50 YEARS

Texwipe®
An ITW Company

Solutions Guide

DISINFECTANTS AND CLEANERS

TexQ™ | Bru-Clean TbC™ | TexCide™ | Hydrogen Peroxide | IPA | Ethanol

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50 YEARS OF CLEAN

About Texwipe

Texwipe's commitment to innovation, leadership and quality in cleanroom consumable products spans more than fifty years. We invest in technology to respond to our customers' evolving needs in contamination control.

Texwipe's Core Values are:

- **Innovation** - Texwipe pioneers the latest technologies to provide innovation in contamination control products and processes.
- **Quality** - Texwipe product quality is maintained by the most advanced testing and quality control standards in the industry.
- **Technology Leadership** - Texwipe leads our industry in testing metrology, methods and processes to reduce contamination.

Throughout Texwipe's global operations, we support our customers with products designed to exceed the requirements for cleanroom consumable products. Our highly professional team will help you select and develop products for any critical environment application.

Texwipe®
An ITW Company

texwipe.com

How to Choose

Disinfectants/Cleaners Differentiation

	Disinfectants			Cleaners		
	 TexQ	 Bru-Clean	 TexCide	 TexP	 70% IPA	 70% Ethanol
Properties						
0.2 micron filtered	✓	n/a	✓	✓	✓	✓
One-step cleaner/disinfectant	✓		✓			
Biodegradable		✓	✓	✓		
EPA-registered disinfectant	✓	✓	✓			
No dyes or fragrances	✓		✓			
No Volatile Organic Compounds (VOC)	✓*		0.5% at use concentrate	✓		
Non-flammable	✓	✓	✓	✓		
Shelf life, years	2	2	1	3	2-3	2
USP-compliant components (made with)	n/a	n/a	n/a	✓	✓	✓
Applications/Agents						
Cleaning	✓		✓	✓	✓	✓
Disinfectant rotation program use	✓	✓	✓	✓	✓	✓
Gamma-irradiated available	✓				✓	✓
Needs rinse	✓	✓				
Residue removal agent				✓	✓	✓
Testing						
Endotoxin tested	✓				✓	✓
Sterile validated	✓				✓	✓
Lot traceable	✓	✓	✓	✓	✓	✓
Solutions and Packaging						
Ready-to-use solution	✓	tablet		✓	✓	✓
Concentrate available	✓	tablet	✓			
Dilution rate for the concentrate solution	2 oz / gallon	1 tablet / gallon	4 oz / gallon			
Double-bagged bottle/container	✓			✓	✓	✓

**Low levels of VOC materials are in the product: the quat mixture (860 ppm), EDTA (300 ppm) and nonionic surfactant (400 ppm).*


TX 650
TexQ Disinfectant
GAMMA IRRADIATED
Cleaner · Mildewstat
Fungicide · Sanitizer · Virucide
For Hospitals and Institutional Use
ACTIVE INGREDIENTS:
Octyl Decyl Dimethyl Ammonium Chloride
Didecyl Dimethyl Ammonium Chloride
Dioctyl Dimethyl Ammonium Chloride
Alkyl (C14, 50%; C12, 40%; C16, 10%)
dimethyl benzyl ammonium chloride
INERT INGREDIENTS:
TOTAL
KEEP OUT OF REACH OF CHILDREN
CAUTION
See Back Panel for Additional Precautionary
and First Aid Statements

61 KILL CLAIMS
61
TEXQ DISINFECTANT

TexQ® Disinfectant

Section Contents

TexQ Disinfectant

Why TexQ?

TexQ® Disinfectant is the latest generation of quaternary ammonium compounds (QACs), EPA registered one-step cleaner and disinfectant. It is effective against a broad spectrum of bacteria, viruses and fungi, and inhibits the growth of mold and mildew and their odors when used as directed.

TexQ® Disinfectant is available as: Ready-to-Use spray for small areas (equipment, surfaces) (TX650) and Concentrate solution for large area disinfection (floors, walls) (TX651). Both solutions are 0.2 µm filtered. TexQ® TX650 is gamma-irradiated to a Sterility Assurance Level of 10^{-6} according to AAMI Guidelines.

The TexQ Advantage

- **61 Kill Claims** – Proven efficacy against the most common cleanroom bacteria, viruses and fungi including MRSA, Pseudomonas, H5N1 and HIV-1 at 3 or 10 minutes contact time.
- **Aspergillus Niger Kill Claim** – Most common fungus for clean areas.
- **Complex Formulation** – Excellent cleaning and disinfecting properties for uniform and complete disinfection of surface.
- **One step cleaner/disinfectant** – Cleans and disinfects in one step. Saves additional costs for the cleaner. Saves time and labor. Easy to use.
- **TX650 is Gamma-irradiated** – Compliant with aseptic environment requirements and USP <797>.
- **Free of dyes and fragrance** – No respiratory irritation – safe for the staff, no additional contamination from the vapors.
- **Functional use label on bottle** – Easy documentation and usage control, record the date opened and operator initials.
- **EPA registered** – Kill claims provide assurance of efficacy of disinfection.
- **Hazardous drugs removal** – TX650 is a part of the Hazardous drugs cleaning protocol* (USP <800>).

Industries

- Biotechnology
- Hospitals, Pharmacies
- USP <797>, USP <800>
- Medical device manufacturing facilities
- Pharmaceutical manufacturing facilities
- Veterinary clinics and laboratories
- Food processing facilities

Applications

- Cleaning and disinfecting hard, non-porous surfaces
- Cleaning and disinfecting small surfaces (tables, equipment, isolators, hoods)
- Cleaning and disinfecting large surfaces (floors, walls, ceilings)
- Recommended for use as part of a disinfectant rotation program
- TX650 is recommended for use as part of Texwipe's hazardous drugs cleaning protocol*

TexQ Products

Number		Description	Packaging
TX650		TexQ Disinfectant Ready-to-Use (RTU) Gamma Irradiated 22 oz. Trigger Spray	**TX650:** 12 bottles/case
TX651		TexQ Disinfectant Concentrate One Gallon	4 bottles/case beaker included

