

Pharmaceutical FRONTLINE

A PUBLICATION OF PHARMACAL RESEARCH LABORATORIES, INC. •



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It's That Time Of Year Again

October 13-15, 2003
Seattle, Washington

Once again it is time for the National ALAS Meeting. Pharmacal has designed a state of the art booth to better accommodate our customers. We hope you will stop by for a visit. Pharmacal representatives will be available to discuss the latest in sanitation. Pharmacal will be at Booth # 907.



Does Temperature Play a Role in the Efficacy of Disinfectants?

A recent paper from Antec International suggests that surface temperature (and the temperature of the solution) play a much larger role in the efficacy of the disinfecting product than perhaps previously thought.

As examples, the paper notes that formaldehyde and glutaraldehyde are rendered much less effective at cooler temperatures. In fact formaldehyde is unable to work as a bacteriostat at temperatures approaching 50 degrees F.

It has been well documented that sodium hypochlorite (bleach) performs better as a bacteriostat when the pH is adjusted to be on the acidic side, and the temperature is held closer to 70 degrees. Lowering the temperature will reduce its efficacy.

Virkon-S which is a peroxygen based disinfectant, is relatively unaffected by temperature fluctuations.

Bacterial Resistance to Long-term Use of Disinfectants:

Antec International's paper on temperature's role in the efficacy of the disinfecting solution also touches on the "hot button" topic of microbial resistance to disinfectants. The concern of laboratory animal care managers has brought attention to this issue and has recently resulted in the 'disinfectant rotation' program. The speculation is that the microbe is susceptible to the action of the disinfectant at one site or one particular point in the life cycle of the microbe. For instance, the enveloped virus has perhaps one or two areas where a disinfectant can interact with the cell, causing a chaotic

environment where the cell contents will be eradicated. Over time, microbes have evolved to potentially block the site where the disinfectant is effective, thus rendering the disinfectant potentially useless against that microbe.

Virkon®-S EPA REG #62432-1, which is an oxidizing product, has multiple modes of action which can interfere with the microbe at many different target areas. This means that the microbe has many different 'holes' it needs to shore up before it can be called resistant to the effects of Virkon.

Copies of this PDF document may be obtained from Tammy at 1-800-243-5350 or email her at tmarotta@pharmacal.com.

Winter Alert!



Please remember that with the coming colder weather, we may not ship products that will be 'en route' over a weekend. This is to avoid freezing when trucking firms hold freight in unheated warehouses. If you have urgent need for chemical products please contact our office at 1-800-243-5350 and discuss your order requirements with our trained staff.

PRL PRODUCTS

ALKALINE DETERGENTS

ALKA-DET® 2
ALKA-DET® 3
ALKA-DET® HW
CLOUT®
CLOUT® PF
PRL-18®
PRL-25®
PRL- GREASE FREE®
RELEASE®

URINE SCALE REMOVERS

ACID POWER®
URI-SOLV®
URID®

ACID NEUTRALIZER

pH Control®

DISINFECTANTS

CLIDOX®-S
VIRKON®-S
QUATRICIDE® TB
QUATRICIDE® PV
QUATRICIDE® PV-15
QUATRICIDE®

PERSONAL INFECTION CONTROL

Pharma-Clenz® Skin Cleanser
Pharma-Clenz® Barrier Cream

SPECIALTY PRODUCTS

Crystalit®
Liquid Litter®
Trail®
Urex®
Foam Booster™
Sani-Cloth®

MONITORING PRODUCTS

Temp-Tapes®
Tri-Temp Tapes®
RODAC® plates
SteriGage™
QUAT CHECK Paper
pH Paper
Water Hardness Test Strips

EQUIPMENT

Complete line of chemical mixing & proportioning devices

Power Sprayer™
Power Foamer™
CLIDOX® Mixing Station
Hydro Units
Spill Containment Pallets
Ergonomic Drum Handler
Drum Dollies

LABEL UPDATES

Pharmaceutical's Registered disinfectants have a new look.

The new EPA approved labels will be seen on all registered products manufactured on or after October 1, 2003. The product remains the same but the labels have been modified to meet new regulation requirements. The First Aid and Emergency information, as well as Storage & Disposal information are brightly marked. These products have the same percent active ingredients and are to be mixed in the same manner.

All EPA Registered products will have their name and EPA Registration number clearly marked. Signal Words such as Danger, Caution, or Warning should be found on the front panel. Active ingredients and their percentages must also be located here. If the Precautionary statements are not on the same panel, a referral statement must advise the user on it's location- See side or back panel, etc.

Labels will have a Net Contents with an amount and a lot number.

Any disinfectant that has a Health care use will now have a Terminal Sterilant Statement, such as, This product is not to be used as a terminal sterilant / high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical devices prior to

sterilization or high-level disinfection.

There may be specific directions for use pertaining to certain marketing claims. It is advisable that the user reads each label and is familiar with the product and all precautions prior to use.

QUATRICIDE® PV EPA REG # 47371-131-08714 and QUATRICIDE® PV-15 EPA REG # 47371-129-08714 have now added Hepatitis C Virus (HCV) to the virus category. If you have any questions, please contact your sales representative.

