanimate objects.*

At the recommended dilutions, VITTAL XP costs only \$ 0.10 – 0.20 per liter

Specifications

Appearance	Clear blue liquid
Odour	Light Floral
Specific Gravity	1.01
pH (pure / 1:100)	11.9 / 9.7
Solubility	Complete in water
Foam	Medium Unstable
Flammability	Uninflammable
Toxicity	Low

GUARANTEE/ GARANTIE:

Alkyl(40%C12, 50%C14, 10%C16) dimethyl benzyl ammonium chloride	2.20%
Octyl decyl dimethyl ammonium chloride	1.65%
Dioctyl dimethyl ammonium chloride	0.66%
Didecyl dimethyl ammonium chloride	0.99%

Directions

VITTAL XP is a one-step disinfectant cleaner that is effective against a broad spectrum of bacteria, is virucidal (including HIV-1), fungicidal and inhibits the growth of mold and mildew and their odours when used as directed.

COVID 19 Disinfection: SARS-Related Coronavirus 2 [SARS-CoV-2] [cause of COVID-19] To disinfect hard, non-porous surfaces use 16 ml of **XP** per litre of water. Spray or otherwise apply the **XP** solution so as to thoroughly wet surfaces. Treated surfaces must remain wet for 3 min. Clean heavily soiled areas prior to disinfecting.

General Disinfection: To disinfect hard, non-porous surfaces use 16 ml of **XP** per litre of water. Spray or otherwise apply the **XP** solution so as to thoroughly wet surfaces. Treated surfaces must remain wet for 10 min.. Clean heavily soiled areas prior to disinfecting. For **heavy duty use** use 60 ml of **XP** per litre of water. Spray 15 – 20 cm from surface and scrub with brush, sponge or cloth. At 60 ml / L **XP** is virucidal, fungicidal and fungistatic. At this dilution, all surfaces on which this product is used and which come in contact with food, are to be rinsed with potable water. For **light duty** germicidal cleaning 10 ml / L is effective against Staph Aureus, Salmonella Choleraesuis, and E Coli.

Hospital & Medical Institution Use: At 16 ml / L use-level, **XP** is active against a broad spectrum of bacteria and viruses. Please consult product information for further details.

Fungicidal Control: At 16 ml / L **XP** is effective against athlete’s foot fungus so is ideal as a cleaner/disinfectant for use in athletic facilities and locker rooms.

Mold & Mildew Control: At 16 ml / L **XP** will inhibit the growth of mold and mildew, when applied to hard, non-porous surfaces. Spray or otherwise apply and allow to dry on the surface. Reapply as necessary.

Virucidal Use Dilutions: At 16 ml / L **XP** is effective against Vaccinia, Herpes Simplex Type 1 & 2, as well as Influenza A/Brazil Virus and HIV-1(1 minute minimum contact time on precleaned surface). At 64ml/L it is effective against Adenovirus Type 5.

Sanitizing Non-Food Contact Surfaces: At 4 ml / L **XP** is an effective sanitizer against Staph Aureus and Klebsiella pneumoniae .

Sanitizing Food Contact Surfaces: At 4 ml / L (200 ppm active) **XP** is an effective sanitizer against Eschericia coli, Salmonella choleraesuis, and Listeria monocytogenes. Preclean soiled surfaces with **XP**, then rinse. Spray and let dry.

Food Plant Disinfection: To disinfect hard, non-porous surfaces in food plants, use 16 ml / L and allow the treated surfaces to remain wet for 10 minutes. When used on surfaces coming in direct contact with food, rinse thoroughly with water.

ANTIMICROBIAL PROPERTIES

At a dilution rate of 1:64, in 400 ppm synthetic hard water, in the presence of 5% organic soil, with a contact time of 10 minutes, following the AOAC official "Use-Dilution Method" (meeting the EPA requirements for hard surface disinfection) **VITTAL XP** will kill the following bacteria :

Acinetobacter Baumannii	Brevibacterium ammoniagenes	Campylobacter jejuni
Enterobacter aerogenes	Enterococcus faecalis	Enterococcus faecalis (VRE)
Escherichia Coli (also ESBL)	Klebsiella pneumoniae	Legionella pneumophilia
Pseudomonas aeruginosa	Pseudomonas cepacia	Salmonella choleraesuis
Salmonella enterica	Salmonella schottmuelleri	Salmonella typhi
Serratia marcescens	Shigella dysenteriae	Staphylococcus aureus
Staphylococcus aureus(MRSA and CA-MRSA)	Staphylococcus aureus(MDRSA)	Staphylococcus aureus(VISA)
Streptococcus faecalis	Streptococcus pyrogenes	Vibrio Cholerae
Listeria monocytogenes	Yersinia enterocolitica	

At a dilution rate of 1:64(unless otherwise specified), in 400 ppm synthetic hard water, in the presence of 5% organic soil, with a contact time of 10 minutes (unless otherwise specified), following the EPA guideline **VITTAL XP** will inactivate the following viruses :

Adenovirus Type 5 / 7 (1:16 dilution)	Hepatitis B	Hepatitis C (HCV)
Herpes Simplex Type 1	Herpes Simplex Type 2	HIV-1 (AIDS virus)(1 minute contact)
Human Coronavirus	Influenza A/Brazil	Norwalk Virus (NoroVirus)
Respiratory Syncytial Virus	SARS Associated Coronavirus	Vaccinia
SARS-Related Coronavirus 2 [SARS-CoV-2] [cause of COVID-19]		

At a dilution rate of 1:64(unless otherwise specified), in 400 ppm synthetic hard water, in the presence of 5% organic soil, with a contact time of 10 minutes (unless otherwise specified), **VITTAL XP** will inactivate the following fungi and mildew :

Trichophyton mentagrophytes (AOAC official fungicidal test) **Aspergillus Niger** (EPA Mildewstat test 6-201)

At a dilution rate of 1:64(unless otherwise specified), in 400 ppm synthetic hard water, in the presence of 5% organic soil, with a contact time of 10 minutes (unless otherwise specified), **VITTAL XP** will inactivate the following animal viruses :

Avian Influenza Virus	Avian Infectious Bronchitis Virus	Canine Distemper Virus
Feline Calicivirus	Newcastle Disease Virus	Pseudorabies Virus

The information contained in this data bulletin is believed to be accurate, but all recommendations are made without warranty, since the conditions of use are beyond the control of CARTIER CHEMICALS Ltd.. The listed properties are illustrative only and are not the product specification.



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