** Hazardous drugs cleaning protocol is available upon request*

Made in **USA**

TexQ Kill Claims

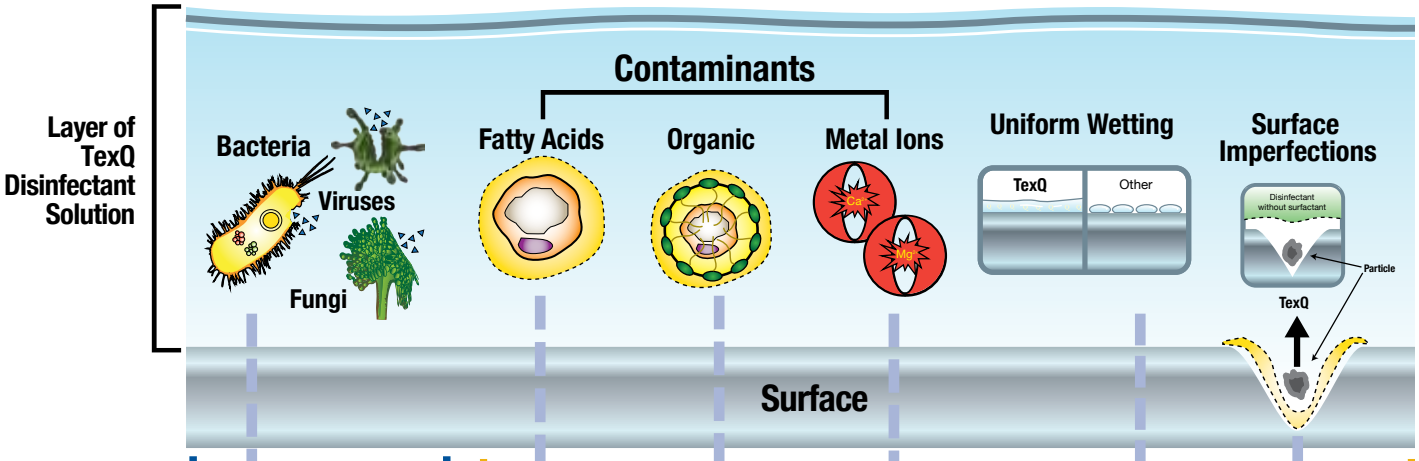
	TexQ TX650 / TX651 Contact Time in Minutes*
Bacteria	
Community Associated Methicillin Resistant Staphylococcus Aureus	10
Methicillin Resistant Staphylococcus Aureus	10
Burkholderia cepacia	10
Campolybacter jejuni	10
Corynebacterium ammoniagenes	10
Enterobacter aerogenes	3
Enterobacter cloacae	10
Enterobacteriacia w/extended beta lactamase resistance	10
Enterococcus faecalis	10
Enterococcus faecium *(Vancomycin resistant)*	10
Escherichia coli	10
Escherichia coli *(Antibiotic resistant)*	10
Escherichia coli 0157:H7	10
Klebsiella pneumoniae	3
Klebsiella pneumoniae *(Antibiotic resistant)*	10
Legionella pneumophila	10
Listeria monocytongenes	10
Proteus mirabilis	10
Proteus vulgaris	10
Pseudomonas aeruginosa	10
Pseudomonas aeruginosa *(Antibiotic resistant)*	10
Salmonella enterica	10
Salmonella schottmuelleri	10
Salmonella typhi	10
Serratia marcescens	10
Shigella dysenteriae	10
Shigella flexneri	10
Shigella sonnei	10
Staphylococcus aureus	3
Staphylococcus epidermidis *(Antibiotic resistant)*	10
Streptococcus pyogenes	10
Vibrio cholerae	10
Xanthomonas axonopodis pv. Citri	10
Xanthomonas campestris pv. Vesicatoria	10

	TexQ TX650 / TX651 Contact Time in Minutes*
Viruses	
Avian influenza A Virus *(H5N1)*	10
Avian Influenza/Turkey/Wisconsin	10
Bovine Viral Diarrheal Virus *(BVDV)*	10
Canine Coronavirus	10
Canine Distemper	10
Duck Hepatitis B Virus	10
Hantavirus	10
Hepatitis B virus *(HBV)*	10
Hepatitis C virus *(HCV)*	10
Herpes Simplex Types 1	10
Herpes Simplex Types 2	10
HIV-1 *(AIDS virus)*	2
Human Coronavirus	10
Infectious Bovine Rhinotracheitis virus *(IBR)*	10
Influenza Type A / Brazil	10
Influenza A H1N1 Virus	10
Newcastle Disease virus	10
Porcine Respiratory & Reproductive Syndrome Virus *(PRRSV)*	10
Porcine Rotavirus	10
Pseudorabies virus *(Rabies Virus)*	10
Respiratory Syncytial *(RSV)*	10
Transmissible Gastroenteritis *(TGE)*	10
Vaccinia virus *(Pox Virus)*	10
Fungi	
Aspergillus niger	10
Candida albicans	10
Dactylium dendroides	10
Trichophyton mentagrophytes *(Athlete's Foot Fungus)*	10

TexQ Disinfectant

How Does TexQ Work?

Disinfection + Cleaning with One Product



Powerful TexQ components ***disrupt the wall membranes*** of bacteria, viruses and fungi leaving the surface disinfected.

TexQ ***neutralizes fatty acids and removes*** them from the surface.

TexQ ***suspends organic contaminants in the solution*** making them easily removed.

TexQ ***traps metal ions*** such as calcium and magnesium for their easy removal.

TexQ Disinfectant ensures uniform application to entire surface for ***uniform cleaning and disinfection.***

TexQ Disinfectant ***removes particles*** from surface imperfections.

TexQ Disinfectant is safe on following surfaces:

- Glass, glazed porcelain, glazed ceramic
- Laminated surfaces, Formica®
- Stainless steel, aluminum, metal
- Plexiglass®
- Plastic (such as polycarbonate, polyvinylchloride, polystyrene or polypropylene)
- Vinyl and plastic upholstery
- Sealed granite, sealed marble, sealed limestone, sealed slate, sealed stone
- Sealed terra cotta, sealed terrazzo, vanity tops
- Chrome and vinyl
- Enameled surfaces, painted/finished woodwork
- Washable wallpaper
- External Lenses Vision correction including eyeglasses, protective eyewear, goggles, light lens covers, optical instruments/implements. (Not for use on contact lenses.)

One-Step Cleaning & Disinfection

Save a step with TexQ!

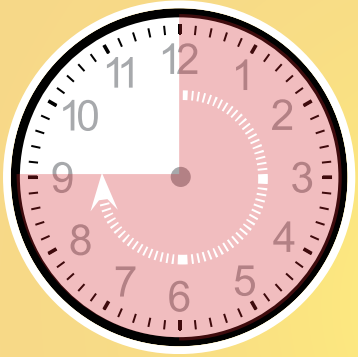
The common cleaning and disinfecting practice includes three steps:

1. **Pre-cleaning step** – using a cleaning solution for soil and organic contamination removal.
2. **Disinfectant step** – using a disinfectant solution for antibacterial action.
3. **Residue removal step** – for the disinfectant's left-over removal.

TexQ disinfectant is a one-step disinfectant. That means it **combines the Cleaning and Disinfecting properties** in its complete, chemically balanced formulation. TexQ's **Cleaning Properties** mean that it **removes soil and organic contamination** (by neutralizing fatty acids, suspending organic contaminants and trapping metal ions) from the surface. Its **Disinfecting Properties** provide **antibacterial action** by disrupting the cell walls of bacteria, viruses and fungi.

Just one application of TexQ disinfectant not only disinfects the surface but also removes soil, organic and other contamination combining the "Pre-cleaning step" and the "Disinfection step" in only one easy step*. The last step remains the "Residue removal" step**. **Having just two steps in the cleaning/disinfection protocol (instead of three) makes the use of TexQ one-step disinfectant solution easier and provides time and labor savings for the operator.**

Common steps



1 Cleaning
Apply a cleaning solution

+

2 Disinfection
Apply a disinfectant

+

3 Residue Removal
Remove residue

Cleaning & Disinfecting in One Step

1 Cleaning & Disinfection
Apply TexQ One-Step Disinfectant only

+

2 Residue Removal
Remove residue with 70% IPA or Hydrogen Peroxide Solution with a dry wiper or pre-wet 70% IPA wiper

** For heavily soiled areas or when visible soil is present, the Pre-cleaning step using a cleaning solution is recommended before any disinfectant application, including one-step disinfectants.*

*** For non-product contact surfaces (such as walls, floors, ceilings etc) the frequency of the residue removal step may be reduced to once a week/month/two months, according to the approved facility's cleaning procedure.*

