

Cleaning Protocol



Suwannee District Schools

Why Do We Clean?



- Promote and maintain a healthy learning environment
- Assist in the prevention of spreading illnesses
- Assist in keeping our community healthy

Objectives



- Facility Cleaning and Disinfecting
 - Housekeeping
 - Disinfection
- Protect Yourself and Others
- Disinfecting Target Areas
- Avoid Cross Contamination
- Pandemic Cleaning Protocols

Disinfection



- By definition this is the process of cleaning something, especially with a chemical agent, in order to **CONTROL** bacteria growth.
- This type of cleaning is geared to promote a healthy environment.

Bacteria vs Virus



- A **Virus** is an extremely tiny parasite that can only reproduce if it is within a living being (host). Viruses can infect all types of life forms, from animals and plants to microorganisms, including bacteria.
- Viruses can be enveloped and non-enveloped.
- Viruses can live outside of a host for hours or even days.
- **Examples:** The common cold and the flu, HIV, smallpox and shingles

Protect Yourself and Others



- Good hygiene is critical to prevent contamination. Always use Personal Protective Equipment (PPE) provided. Wash your hands often and thoroughly.
- In the process of protecting yourself you will be protecting others.

What Should you use



- What are you targeting?
 - Is it a Germ or Virus?
 - Is it a substance that will promote the growth of a germ?
 - Is it just Dirt/Sand?
 - Dust?
 - Grease?
- What do you use ?
- A broad-spectrum cleaning product ?
- How do you know ?

How do you Know?



Sanitizer

Arsenal System

A concentrated sanitizer/deodorizer formulated especially for food contact surfaces. It is an ideal product for



Re-Juv-Nal®

Connect System

A phosphate-free, pH neutral formulation designed to provide effective cleaning, deodorizing, and



Suprox-D®

Suprox-D is an EPA registered, neutral pH in dilution, hospital disinfectant with the cleaning power of



Vindicator® +

Arsenal System

This product is a phosphate-free, pH neutral formulation designed to provide effective cleaning,

Read the Labels



Re-Juv-Nal®

A phosphate-free, pH neutral formulation designed to provide effective cleaning, deodorizing, and disinfection for hospitals, nursing homes, schools, food processing plants, food service establishments, restaurants, transportation terminals, office buildings, manufacturing facilities, lodging establishments, hotels, retail business, and athletic/recreation facilities, sports stadiums, amphitheaters and convention centers where housekeeping is of prime importance in controlling cross-contamination from treated surfaces. Active Ingredients: Octyl decyl dimethyl ammonium chloride 1.627%, Dioctyl dimethyl ammonium chloride 0.814%, Didecyl dimethyl ammonium chloride 0.814%, Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chloride 2.170%, Inert Ingredients 94.575%.

- Disinfectant/detergent cleaner with neutral pH.
- Leaves a pleasant scent.
- EPA registered disinfectant.

Re-Juv-Nal®

CONNECT

10

A phosphate-free, pH neutral formulation designed to provide effective cleaning, deodorizing, and disinfection for hospitals, nursing homes, schools, food processing plants, food service establishments, restaurants, transportation terminals, office buildings, manufacturing facilities, lodging establishments, hotels, retail business, and athletic/recreation facilities, sports stadiums, amphitheaters and convention centers where housekeeping is of prime importance in controlling cross-contamination from treated surfaces. Active Ingredients: Octyl decyl dimethyl ammonium chloride 1.627%, Dioctyl dimethyl ammonium chloride 0.814%, Didecyl dimethyl ammonium chloride 0.814%, Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chloride 2.170%, Inert Ingredients 94.575%.

Features & Benefits

- Disinfectant/detergent cleaner with neutral pH.
- Leaves a pleasant scent.
- EPA registered disinfectant.