Virkon®-S UPDATES

A new VIRKON®-S label has also been recently approved. The following pathogens have been added to the label:

Bacteria:

Dermatophilus congolensis
Mycoplasma mycoides
Streptococcus suis

Viruses:

Bovine Polyoma Virus
Bovine Pseudocowpox Virus
Bovine Viral Diarrhea Virus
Canine Adenovirus
Canine Coronavirus
Canine Parainfluenza Virus
Chicken anemia Virus
Duck Adenovirus
Equine Herpes Virus (Type 1)
Herpes Virus Equine (Type 3)
Feline Infectious Peritonitis Virus
Feline Panleukopenia Virus
Feline Rhinotracheitis Virus
Infectious Canine Hepatitis Virus
Infectious Pancreatic Necrosis Virus
Infectious Salmon Anaemia Virus
Infectious Bovine Rhinotracheitis Virus
Maedi-Visna Virus
PCV2 Virus (PMWS)
Snakehead rhabdovirus
SV40 Virus
Transmissible Gastroenteritis Virus (TGE)
Turkey Rhinotracheitis Virus

Hand Sanitation and Hygiene

The CDC has released updated Guidelines for hand Hygiene in Health Care Settings, which discusses a variety of disinfectants for hand sanitation. Of note is the discussion of PCMX (chloroxylenol) as the active ingredient in both PharmaClenz hand soap and PharmaClenz antimicrobial hand lotion.

PCMX is a compound that has a wide range of uses today. It is used as both a preservative and as an antimicrobial additive for many products including soaps. PCMX probably works as an antimicrobial agent by inactivating bacterial enzymes and cell walls (CDC Guidelines for Hand hygiene, 2003). PCMX is most effective when used as a hand scrub, especially when the 30-second scrub is applied. In addition it offers residual antimicrobial activity on skin surfaces. While other antimicrobial products may offer a faster log reduction in microbe eradication, PCMX's is generally well tolerated and reports of allergic responses to it are uncommon.

Pharmaceutical continues to offer our customers safe and effective products. PharmaClenz antimicrobial hand soap and antimicrobial hand lotion are two excellent examples of our commitment to our customers, laboratory animal science, and disinfection.



Monkey Pox Outbreak USA

The summer of 2003 brought us a variant of the Monkey Pox virus from a very unusual source: pocket pets, specifically the prairie dog. Prairie dogs sold in the Midwest USA were found to carry monkey pox, which belongs to the orthopoxvirus family (which also contains small pox and cattle pox, etc.). The monkey pox spread by direct contact to humans. Symptoms would include rashes, especially on their extremities, fever, swollen lymph nodes, etc., and resolves in approximately 4 weeks. There is approximately 10% mortality in the human population.

Humans who have been exposed can be protected by the smallpox vaccination, which can be administered post-exposure. Animal housing units, however, must be disinfected immediately when monkeypox is suspected.

Products that carry disinfectant claims for the orthopoxvirus family must be utilized. Virkon*-S carries claims against three orthopoxvirus strains including the Orthopox virus Vaccinia variola (the strain used to make the smallpox vaccination). One should note that poxviruses are stable and very resistant to temperature change, particularly in dry conditions. They survive a long time in dust.



Product Stability Guidelines

This guide was developed and made available to our customers that require specific information for their internal records or SOP's (Standard Operating Procedures). We have recently updated these guidelines to help those facilities that are under FDA requirements. If your facility falls under these guidelines, please contact your sales representative for further information available for Quality Assurance Documents for Pharmaceutical's products used at FDA facilities.

If you currently have a stability guideline and wish to receive the updated version, please contact your local sales representative or the customer service division at 800-243-5350.

Since 1971...

Pharmaceutical Research Laboratories has been the leading manufacturer and distributor of high quality sanitation products developed exclusively for the professional engaged in Laboratory Animal Science. Customer satisfaction is our number one priority.

Leading the way.....

Our products are developed to achieve the highest level of efficacy. All products must go through an extensive testing procedure before it is even tested in the field. Once in the field, new products are tested and retested before they become available to our customers. Pharmaceutical is also always on the look out for new and improved equipment. We provide top quality products, reliable and easy to use dispensing equipment, drum handling and storage equipment, timely deliveries, and competitive pricing.

Pharmaceutical people.....

Our staff includes three Certified Laboratory Animal Technologists (LATG), two chemical engineers, an industrial environmental engineer, and highly trained service personnel.

— Ask PRL —

We hope that you have found our FRONTLINE newsletter informative. Do you have questions about sanitation that we can answer?

CONTACT US AT:

Pharmaceutical Research Laboratories • 1-800-243-5350

E-mail us at: moreinfo@pharmaceutical.com

Or visit our internet Web site at: www.pharmaceutical.com

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Glassware Washing Products

Monitoring Products

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Equipment**

**Material Handling
Equipment**

**ONCE AGAIN WE ARE
LEADING THE INDUSTRY WITH
GOODS AND SERVICES
— SECOND TO NONE —**

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