TexQ Disinfectant

TexQ Comparison to Other Disinfectant Classes

	DISINFECTANTS			
	TexQ	Bleach	Phenolics	Ethanol/Isopropanol
Effective pH	8-11	10-13	1.5 - 12.5	6-8
Cleaning	Good	Poor	Fair*	Poor
Need Precleaning Step	No	Yes	No*	No
Odor	Low	High	High	High
Effectiveness Affected by pH	No	Yes	Yes	No
Organic Soil Tolerance	Good	Poor	Good*	Medium
Hard Water Tolerance	Good	Good	Good	Good
Surface Compatibility	High	Medium	Medium	High
Corrosiveness	Low	High	Medium	Low
Toxicity Category**	III	I	I or II	IV
Skin Irritation	Low	High	Medium	Low
Respiratory Irritation	No	High	High	High
Residual Activity	Yes	No	Yes	No
Need Rinse	Yes	Yes	Yes	No
Stability / Shelf Life	Very Good	Very Poor	Good	Good
Cost in Use	Low	Low	Medium	High

*Depends on product

**EPA Toxicity Categories Require These Warnings:

Signal Word	Category	Oral Lethal Dose[1]
DANGER, POISON (Skull and crossbones)	I Highly toxic	A few drops to a teaspoonful
WARNING	II Moderately toxic	Over a teaspoonful to one ounce
CAUTION	III Slightly toxic	Over one ounce to one pint
CAUTION	IV Relatively non-toxic	Over one pint to one pound

[1]Based on a 150-pound person

Shelf Life

For TX650 TexQ Ready-to-use (RTU):

- 2 years (the expiration date is indicated on the product label), even after opening the bottle or spraying from the bottle.

For TX651 TexQ concentrate:

- 2 years (the expiration date is indicated on the product label), even after opening the bottle.
- If the concentrate is diluted to RTU in an open container (or bucket), the solution must be used within 24 hours. If, during use, it gets diluted or visibly dirty, it should be replaced.
- If the concentrate is diluted to RTU and transferred to a spray bottle, it is good for up to 2 years (until the expiration date listed on the original TX651 bottle).

Disposal

For TX650 and TX651: Dispose of contents and container in accordance with all local, regional, national and international regulations (see Safety Data Sheet, section 13.)

TX651 TexQ Disinfectant is a concentrated Hospital Use disinfectant effective against a broad-spectrum of bacteria, viruses and fungi, plus eliminates odor-causing bacteria when used as directed. It is available in 1 gallon bottles and features the same properties as the ready-to-use (TX650) spray bottles: 0.2 µm filtered and double-bagged for easy introduction into aseptic areas.

TexQ Disinfectant Concentrate formulation meets AOAC Use – Dilution Test Standards for hospital disinfectants and is highly recommended for use in disinfectant rotation programs. At two ounces per gallon of water dilution rate it is proven to be effective against 32 bacteria, 21 viruses and 4 fungi in the presence of organic soil. Treated surfaces must remain wet for 10 minutes. Use this product on large washable, hard, non-porous non-food contact surfaces responsible for cross-contamination such as floors, walls, ceilings, exterior surfaces of the equipment etc.

How to Mix

Mixing TexQ Disinfectant from TX651 is a simple process: Step 1 – start with 1 gallon of water in the bucket of your choice (we recommend Texwipe Buckets TX7057 Stainless Steel model). Step 2 – Using the included beaker, add 2 ounces of TX651 to the water in the bucket. Step 3 – Mix the 2 ounces of TX651 with the water for 1 minute. TexQ is now mixed and ready to use! *The TexQ concentrate dilution rate is 1:64, or 2 oz per gallon of water.*

Step 1

Add 1 gallon of water to bucket.

Step 2

Add 2 ounces of TexQ concentrate to the bucket and mix.

Step 3

TexQ is ready to use.

Ideal Buckets for TexQ, *See our Mops Brochure online (this is a link) at texwipe.com.*

Bru-Clean TbC™

The Bleach Alternative in Tablet Form

Section Contents

Bru-Clean TbC™

Bru-Clean TbC™ is an ideal alternative to liquid bleach that comes in a "just add water" premeasured disinfectant tablet. Bru-Clean TbC™ is designed to provide effective cleaning, deodorizing and disinfection in areas where controlling cross contamination hazards are of the highest concern.

Add 1 Bru-Clean TbC tablet to 1 gallon of water to create a powerful disinfectant with 31 kills claims against a broad array of pathogens including MRSA, E.coli and Salmonella.

The active ingredient, sodium dichloroisocyanurate (NaDCC), is more stable than bleach (sodium hypochlorite) and provides consistent strength produced at point of use, is neutral in pH and is biodegradable.

Bru-Clean TbC meets EPA requirements for hard, inanimate surface disinfectant claims for hospital and medical environments. It is also recommended for use with veterinary, biologics and pharmaceutical manufacturing facilities.

The Bru-Clean Advantage

- **Convenient premeasured tablets** – Easy to use, transport and store. 270 tablets make 270 gallons of disinfectant.
- **Solution prepared at point-of-use** – Easily prepare a **fresh** solution whenever needed. Consistent concentration of daily prepared solution. Less odor than bleach.
- **Neutral pH** – Much less corrosive to metals than liquid bleach. Less hazardous for users.
- **Shelf life/stability of tablets** – Two years of active ingredient stable concentration in the tablet.
- **EPA registered disinfectant** – Registered kill claims provide the assurance of efficacy of disinfection for 32 microbes.
- **Functional use label on bottle** – Easily document the date opened and operator initials for usage control.

Applications

- Cleaning and disinfecting hard surfaces, such as stainless steel
- Disinfecting all work areas – equipment, hoods, carts, isolators, floor
- Can easily replace liquid bleach in all applications
- Recommended for use as part of a disinfectant rotation program

Industries

- Pharmaceutical manufacturing facilities
- Pharmacies
- Hospitals
- Medical device manufacturing facilities
- Biologics and Biotechnology
- Veterinary

Bru-Clean Products

Number		Description	Packaging
TX6466		Bru-Clean TbC™ Disinfectant Tablets	270 tablets/bottle – 2 bottles/case

Disinfectant Comparison: Bru-Clean vs Bleach

	Bru-Clean (TX6466)	Bleach
Effective pH	**5 - 6**	10 - 13
Packaging & Delivery	**Bulk packed tablets**	Concentrated solution
Use convenience	**Made at point-of-use**	Must be stored, diluted, mixed, and filtered
Stability	**Stable, fresh solution**	Degrades over time (lose 20% in 6 months)*
Shelf Life	**Tablet shelf life of two years**	One year
Odor	**Moderate**	Strong
Corrosion potential	**Low**	High
Hazard level: Eye	**Low Irritant**	High (Severe irritant or may cause damage)
Skin	**Low Irritant**	High (Severe irritant or may cause damage)
Respiratory system	**Irritant**	High (Severe irritant or may cause damage)
DOT Hazard Classification	**Not classified as hazardous**	Corrosive, Class 8 at 12% strength
Working concentration	**937 ppm**	2,500 – 5,000 ppm

Sodium Hypochlorite – Bleach

$NaOCl \rightleftharpoons Na^+ + OCl^-$

$OCl^- + H^+ \rightleftharpoons HOCl$ Hypochlorous Acid

Sodium dichloroisocyanurate – NaDCC

Dry tablet, when constituted with water (H_2O)

$[NaCl_2(NCO)_3] + H_2O \rightleftharpoons 2\ HOCl + NaH_2(NCO)_3$

More HOCl is released from NaDCC at pH 5-6 than from sodium hypochlorite (liquid bleach) at pH 9.5

The active ingredient, sodium dichloroisocyanurate (NaDCC), is:

- More stable than bleach (sodium hypochlorite) and provides consistent strength produced at point of use
- Neutral in pH - less corrosive on surfaces than liquid bleach*
- Biodegradable – safe for the environment