Efficacy

BACTERICIDAL ACTIVITY - At the 2 ounce per gallon dilution, Re-Juv-Nal demonstrates effective disinfectant activity against the organisms:

Pseudomonas aeruginosa PRD-10
Salmonella (choleraesuis) enterica
Staphylococcus aureus
Staphylococcus aureus (clinical isolate)
Bordetella bronchiseptica
Corynebacterium ammoniagenes
Enterobacter aerogenes
Enterobacter cloacae
Enterobacter cloacae (clinical isolate)
Enterococcus faecalis
Enterococcus faecalis (clinical isolate)
Escherichia coli
Escherichia coli (clinical isolate)
Fusobacterium necrophorum
Klebsiella pneumoniae subsp. *pneumoniae*
Lactobacillus casei subsp. *rhamnosus*

Community Associated Methicillin resistant
Staphylococcus aureus (CA-MRSA) NRS 123
Genotype USA400
Community Associated Methicillin resistant
Staphylococcus aureus (CA-MRSA) NRS 384
Genotype USA300

FUNGICIDAL ACTIVITY - At the 2 ounce per gallon dilution, Re-Juv-Nal is fungicidal against the pathogenic fungi:

Trichophyton mentagrophytes
(Athlete's Foot Fungus)
Candida albicans

VIRUCIDAL ACTIVITY - Re-Juv-Nal when used on environmental, inanimate, hard, non-porous surfaces exhibits effective virucidal activity against:

HIV-1
HIV-2
Hepatitis B Virus (HBV)
Hepatitis C Virus (HCV)
Herpes Simplex Type 1 (causative agent of fever blisters)
Herpes Simplex Type 2 (genital)
Influenza A2/Hong Kong
Vaccinia
Rotavirus
Human Coronavirus (ATCC VR-740, Strain 229E)
SARS Associated Coronavirus
Rabies Virus
Bovine Viral Diarrhea Virus (BVDV)
Pseudorabies
Bovine Rhinotracheitis
Feline Leukemia
Feline Picornavirus
Canine Distemper Virus
Avian Influenza A Virus
Porcine Respiratory & Reproductive Syndrome Virus (PRRSV)
Kills Pandemic 2009 H1N1 Influenza A virus (formerly called swine flu)

(continued on next column)



Safety

See material safety data sheet and product label for safety information, handling and proper use.

HMIS

	Concentrate/RTU
Health	3/1
Flammability	0/0
Reactivity	0/0

Technical Specifications

Color	Red
Scent	Floral
Appearance	Clear Liquid
pH (concentrate)	6.00 - 7.00
Non-Volatile Matter	7.50 - 8.50%
Dilution Rate	1:64

Availability

Item	Pack
HIL0061025	4 - 2.5 Liter Containers

Registrations

EPA Reg. No. 1839-169-1658

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Salmonella (choleraesuis) enterica
Staphylococcus aureus
Staphylococcus aureus (clinical isolate)
Bordetella bronchiseptica
Corynebacterium ammoniagenes
Enterobacter aerogenes
Enterobacter cloacae
Enterobacter cloacae (clinical isolate)
Enterococcus faecalis
Enterococcus faecalis (clinical isolate)
Escherichia coli
Escherichia coli (clinical isolate)
Fusobacterium necrophorum
Klebsiella pneumoniae subsp. *pneumoniae*
Lactobacillus casei subsp. *rhamnosus*
Listeria monocytogenes
Pasteurella multocida
Proteus mirabilis ATCC 9921
Proteus mirabilis ATCC 25933
Proteus vulgaris
Salmonella (paratyphi B) enterica
Salmonella (typhi) enterica
Salmonella (typhimurium) enterica
Salmonella (pollorum) enterica
Serratia marcescens
Shigella sonnei
Shigella flexneri Type 2b
Shigella dysenteriae
Staphylococcus aureus subsp. *aureus*
Staphylococcus epidermidis
Staphylococcus epidermidis (clinical isolate)
Streptococcus pyogenes (Clinical - Flesh Eating Strain BIRD M3)
Streptococcus pyogenes Group A
Xanthomonas maltophilia (clinical isolate)
Vancomycin resistant Enterococcus faecalis (VRE)
Methicillin resistant Staphylococcus aureus (MRSA)
Vancomycin intermediate resistant Staphylococcus aureus (VISA)

