VELTEK ASSOCIATES, INC.

# INNOVATIVE CLEAN ROOM SOLUTIONS

# INNOVATIVE SOLUTIONS YOU CAN TRUST

Every day, the people of Veltek Associates, Inc. make amazing things happen—from revolutionary discoveries to exceptional customer service to consistent, quality manufacturing. As a result, we remain the clean room industry's most trusted source for innovation, quality and service…

# KNOWLEDGE, EXPERIENCE AND PARTNERSHIP

More than 300 pharmaceutical, biotechnology and healthcare clients around the world turn to VAI because we understand the challenges they face. Our experience and unsurpassed technical expertise means "real-world" solutions from people who have worked in the industry. And, because our product line is so extensive, a relationship with VAI means a more cost-effective way to buy clean room products.

At VAI, we develop our products in an environment that mimics your environment — providing a seamless development process that ensures accuracy and precision. And when you work with us, you get recommendations from technical experts who have extensive industry experience, not salespeople. This means you get exactly what you need, and nothing you don't.

## About VAI Laboratories

Complete and documented efficacy performance and testing to prove the removal of existent contamination is a very costly and time-consuming task. Hence, VAI has responded by establishing VAI Laboratories, a GLP microbiological testing facility capable of performing time contact kill studies, disinfectant validation services and microbe identification. In addition, the VAI Laboratories staff, who work daily in GMP settings, will consult with each client to ensure they achieve best-in-class clean room operations and contamination control. These value-added services provide our clients with timely advice and proven solutions, all within the framework of regulatory requirements.

## Learn More

At VAI, we strive to develop meaningful, long-term relationships with our clients to help reduce expenses, eliminate waste and simplify manufacturing. Plus, our products are designed to build upon each other, so as you grow, you know you can count on us. Call us today at 610-644-8335 or visit www.sterile.com.

# WELCOME TO SCMD

## STERILE CHEMICAL MANUFACTURING DIVISION

The prior removal of contaminants, both viable and non-viable, in solutions to be used within the aseptic manufacturing operation is essential in assuring the control and integrity of the environment.

VAI's Sterile Chemical Manufacturing Division (SCMD) has addressed the needs of the Pharmaceutical and Biotechnology industries by designing a complete range of sterile chemicals and disinfectants for the Class 100 aseptic manufacturing area. VAI's SCMD products are used at over 300 Pharmaceutical and Biotechnology organizations worldwide.

VAI's SCMD manufacturing operations mirror Current GMP's and enforces the complete adherence to USP specifications for testing of all manufactured products. VAI is also an EPA and FDA registered facility.

SCMD occupies a majority of the square footage of the Malvern, PA facility and manufactures a complete range of sterile chemicals and disinfectants that are used daily in Class 100 operations. All VAI manufacturing operations are completely validated and routinely revalidated to assure product integrity. VAI capabilities for manufacturing products include the ability to fill aerosol, bulk and unidose packages in a Class 100 aseptic filling operation. Our aseptic filling operations are coupled with the validated and proven ability to irradiate a final product. Assurances are taken in every aspect of SCMD concerning sterility and particulate removal.

SCMD has taken another step in product quality assurance by incorporating USP Water for Injection (WFI) into some of our products. The established WFI systems in our new SCMD facility incorporate an added advantage to the manufacture of our products. The mission of VAI's SCMD is to provide either a pyrogen free product where desired or a pyrogen reduced product where raw materials that must be incorporated have the inability to be processed as pyrogen free.

SCMD has manufacturing capabilities to produce both VAI products and custom contract manufacturing designs. In recent years, VAI has been asked by many Pharmaceutical and Biotechnology operations to manufacture raw materials for use in their operation. VAI's SCMD uncompromising cGMP manufacturing style and our complete adherence to USP specifications have assured outside organizations that their products will not only be produced and tested as sterile, but moreover, their product will be completely documented and validated. VAI's SCMD is proud of its history and track record.

VAI's SCMD® products include DEC-AHOL® Sterile WFI, STER-AHOL® Sterile WFI, DEC HAND®, DEC-PHENE®, DEC-PHASE®, DEC-CYCLE®, PHENE-AHOL®, DEC-Clean®, DEC-QUAT®, HYPO-CHLOR®, STERI-PEROX®, STERI-WATER®, VAI WFI QUALITY WATER, DEC-SPORE 200 Plus®, DEC-Glass®, STERI-OIL®, STERI-SILICON®, STEEL-BRIGHT® and the SIMPLEMIX® product line.

*These products are described on the following pages.*




# SCMD-STERILE CHEMICAL MANUFACTURING DIVISION





610-644-8335




# DEC-ASSURE® BIODECONTAMINATION PROGRAM

The DEC-Assure Biodecontamination Program has been developed to assist you in maintaining acceptable environmental conditions while addressing the requirements of regulatory agencies. "Testing and Addressing" contamination in a documented system is the goal of the DEC-Assure Biodecontamination Program. The following is a brief summary.

## CRITERIA #1: TEST AND ADDRESS CONTAMINATION:

Through one's environmental monitoring program, one can develop a list of environmental isolates that have been noticed in their operations. Once developed, the key is to successfully integrate and document a plan for assuring the demise of these organisms.

## CRITERIA #2: ANTIMICROBIAL EFFECTIVENESS STUDIES:

Determining what chemical agents will destroy a known level of one's environmental isolates is the next step. Prior to conducting either a Time Contact Kill Study (Tube Dilution), or a Time Contact Kill Study (On User Surfaces) or an AOAC Protocol Study, one needs to review the available disinfecting agents and determine which is initially appropriate for their operations. Upon choosing 1 or 2 disinfecting agents and a sporicide, one can continue with the antimicrobial effectiveness studies. Antimicrobial effectiveness studies must be based on realistic bioburdens that may be noticed in the controlled areas. It is normal to test an enumeration greater than or equal to 1.0 x 104 cfu's. This testing will provide the justification for utilizing the chemical agents.