Bru-Clean TbC™

Kill Claims

Bacteria	Bru-Clean TbC TX6466 Contact time (minutes)
Actinobacillus pleuropneumoniae	10
Brachyspira (Treponema/ Serpuline) hyodysenteriae	10
Clostridium perfringes USDA	10
Enterococcus faecalis Vancomycin Resistant	10
Escherichia coli O157:H7	10
Gumboro disease	10
Klebsiella pneumoniae	10
Mycobacterium tuberculosis var. bovis	10
Pseudomonas aeruginosa	10
Salmonella enterica	10
Staphylococcus aureus	10
Staphylococcus aureus (MRSA)	10
Staphylococcus aureus (GRSA)	10
Staphylococcus epidermidis	10
Streptococcus dysgalactiae	10
Trichophyton mentagrophytes	10

Viruses	Bru-Clean TbC TX6466 Contact time (minutes)
Adenovirus Type 2	10
Avian Influenza Type A	10
Canine distemper virus	10
Canine Parvovirus	10
Feline calicivirus	10
Hepatitis A virus (HAV)	10
Herpes Simplex Type 1	10
HIV-1 (AIDS virus)	10
Infectious canine hepatitis	10
Newcastle disease virus	10
Norovirus	10
Poliovirus type 1	10
Porcine parvovirus	10
Pseudorabies	10
Runting & Stunging virus (tenosynovitis)	10
Fungi	
Trichophyton mentagrophytes	10

Use concentration of 1 tablet per gallon.

How to Mix

According to the AOAC Use Dilution Test method, this product is bactericidal, virucidal and fungicidal with 32 registered kill claims. Treated surfaces must remain wet for 10 minutes. Concentration of available chlorine – 937 ppm (1 tablet per gallon of water dilution rate).

Step 1 Add 1 gallon of water to bucket.

Step 2 Add one tablet then wait 2 to 3 minutes while it fizzes & dissolves.

Step 3 Mix and your disinfectant solution is ready to use!

Ideal Buckets for Bru-Clean TbC,
See our Mops Brochure online (this is a link) at texwipe.com.


TX® 690
TexCide™
Concentrated broad-spectrum disinfectant/virucide* with efficacy against C. diff spores.
Effective one-step disinfectant-cleaner for use in hospitals and other healthcare settings.
No rinsing • Non-flammable
ACTIVE INGREDIENTS:
Hydrogen Peroxide..... 27.3%
Peroxyacetic Acid..... 5.9%
OTHER INGREDIENTS:..... 66.8%
TOTAL:..... 100.0%
KEEP OUT OF REACH OF CHILDREN
DANGER PELIGRO
See side panel for additional precautionary statements.
Texwipe
Made in the USA
NET CONTENTS: 1 pt. (16 fl. oz.) (473 ml)

TexCide™

Section Contents

TexCide™ TX690

Why TexCide?

TexCide™ TX690 is an effective EPA registered 5.9% peroxyacetic acid/27.3% hydrogen peroxide-based sporicidal disinfectant with fast efficacy against *Clostridium difficile* (C. diff) spores.

TexCide is a concentrated, broad-spectrum, one-step disinfectant cleaner and deodorizer effective against spores, bacteria, viruses and fungi just within a two (2) minute contact time. The 8 oz. (250 ml) measuring beaker makes the dilution process easier.

Features & Benefits

- **Fast sporicidal action** – Kills Clostridium difficile spores in 2 minutes.*
- **Bactericidal, virucidal, and fungicidal** with a contact time of 2-5 minutes.*
- **One-step disinfectant and cleaner** – cleans, disinfects and deodorizes in one labor saving step.
- **No pre-cleaning step is required **** – effective in the presence of 5% organic serum load. Saves additional costs incurred from a pre-cleaning step (cleaning ingredient, time, etc.).
- **EPA registered.**
- **Compatible with stainless steel** and other 11 surfaces (see next page).
- **No special water requirements for dilution** – effective in water up to 400 ppm hardness.
- **No rinsing required** when used on floors, walls and ceilings.
- **Convenient to use** – 16 oz. bottle of concentrate makes 4 gallons of use solution.
- **Fragrance free.**
- **Non-flammable.**
- **Measuring beaker included** – makes the dilution process easier.
- **Lot traceable.**

**at the dilution rate 4 oz. per gallon of water (see the kill claims on reverse)*

***if no visible soil is present*

Industries

- Pharmaceutical
- Biotechnology
- Hospitals and Healthcare facilities
- Medical Device
- Laboratories
- Pharmacies and Compounding Pharmacies
- Veterinary clinics

Applications

- Cleaning and disinfecting hard, non-porous surfaces
- Cleaning and disinfecting small surfaces (tables, equipment, isolators, hoods)
- Cleaning and disinfecting large surfaces (floors, walls, ceilings)
- Recommended for use as part of a disinfectant rotation program as the sporicidal agent

TexQ Products

Number		Description	Packaging
TX690		TexCide™ Concentrate	16 oz (473 ml) concentrate, 12 bottles/case (beaker included)

*Made in **USA***

TexCide Kill Claims

	TexCide TX690 Contact Time in Minutes*
Sporicidal kill claims	
Clostridium difficile	2
Bactericidal kill claims	
Acinetobacter baumannii	2
Bordetella pertussis	2
Enterococcus faecalis Vancomycin Resistant (VRE)	2
Escherichia coli	2
Escherichia coli with beta-lactamase resistance (ESBL)	2
Klebsiella pneumoniae	2
Klebsiella pneumoniae Carbapenem Resistant	2
Proteus mirabilis	2
Pseudomonas aeruginosa	2
Salmonella enterica	2
Staphylococcus aureus	2
Staphylococcus aureus Methicillin Resistant (MRSA)	2
Staphylococcus aureus Community Acquired Methicillin Resistant (CA-MRSA)	2
Staphylococcus aureus Vancomycin Intermediate Resistant (VISA)	2
Streptococcus pneumoniae	2
Streptococcus pyogenes	2

	TexCide TX690 Contact Time in Minutes*
Virucidal kill claims	
Adenovirus Type 5	2
Canine Parvovirus (CPV)	5
Hepatitis B Virus (HBV)	5
Hepatitis C Virus (HCV)	5
Herpes Simplex Virus Type 1	2
Herpes Simplex Virus Type 2	2
Human Immunodeficiency Virus Type 1 (HIV-1)	2
Influenza A Virus	2
Murine Norovirus (MNV-1)	2
Norovirus	2
Respiratory Syncytial Virus (RSV)	2
Rhinovirus Type 37	2
Rotavirus	2
Vaccinia Virus	2
Fungicidal kill claims	
Candida albicans	2
Trichophyton mentagrophytes (Athlete's foot fungus) (a cause of Ringworm)	2
TOTAL	33

†Tested according to the AOAC Use Dilution method on hard, non-porous surfaces, at 4 ounces per gallon of 400 ppm hard water (1844 ppm active PAA) in the presence of 5% organic serum.