(continued on next column)

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Porcine Respiratory & Reproductive Syndrome Virus (PRRSV)
Kills Pandemic 2009 H1N1 Influenza A virus (formerly called swine flu)

Registrations

EPA Reg. No. 1839-169-1658



Read the Labels



Due to state or local regulations this product is restricted in some areas. Check your area

Vindicator® +

This product is a phosphate-free, pH neutral formulation designed to provide effective **cleaning, deodorizing, and disinfection** where housekeeping is of prime importance in controlling cross-contamination. Vindicator +, when used as directed, is formulated to disinfect hard, non-porous, inanimate, environmental surfaces: floors, walls, metal surfaces, stainless steel surfaces, glazed porcelain, glazed ceramic tile, plastic surfaces, vanity tops, shower stalls, bathtubs, and cabinets.

Vindicator+ **EPA Reg # 1839-167-1658** has demonstrated effectiveness against **viruses** similar to **2019 novel coronavirus (SARS- CoV-2) on hard, non-porous surfaces.** Therefore, this product **can be used against SARS- CoV-2, the novel coronavirus that causes the disease COVID- 19,** when used in accordance with the directions for use against Rotavirus on hard, non-porous surfaces.

Refer to the CDC website (<https://www.cdc.gov/coronavirus/2019-ncov/index.html>) for additional information.

- Leaves a pleasant scent.
- Concentrated for economical cost-in-use.
- EPA registered disinfectant.



HILLYARD

Ready-To-Use

#806

Vindicator®+

EPA Reg. No. 1839-167-1658

ACTIVE INGREDIENTS

Octyl decyl dimethyl ammonium chloride.....	6.510%
Dioctyl dimethyl ammonium chloride.....	3.255%
Didecyl dimethyl ammonium chloride.....	3.255%
Alkyl (50% C ₁₂ , 40% C ₁₄ , 10% C ₁₆) dimethyl benzyl ammonium chloride.....	8.680%
INERT INGREDIENTS.....	78.300%
Total.....	100.000%

The product in this container is diluted as directed on the pesticide product label.
Follow the directions for use on the pesticide label when applying this product.
Further sale or distribution of this product is strictly prohibited.

KEEP OUT OF REACH OF CHILDREN

See primary label for Precautionary
Statements and First Aid
Customer Affixed Label

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HILLYARD
ARSENAL

HILLYARD INDUSTRIES, INC.
St. Joseph, MO 64502 U.S.A.
Telephone: 816-233-1321

PRECAUTIONARY STATEMENTS

KEEP OUT OF REACH OF CHILDREN. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. **If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.

Label Reorder #HIL31625

El producto en este recipiente se diluye como se indica en la etiqueta del producto pesticida. Siga las instrucciones de uso en la etiqueta del pesticida al aplicar este producto. Se prohíbe estrictamente la venta o distribución de este producto.

MANTENGASE FUERA DEL ALCANCE DE LOS NIÑOS

DECLARACIONES DE PRECAUCIÓN

MANTENGASE FUERA DEL ALCANCE DE LOS NIÑOS. Provoca irritación moderada de los ojos. Nocivo si se absorbe a través de la piel. Evite contacto con ojos, piel o ropa. Lávese bien con agua y jabón después de manipularlo y antes de comer, beber, masticar chicle, fumar o usar el baño. Quitar y lavar la ropa contaminada antes de usarla nuevamente.

PRIMEROS AUXILIOS

Tenga el envase o etiqueta del producto cuando llame al centro de toxicología o al médico o al solicitar tratamiento.

Si es en los ojos: Mantenga los ojos abiertos y enjuague lenta y suavemente con agua durante 15-20 minutos. Quite los lentes de contacto, si presente, después de los primeros 5 minutos, luego continúe enjuagando los ojos. Llame a un centro de toxicología o a un médico para recibir tratamiento. **Si entra en contacto con la piel o con la ropa:** Quite la ropa contaminada. Enjuague la piel inmediatamente con abundante agua durante 15-20 minutos. Llame al centro de control de envenenamiento o a un médico para recibir consejos de tratamiento.