Typical Properties

- Water solubility — Complete
- Physical form — Liquid
- Color — Colorless
- pH (25°C) — 2.65
- Dilution recommendation – 4 oz. per gallon of water

Surface compatibility

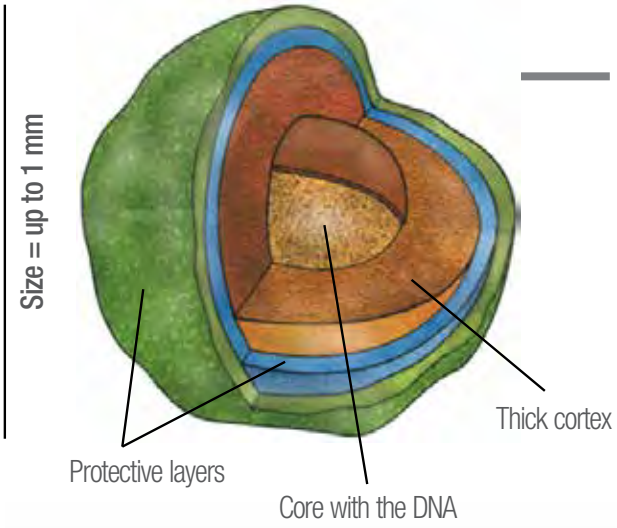
- Finished floors
- Enameled surfaces
- Desks
- Glass
- Glazed porcelain
- Medical equipment surfaces
- Plastic & painted surfaces
- Stainless steel
- Vinyl
- Aluminum
- Chrome
- Examination tables
- Glazed ceramic
- Laminated surfaces
- Workstations

Not recommended for use on

- Copper
- Brass
- Granite
- Marble
- Zinc
- Unsealed/uncoated marble or terrazzo floors

TexCide™ TX690

How does TexCide kill spores?



TexCide kills a spore in just 2 minutes!

Sporicidal action:

- TexCide's active ingredients kill the spore by disrupting its protective layers, thick cortex and the spore core.

Bactericidal, virucidal, fungicidal action:

- TexCide kills other bacteria, viruses and fungi in just 2 minutes!

A thick cortex and protective layers protect the spore from UV light, heat and chemicals

UV light


Heat >105°F (>40°C)


Common chemicals

PRODUCT	TexCide TX690	Spor-Klenz Concentrate Sterilant	Spor-Klenz RTU	Decon Spore 200 Plus	SporGon	Peridox RTU
RTU or Concentrate	Concentrate	Concentrate	RTU	Concentrate	RTU	RTU
Sporicidal contact time, in minutes	**2**	**No spore kill claim**	**30**	**3**	**180**	**3**
Contact time, min.						
Bactericidal	2	10	10	10	3-15	2-5
Virucidal	2	No kill claims	10	10	5	2-3
Fungicidal	2	No kill claims	5	No kill claims	5	1
Total number of kill claims	**33**	**2**	**15**	**10**	**10**	**51**
Product formulation	Hydrogen Peroxide - 27.3% Peroxyacetic acid - 5.9%	Hydrogen Peroxide - 22% Peroxyacetic acid - 4.5%	Hydrogen Peroxide - 1% Peroxyacetic acid - 0.08%	Hydrogen Peroxide - 27.5% Peroxyacetic acid - 5.8%	Hydrogen Peroxide - 7.35% Peroxyacetic acid - 0.23%	Hydrogen Peroxide - 4.4% Peroxyacetic acid - 0.23%
Available sizes	16 oz (12/case)	32 oz (4/case)	29 oz (4/case)	various	1 gallon (4/case)	32 oz (6/case)

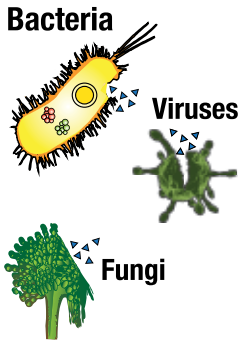
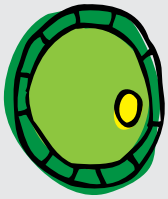
TexCide:

- has the **shortest sporicidal contact time** and one of the largest total number of kill claims vs the compared products
- the bactericidal, virucidal and fungicidal kill times are the same as the sporicidal kill time (2 min) – for **more efficient use of disinfection time**
- concentrated solution is more **cost effective** than the RTU

Products having no EPA-registered sporicidal kill claims:

- Spor-Klenz Concentrate (Steris)
- Accel Tb, Accel Concentrate (Contec)
- Steri-Perox (Veltek)
- Clorox Healthcare® Hydrogen Peroxide
- Cleaner Disinfectant (Clorox)
- Hypo-Chlor (Veltek)
- Sporicidin (Contec)

Texwipe's Cleaning Rotation Recommendations

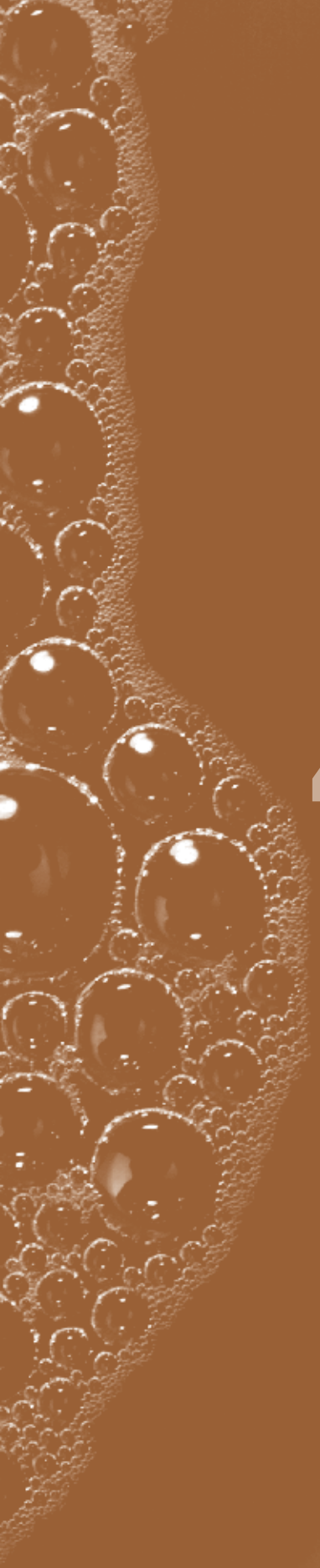
Microbe to be killed	Disinfectants to be used	How often to use	Remove disinfectant residues
 **Vegetative Bacteria, viruses, fungi**	**Bactericidal Disinfectants** • Quaternary Ammonium Compounds (QAC) *TexQ disinfectant*  and • Chlorine compound <5000 ppm *Bru-Clean TbC* 	**Use daily** (for example, at the beginning and/or at the end of the shift); **Change weekly** (for example, 1st week – use TexQ, 2nd week – use Bru-Clean TbC)	 **TexP** Hydrogen Peroxide Solution  **70% IPA** sterile or non-sterile
 **Bacterial Spores (C.Diff)**	**Sporicidal Disinfectants** • Hydrogen peroxide/peracetic acid *TexCide* 	Use once a week, or every 2 weeks (for example, on Fridays, at the end of the last shift)	

Dilution recommendations:

- 4 oz. of concentrate per gallon of water.

Use a full 16 oz bottle to make a 4 gallon bucket of use solution (without using the beaker):

1. Add 4 gallons of water to bucket
2. Empty a 16 oz bottle in the bucket and mix
3. Your sporicidal solution is ready



4%

7.5%

TexP™

Non-Sterile Hydrogen Peroxide

Section Contents

TexP

Hydrogen Peroxide, Non-Sterile

Texwipe's® TexP (hydrogen peroxide) cleaning solutions are developed for use with cleaning rotation cycles to maintain a clean environment. TexP offers no VOCs and is nonflammable, making it safer for your personnel and regulatory compliance.

TexP leaves no residue, making it ideal for residue removal with disinfectants such as TexQ, Bru-Clean TbC and other formulations. It offers a low toxicity profile and is noncorrosive on most surfaces. TexP is completely biodegradable, it completely decomposes into water and oxygen.

TexP is offered in two ready-to-use concentrations – 4% and 7.5% – and both are available in 16 oz. spray (suitable for small areas) and 1 gallon (ideal for large volume applications) bottles. All TexP products are individually lot-coded for ease of traceability and quality control.

Labeled in three languages (English, Spanish, French).

TexP Advantages

- **Convenient ready-to-use solutions** require no mixing or activating.
- **Nonflammable** – may be used in high flammability risk environments.
- **No VOCs** – reduces VOC regulatory and compliance concerns.
- **No residue,** may be used for disinfectant removal.
- **Safe for use** – low toxicity profile for staff and noncorrosive on most common surfaces.
- **Biodegradable** – completely decomposing into water and oxygen.

TexP Products

Solution	Number		Description	Packaging
4% hydrogen peroxide	**TX684**		4% hydrogen peroxide Ready-to-use Non-sterile solution	16 oz. spray bottle
	TX684G		4% hydrogen peroxide Ready-to-use Non-sterile solution	1 gallon bottle
7.5% hydrogen peroxide	**TX687**		7.5% hydrogen peroxide Ready-to-use Non-sterile solution	16 oz. spray bottle
	TX687G		7.5% hydrogen peroxide Ready-to-use Non-sterile solution	1 gallon bottle

4% and 7.5% Hydrogen Peroxide

Industries

- Pharmaceuticals
- Biologics and Biotechnology
- Medical Device
- Compounding Pharmacy
- Cosmetics
- Health Care
- Veterinary
- Food and Beverage
- Nutraceutical
- Microelectronics
- Semiconductor

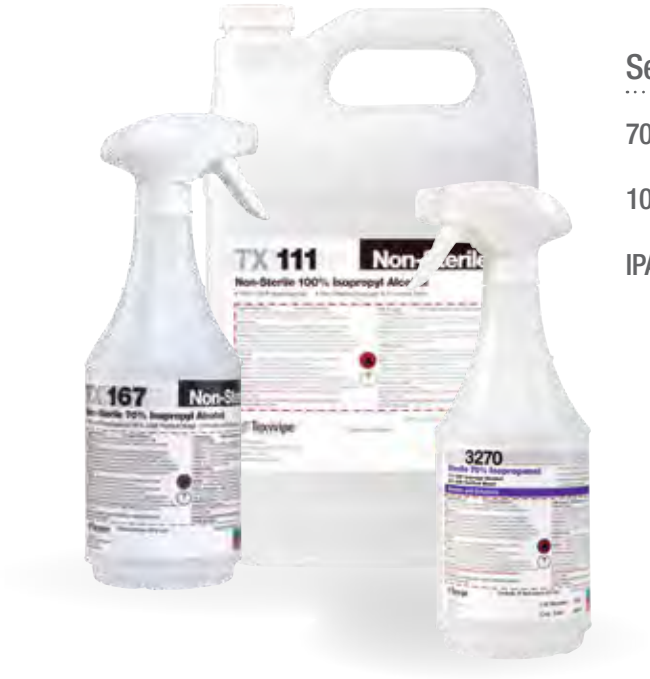
Applications

- Cleaning small (tables, equipment) surfaces
- Cleaning large (floors, walls, ceilings) surfaces
- Removing residues after disinfectant application


8270

IPA

Sterile & Non-Sterile Isopropyl Alcohol



Section Contents

IPA Solutions

70% and 100%

Available in both Sterile and Non-Sterile form, Texwipe's Isopropyl Alcohol Solutions are 0.2 micron filtered and filled into cleaned, double-bagged containers. Each bottle is lot coded with an expiration date for easy record keeping.

The trigger spray bottles are fully assembled and ready to use - no unpacking, handling or attaching a separate sprayhead is required. Choose a stream delivery for precise application or coarse spray for larger area application. Gallon containers are also available.

Features & Benefits

- 0.2 µm filtered Isopropanol (Isopropyl Alcohol) – removes many surface contaminants. (70% is USP-grade and 100% is semiconductor-grade)
- Evaporates and leaves extremely low residue
- Adjustable trigger spray – allows the liquid to be dispensed as either a jet or spray.
- Double-bagged for easy introduction into clean environment
- Meets FDA guideline for medical device bacterial endotoxin limit of not more than 20 EU/device
- Fully lot traceable
- Eliminates mixing, filtration, processing and QC expense of in-house production of sterile IPA

Sterility Assurance

- Gamma-irradiated to a sterility level of 10-6 with independent QC audits to ensure sterility
- Each lot tested for endotoxins
- Lot traceable
- Lot-specific information on each shipment simplifies record keeping:
  - » Certificate of Processing confirming radiation dosage
  - » Certificates of Compliance & Analysis

Applications

- Surface cleaning
- Residue removal after disinfectant application
- Use on gloved hands
- Wipe down for pass through to controlled environments
- Ideal for use with cleanroom wipers

70% IPA Solutions

Texwipe's 70% Isopropanol contains 70% by volume USP-grade Isopropanol (Isopropyl Alcohol) and 30% USP-purified water.

Industries

- Pharmaceuticals
- Biologics
- Medical Device
- Compounding Pharmacy

100% IPA Solutions

Non-Sterile 100% Isopropyl Alcohol is made with semiconductor-grade Isopropanol.

Industries

- Microelectronics

IPA Products

IPA %	Sterile	Number		Description	Packaging
70% Isopropyl Alcohol					
70%	●	**TX8270**		70% Isopropyl Alcohol Trigger Spray 8 fluid ounces (237 mL) Sterile	12 polybottles per case
70%	●	**TX3270** **TX3274**		70% Isopropyl Alcohol Trigger Spray 16 fluid ounces (473 mL) Sterile	**TX3270:** 12 bottles per case **TX3274:** 4 bottles per case
70%		**TX167**		70% Isopropyl Alcohol Trigger Spray 16 fluid ounces (473 mL) Non-Sterile	12 bottles per case
70%	●	**TX3273**		70% Isopropyl Alcohol Trigger Spray 32 oz. spray bottle (946 mL) Sterile	12 bottles per case
70%	●	**TX3290**		70% Isopropyl Alcohol 1 gallon (3.8 liters) Sterile	4 bottles per case
70%		**TX117**		70% Isopropyl Alcohol 1 gallon (3.8 liters) Non-Sterile	4 bottles per case
100% Isopropyl Alcohol					
100%		**TX161**		100% Isopropyl Alcohol 1 gallon (3.8 liters) Non-Sterile	4 bottles per case
100%		**TX111**		100% Isopropyl Alcohol Trigger Spray 16 fluid ounces (473 mL) Non-Sterile	12 bottles per case

EToH

Denatured 70% Ethanol

70% Denatured Ethanol

Sterile, ready-to-use 70% denatured ethanol (EtOH) solution designed especially for cleanroom use. Filtered to 0.2tµm, individually double-bagged and gamma-irradiated to ensure sterility. Made using USP components and packaged in a ISO Class 5 cleanroom.