DISINFECTION - To disinfect inanimate, hard non-porous surfaces, add ½ ounce of Vindicator+ per gallon of water. Apply solution with a mop, cloth, sponge, hand pump trigger sprayer or low pressure coarse sprayer so as to wet all surfaces thoroughly. **Allow to remain wet for 10 minutes**, then remove excess liquid. For sprayer applications, spray 6-8 inches from surface, rub with brush, sponge or cloth. Do not breathe spray mist. For heavily soiled areas, a pre-cleaning step is required. Surfaces which may contact food must be rinsed thoroughly with potable water after use.

***VIRUCIDAL ACTIVITY** - Vindicator+ when used on environmental, inanimate, hard, non-porous surfaces at ½ ounce per gallon of water exhibits effective virucidal activity against Human Immunodeficiency Virus Type 1 (HIV-1), Human Immunodeficiency Virus Type 2 (HIV-2), Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), Herpes Simplex Type 1 (causative agent of fever blisters), Herpes Simplex Type 2 (genital disease), Influenza A2/Hong Kong, Vaccinia, Rotavirus, Human Coronavirus (ATCC VR-740, Strain 229E), SARS Associated Coronavirus, Rabies Virus, Bovine Viral Diarrhea Virus (BVDV), Pseudorabies, Bovine Rhinotracheitis, Feline Leukemia, Feline Picornavirus, Canine Distemper Virus, Paramyxovirus (Mumps), Porcine Respiratory & Reproductive Syndrome Virus (PRRSV) and Avian Influenza A Virus. Kills Pandemic 2009 H1N1 Influenza A virus (formerly called swine flu).

KILLS HIV-1, HIV-2, HBV, and HCV ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS in health care settings (hospitals, nursing homes) or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 or Type 2 (HIV-1 or HIV-2) (associated with AIDS), Hepatitis B Virus (HBV), and Hepatitis C Virus (HCV).

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1, HIV-2, HBV, and HCV ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS.

PERSONAL PROTECTION: When handling items soiled with blood or body fluids, use disposable latex gloves, gowns, masks, and eye coverings.

CLEANING PROCEDURES: Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of Vindicator+.

CONTACT TIME: Allow surface to remain wet for 10 minutes.

Read the Label



Re-Juv-Nal[®]

EPA Reg. No. 1839-169-1658

ACTIVE INGREDIENTS:

Octyl decyl dimethyl ammonium chloride.....	1.627%
Dioctyl dimethyl ammonium chloride.....	0.814%
Didecyl dimethyl ammonium chloride.....	0.814%
Alkyl (50% C ₁₄ , 40% C ₁₂ , 10% C ₁₆) dimethyl benzyl ammonium chloride.....	2.170%

INERT INGREDIENTS.....	94.575%
Total.....	100.000%

Efficacy

BACTERICIDAL ACTIVITY - At the 2 ounce per gallon dilution, Re-Juv-Nal demonstrates effective disinfectant activity against the organisms:



Vindicator[®]+

EPA Reg. No. 1839-167-1658

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Efficacy

BACTERICIDAL ACTIVITY - At the ½ ounce per gallon dilution, Vindicator+ demonstrates effective disinfectant activity against the organisms:



Know the District Approved Germicidal Agents

Hillyard Re-Juv-Nal CS-046



- All sites should already have this in their Arsenal dispenser.
- **Be mindful that ALL Disinfectants require a dwell time.**
- Re-Juv-Nal requires a 10 min stay wet dwell time to be effective
- Vindicator Is being added to a Arsenal Dispenser at each site.
- Simply wiping with a damp cloth will not accomplish results.