Features & Benefits

- **Filled in an ISO Class 5 environment**; 0.2µm filtered
- **Individually double bagged and gamma irradiated** to a Sterility Assurance Level of 10^{-6} with independent QC audits to ensure sterility
- **Evaporates** leaving extremely low residue
- **Adjustable trigger spray** which allows the liquid to be dispensed as either a jet or spray
- **Fully lot traceable.** Each lot tested for endotoxins
- **Each shipment is supported by documentation:** Certificate of Irradiation, Certificate of Compliance and Analysis
- **MSDS and Sterility Validation** documents available

Industries

- Microelectronics
- Biologics
- Pharmaceuticals
- Semiconductor
- Medical Device
- Compounding Pharmacies

Applications

- Surface cleaning and residue removal purposes
- Use on gloved hands in sterile suites
- Wipe down for pass through to controlled environments
- Ideally suited for use with sterile cleanroom wipers

Sterility Assurance

- Gamma-irradiated to a sterility level of 10-6 with independent QC audits to ensure sterility
- Each lot tested for endotoxins
- Lot traceable
- Lot-specific information on each shipment simplifies record keeping:
  - » Certificate of Processing confirming radiation dosage
  - » Certificates of Compliance & Analysis

70% Ethanol Products

Number	Description		Packaging
Sterile			
TX3267		Sterile 70% Denatured Ethanol	16 oz. trigger spray bottle (473 mL) / 12 polybottles per case
TX3265		Sterile 70% Denatured Ethanol	32 oz. trigger spray bottle (946 mL) / 12 polybottles per case

Made in **USA**

CrushTube™ Swab

91% IPA / 9%DIW

CrushTube™ Swab

Texwipe's CrushTube system includes a 100% polyester (hydroentangled) nonwoven material head attached to an internal vial containing 91% IPA / 9% DIW solution, which is enclosed in a protective casing.

When the internal vial is crushed, the head becomes saturated with the 91% IPA / 9% DIW solution for point-of-use application.

Individually packaged in cleanroom compatible material. Lot coded for traceability and quality control.

Features & Benefits

- **IPA solution is separated from head until activated**
- **Gently crush** the vial to release the IPA and saturate the brush/tip
- **Precision spot cleaning**, no extra container of solvent needed
- **Individually packaged to minimize storage need**, easy to transport and use

Applications

- Solvent cleaning and maintaining of ion emitter tips
- Cleaning of grooves, tracks, slots and other small spaces
- Removing adhesive buildup
- Solvent cleaning sensitive surfaces such as optical assemblies

Industries

- Automotive
- Biologics
- Food Manufacturing
- Microelectronics
- Pharmaceuticals
- Semiconductor

CrushTube Products

Number		Description	Packaging
TX726		CrushTube™	50 swabs/box; 10 boxes/case

For More Swab Solutions, *See our Swabs Brochure online (this is a link) at texwipe.com.*

APPENDIX

Section Contents

Disinfectants Classification

	Isopropyl Alcohol	Chlorine Compounds, Bleach Sodium Hypochlorite 5.25% (bleach concentrate)	Phenolics	Quaternary Ammonium Compounds (QACs)	Oxidizing Disinfectants, Hydrogen peroxide
Description	Variable activity against some bacterial and fungal species. Bactericidal disinfectant. 70% IPA is proved to be the most effective concentration.	Bactericidal (kills bacteria, viruses and fungi) at <5000ppm Sodium Hypochlorite. Sporicidal (kills spores) at >5000ppm Sodium Hypochlorite.	Bactericidal disinfectant (kills bacteria, viruses, fungi), Tuberculocidal.	Bactericidal disinfectant (kills bacteria, viruses and fungi). Some products are Tuberculocidal.	This group includes oxygen-releasing compounds (peroxygens) such as peracetic acid and hydrogen peroxide. Bactericidal (kills bacteria, viruses, fungi), Tuberculocidal. Sporicidal (kills spores).
Pre-cleaning Needed	Surfaces must be pre-cleaned.	Surfaces must be pre-cleaned.	Surfaces must be pre-cleaned. Some products are registered as one step disinfectant cleaners.	Product specific. Some products registered as one-step disinfectant cleaners.	Product specific. Surfaces must be pre-cleaned, depending on formulation.
Advantages	• Quick evaporation • Removes many surface contaminants • Removes residual disinfectant • Leaves extremely low residue • Can be a good general use disinfectant • Compatibility combined with other disinfectants (quaternaries, phenolics) • No rinse required	• The same product can be used for routine and special event tasks, by changing the concentration • Relatively quick microbial kill • May be used on food preparation surfaces requiring a surface rinse depending on bleach concentration • Can be Tuberculocidal and Sporicidal with increased concentration • Some products are Tuberculocidal	• Mostly presented in concentrate formulations, need to be mixed to make the ready-to-use solution • Some products are Tuberculocidal • Effective over large pH range • Some products are one-step disinfectants cleaners	• One-step formulations contain a detergent to help loosen soil, no pre-clean step needed • Colorless, odorless (but act as deodorizers) • Less corrosive • May be used on food preparation surfaces (need rinse) • Effective at temperatures up to 212°F	• Hydrogen Peroxide is non-corrosive in diluted form but is corrosive in combination with peracetic acid • No rinsing required • Some products are odorless • Clear and colorless, thereby avoiding surface staining • Fast, broad spectrum activity, Sporicidal • Can be safer for personnel (less toxic) depending on concentration
Disadvantages	• Poor cleaner (does not contain detergents) • Limited contact time, not sufficient for broad range killing, evaporates quickly • VOC emissions • Flammable, not to be used near a flame • Not active against certain types of viruses • Low toxicity but an eye irritant	• Toxic. May damage floor finishes, carpets, clothing and other fibers when used in higher concentrations • Has an unpleasant odor • Must be stored separately from ammonia and flammable products • Rinsing is required • Corrodes metals such as stainless, aluminum • Increase in alkalinity decreases bactericidal properties • Eye, skin, and respiratory irritant	• Considered a persistent bio accumulative toxin by EPA • Disposal restrictions in some states. Check state and local regulations • Not for use on food or food utensils • May damage floor finishes and other surfaces • Unpleasant odor • Effectiveness reduced by alkaline pH or natural soap • Prolonged contact deteriorates rubber • Can cause skin and eye irritation • Corrosive & toxic	• Ineffective against bacterial spores, TBC, some viruses • Effectiveness influenced by hard water • RTU formulations are non-irritating to skin but avoid skin or eye contact; toxic • Neutralized by anionic soap (common) and effectiveness reduced by organic material • Pre-rinse may be required when rotating disinfectants • Rinsing is required	• Rinsing is required where direct skin or oral contact can occur • Corrosive to soft metals • Pre-cleaning step is required • Temperature and light sensitive • Pungent odor (vinegar) • Pure Hydrogen Peroxide formulations do not require rinse
CDC Disinfection Level	Intermediate	Intermediate Level Disinfectant	Some are intermediate some are low level noted on label	Low Level Disinfectant	Product Specific. Low, Intermediate or High Level Disinfectant (depends on concentration and exposure time).
EPA Toxicity Category (See chart below)	Category IV	Category I	Category I or II	Category III	Category III or IV, product specific.
Storage	Stable in storage. Keep away from oxidizing agents, heat and flames.	If used for disinfecting purposes, bleach should not be stored longer than 3 months. When mixed with water the solution is only effective as a disinfectant for 24 hours. The available chlorine level (NaOCl) must be monitored.	Stable in storage. Flammable if in aerosol form.	Stable in storage.	Stable in storage. Two year shelf life is available depending on concentration and formulation. Keep away from heat and light.