Know the District Germicidal Agents



- Effective
- Bactericidal/Virucidal/Fungicidal
- Variety of uses for institutional environments

Sanitizing Agents



- Formulated especially for food Contact surfaces and more.
- Requires no rinsing
- Effective against less things than Disinfectants.
- But more effective if the disinfectant dwell times are not being accomplished.
- Sanitizer dwell time is 1 minute



HILLYARD
Ready-To-Use

#825

Sanitizer

DEODORANT

EPA Reg. No. 47371-147-1658

Active Ingredients:

Didecyl dimethyl ammonium chloride	2.31%
n-Alkyl (C14 50%, C12 40%, C16 10%)	1.54%
dimethyl benzyl ammonium chloride	96.15%
Other Ingredients	100.00%
Total:	100.00%

The product in this container is diluted as directed on the pesticide product label.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See side panel for Precautionary Statements and First Aid.

Customer Affixed Label

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 HILLYARD
ARSENAL

HILLYARD INDUSTRIES, INC.
 St. Joseph, MO 64502 U.S.A.
 Telephone: 816-233-1321

Sanitizer

A concentrated sanitizer/deodorizer formulated especially for food contact surfaces. It is an ideal product for sanitizing food utensils, countertops, drinking glasses, dishes, and silverware, as well as refrigerated storage and display equipment. Active Ingredients: Didecyl dimethyl ammonium chloride 2.31%, n-Alkyl (C14 50%, C12 40%, C16 10%) dimethyl benzyl ammonium chloride 1.54%. Other Ingredients: 96.15%.

Features & Benefits

- Formulated especially for food contact surfaces.
- Requires no rinsing.
- EPA registered sanitizer.

Efficacy

EFFECTIVE AGAINST:

Campylobacter jejuni
Escherichia coli (E. coli)
Salmonella enterica
Staphylococcus aureus

HILLYARD
ARSENAL®
25



Safety

See material safety data sheet and product label for safety information, handling and proper use.

HMIS

Concentrate/RTU

Routine High Contact Areas



- This areas we refer to as target areas when disinfecting a facility.
- **State Requirements for Educational Facilities (SREF) mandates that all schools be cleaned with a Germicidal Detergent**
- In some instances SREF will dictate frequency and even methods for cleaning and disinfection of such areas as restrooms facilities and drinking fountains.
- Examples of target areas:
 - Restrooms (All Fixtures including flushing mechanisms)
 - Door Knobs
 - Cafeteria tables
 - Door panic bars and push plates
 - Students desks
 - Light switch plates and surrounding areas
 - Wrestling mats/Weight rooms
 - Playgrounds equipment
 - Area rugs

Who is responsible for Which Part ?



- Existing Custodian will continue to do the required daily tasks.
 - Using what you have always used
- New Assistant will constantly do High Contact Area's ALL DAY!!
 - Using Vindicator
 - Door knobs (classrooms, hallways, entrance doors), Water fountains (classrooms and halls), Chairs in waiting areas, Counter tops where people touch, Clinic if needed,ETC
 - Check and refill Hand Sanitizer dispensers

New Equipment



- New Carts
 - Supplied to do the constant high contact surfaces
 - Storage to refill teacher supplied Vindicator , Hand Sanitizer and Towels
- New Sprayers
 - Used for Clinic Daily
 - Entire classrooms if determined by the Administration
 - Can be used in locker rooms
 - Going to be used Daily on the buses
 - Drivers will also have spray bottles and towels

Care for the Sprayer



- Must be kept in a secure location
- Must be cleaned out and conditioned after every use
- Keep batteries charged

Hand Sanitizers



- Hand sanitizers, although a way to protect yourself in absence of water and hand soap, only have a log reduction of 1 (99.9%) which only kills bacteria in the Lipids range.
- According to the [CDC](#), other methods like vigorous friction and UV light (sunlight) have proven to be more effective in eliminating bacteria.

Avoiding Cross Contamination



- Cross contamination is the process by which bacteria or other microorganisms are unintentionally transferred from one substance or object to another, with harmful effect.

Avoiding Cross Contamination



- Keeping custodial carts, cleaning equipment, and custodial closets clean is a starting point to prevent cross contamination.
- Use a different mop for different tasks and change mop heads regularly.
- Wash your hands properly and often.
- Keep restrooms and hand washing stations properly supplied
- Follow all Plant Operation's Protocols.



Sanitation & Cleanliness