****EPA Toxicity Categories Require These Warnings:**

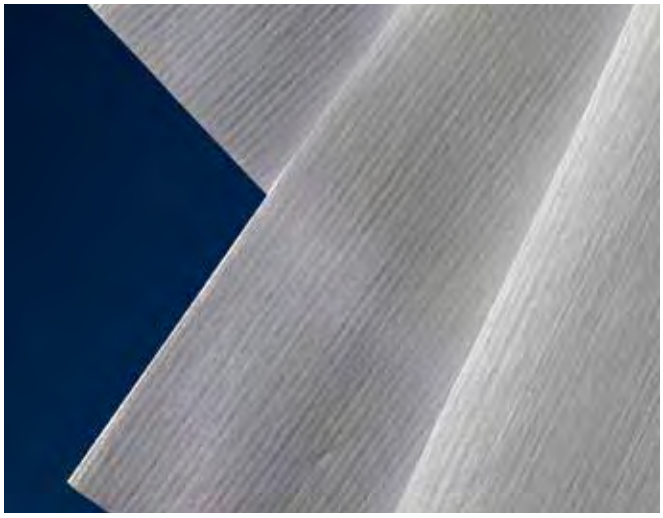
Signal Word	Category	Oral Lethal Dose[1]
DANGER, POISON (Skull and crossbones)	I Highly toxic	A few drops to a teaspoonful
WARNING	II Moderately toxic	Over a teaspoonful to one ounce
CAUTION	III Slightly toxic	Over one ounce to one pint
CAUTION	IV Relatively non-toxic	Over one pint to one pound

[1]Based on a 150-pound person

Disinfectant + Wiper Product Compatibility

			Disinfectants			Cleaners		
Material/Fabric	Texwipe Wiper Products	Texwipe Mop Products	TexQ	Bru-Clean TbC	Texcide	TexP	IPA	Ethanol
Polyester/ Cellulose	TX622, 624, 629, 604, 606, 609, 612, 1109, 1112, 1118, 3210		✗	✓	✓	✓	✓	✓
Microdenier	TX59, 3059, 3052	AlphaMops: TX7118M, STX7118M, TX7114M, STX7114M BetaMops: TX7070, STX7070	✓	✓	✓	✓	✓	✓
Polyester	TX1010, 1012, 1029, 1050, 1052, 1060, 1069, 1070, 1080, 8659, 1003, 1004, 1009, 1009B, 1013, 1008, 1008B, 2064, 2069, 2424, 2452, 2409, 2412, 2418, 49, 42, 29, 22, 3042, 3049, 3215, 3225, 3220, 3211, 3212, 3224, 8942S	AlphaMops: TX7118, STX7118, TX7114, STX7114 BetaMops: TX716R, STX716R, TX7072, STX7072	✓	✓	✓	✓	✓	✓
Polyester/Rayon		BetaMops: TX7073, STX7073	✗	✓	✓	✓	✓	✓
Nylon	TX4004, 4009, 4012		✗	✓	✗	✗	✗	✓
Cotton	TX309, TX306, TX304, TX318, TX312, TX312R, TX329, TX3232		✗	✓	✓	✓	✓	✓
Foam	TX704		✓	✓	✓	✓	✓	✓
Polypropylene/ Cellulose	TX699		✗	✓	✓	✓	✓	✓

✗ = not compatible ✓ = compatible



Pre-Wetted Wipers

Solution	Material	Name	Size	TX#	Bag Qty	Case Qty	ISO Class	EU Grade
Non-Sterile								
IPA 70%	Polyester	Vertex® HS	12" x 12" (30 cm x 30 cm)	TX42P	50	4	3-7	A-D
			9" x 9" (23 cm x 23 cm)	TX49P	75	4	3-7	A-D
		AlphaSat®	4" x 4" (10 cm x 10 cm)	TX1034	200	4	4-8	A-D
			6" x 6" (15 cm x 15 cm)	TX1036	75	12	4-8	A-D
			9" x 9" (23 cm x 23 cm)	TX1039	50	4	4-8	A-D
		QuanSat™	9" x 9" (23 cm x 23 cm)	TX1084	50	12	3-7	A-D
	Polyester/Cellulose	TechniCloth®	6" x 8" (15 cm x 20 cm)	TX1045	100	12	5-8	B-D
			9" x 11" (23 cm x 28 cm)	TX1041	70	12	5-8	B-D
			9" x 11" (23 cm x 28 cm)	TX1065	50	24	5-8	B-D
			7" x 11" (18 cm x 28 cm)	TX1067	200	4	5-8	B-D
	Polypropylene	PolySat®	7" x 11" (18 cm x 28 cm)	TX1040	200	4	5-8	B-D
			9" x 11" (23 cm x 28 cm)	TX1051	50	24	5-8	B-D
			6" x 11" (15 cm x 28 cm)	TX8723	75	24	5-8	B-D
			6" x 11" (15 cm x 28 cm)	TX8727	75	20 & 1 case container	5-8	B-D
Ethanol 70%	Polyester/Cellulose	TechniCloth®	7" x 11" (18 cm x 28 cm)	TX1068	25	20	5-8	A-D
Sterile								
IPA 70%	Polyester	Vertex® HS	12" x 12" (30 cm x 30 cm)	TX3042P	25	5	3-7	A-D
			9" x 9" (23 cm x 23 cm)	TX3049P	25	5	3-7	A-D
		AlphaSat®	12" x 12" (30 cm x 30 cm)	TX3252	25	5	4-8	A-D
		AlphaSat® 10	12" x 12" (30 cm x 30 cm)	TX3280	50	5	2-7	A-D
			9" x 9" (23 cm x 23 cm)	TX3285	20	20	2-7	A-D
	Polyester/Cellulose	TechniCloth®	9" x 11" (23 cm x 28 cm)	TX3214	50	24	5-8	B-D
			9" x 11" (23 cm x 28 cm)	TX3217	20	24	5-8	B-D
	Polypropylene	PolySat®	9" x 11" (23 cm x 28 cm)	TX3213	50	24	5-8	B-D
			9" x 11" (23 cm x 28 cm)	TX3216	20	24	5-8	B-D
Ethanol 70%	Polyester/Cellulose	TechniCloth®	7" x 11" (18 cm x 28 cm)	STX1068	50	20	5-8	B-D
	Polyester	Vertex® HS	12" x 12" (30 cm x 30 cm)	TX3044P	25	5	3-7	A-D

ISO 5 Sample Cleaning Frequency

Surface	Each Shift	Daily	Weekly	Monthly	Quarterly
Trash	✓				
Gowning room	✓				
Floors	✓				
Equipment	✓				
Furniture	✓				
Doors		✓			
Windows		✓			
Walls			twice weekly ✓		
Ceiling				✓	
Under raised floors					✓

Source: IEST-RP-CC-018.4, "Cleanroom Housekeeping: Operating and Monitoring Procedures," p. 13, Table 1.

"A risk assessment should be performed to determine the appropriate frequency for the user. This table is an example of the frequency of cleaning for an average ISO Class 5 cleanroom operation."

USP<1072> Rotation Recommendations

"Because it is theoretically possible that the selective pressure of the continuous use of a single disinfectant could result in the presence of disinfectant-resistant microorganisms **in a manufacturing area, in some quarters, the rotation of disinfectants has been advocated.**"

"**The daily application of sporicidal agents is not generally favored** because of their tendency to corrode equipment and because of the potential safety issues with chronic operator exposure."

"It is prudent to augment **the daily use of a bactericidal disinfectant with weekly (or monthly) use of a sporicidal agent.**"

Putting the **clean** in **clean**room for 50 years.

In 1964 our founder, Edward Paley, created a solution to a problem that no one could see – microcontamination. With the invention of the world's first low-lint wiping cloth, Mr. Paley and Texwipe created an entire industry – contamination control. Today we continue our legacy of clean innovation with products including wipers, swabs, mops, disinfectants, stationery, adhesive mats, sterile products and much more.

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