## CRITERIA #3: CHOOSING A DISINFECTION SYSTEM:

Varying applications require various solutions to be in place. VAI has established three (3) systems that will net success. The choice to use a phenolic, quaternary ammonium or hydrogen peroxide delineates the rotation parameters. The choice of one disinfectant and a sporicide is completely appropriate, however, some may decide to rotate similar disinfectants while also utilizing a sporicide.


# DEC-ASSURE® BIODECONTAMINATION PROGRAM (CONTINUED)

Rotation systems are designed to address known or possibly existent contamination with proven efficacious disinfectants. The basis for the rotation of disinfecting or sporicidal agents is to address an organism that may not be destroyed by a particular disinfectant with another that has proven efficacy performance against such organism. An example would be a phenol that may not kill a b. subtillis in a 5-10 minute contact time and thus the rotation to a more efficacious product such as a sporicide may be warranted to destroy this organism. However, organisms do not develop an immunity or resistance to a chemical agent over time. Scientific evidence of such occurrences has never been documented as factual in the clean room. Thus, the basis for rotation is to address an organism that is not destroyed by, nor ever was destroyed by, one chemical agent with another that has proven efficacy performance against such organism.

Destroying contamination in a clean room operation requires addressing the known vegetative cells and the spores. In design of a rotation system, there are two types. 1) A single disinfectant rotated with a sporicide, and 2) A two disinfectant system (rotated monthly) plus a sporicide. Either system requires, at minimum, a monthly sporicidal application. This may be increased or decrease in time frames and will be determined by the environmental conditions. The use of DEC-Clean® is considered an optional step in controlling existent residues and should be done at least once a quarter (suggested monthly). DEC-AHOL WFI® or STER-AHOL WFI® should be used on process equipment as a final wipe down.

## CRITERIA #4: CONDUCTING AN "IN-SITUATION FIELD STUDY":

Once a disinfection system has been chosen and antimicrobial effectiveness testing has been completed, conducting an “in situation field study” is important to prove the effectiveness of the combination of our cleaning SOP’s (standard operating procedures) and our antimicrobial effectiveness testing. Simply, environmental monitoring (both air and surface) is conducted in a dirtied room. Upon completion of the monitoring, the room is cleaned and disinfected per the current operating procedures. Upon completion and drying of all surfaces, the room is monitored again. Satisfactory results need to be obtained in 3 different and separate in-situation field studies prior to acceptance of the disinfection system.

## CRITERIA #5: UPDATING YOUR PROFILE:

As time progresses, it’s possible that not previously tested organisms may be noticed in operations. Antimicrobial effectiveness testing should be performed on these contaminants to continue to prove and document the disinfection system as validated to current operations. Changes over time may also occur in production scenarios, processes and personnel. Reviewing SOP’s for cleaning and disinfection should be done routinely to address current situations.




# DEC-ASSURE® BIODECONTAMINATION PROGRAM (CONTINUED)

## DEC-ASSURE ROTATION SYSTEMS:

### Month 1: Rotating One Disinfectant and a Sporicide

| Day(s) | Phenolic | Quaternary Ammonium | Hydrogen Peroxide |
|---|---|---|---|
| Day 1-13 | DEC-PHENE, DEC-PHASE or DEC-CYCLE | DEC-QUAT | STERI-PEROX 3% or 6% |
| Day 14 (if warranted by EM data) | DEC-Clean followed by HYPO-CHLOR 0.52% or STERI-PEROX 3% or 6%, or DEC-SPORE 200 Plus. | DEC-Clean followed by HYPO-CHLOR 0.52% or STERI-PEROX, or DEC-SPORE 200 Plus. | DEC-Clean followed by HYPO-CHLOR 0.52% or STERI-PEROX, or DEC-SPORE 200 Plus. |
| Day 15-29 | DEC-PHENE | DEC-QUAT | STERI-PEROX 3% or 6% |
| Day 30 | DEC-Clean followed by HYPO-CHLOR 0.52% or STERI-PEROX, or DEC-SPORE 200 Plus. | DEC-Clean followed by HYPO-CHLOR 0.52% or STERI-PEROX, or DEC-SPORE 200 Plus. | DEC-Clean followed by HYPO-CHLOR 0.52% or STERI-PEROX, or DEC-SPORE 200 Plus. |

### Month 2: Rotating Two Disinfectants with a Sporicide

| Day(s) | Phenolic | Quaternary Ammonium | Hydrogen Peroxide |
|---|---|---|---|
| Day 1-13 | DEC-PHENE, DEC-PHASE or DEC-CYCLE | DEC-QUAT | STERI-PEROX 3% or 6% |
| Day 14 (if warranted EM data) | DEC-Clean followed by HYPO-CHLOR 0.52% or STERI-PEROX 3% or 6%, or DEC-SPORE 200 Plus. | DEC-Clean followed by HYPO-CHLOR 0.52% or STERI-PEROX 3% or 6%, or DEC-SPORE 200 Plus. | DEC-Clean followed by HYPO-CHLOR 0.52% or by STERI-PEROX 3% or 6%, or DEC-SPORE 200. |
| Day 15-29 | DEC-CYCLE | STERI-PEROX 3% or 6% | DEC-QUAT |
| Day 30 | DEC-Clean followed by HYPO-CHLOR 0.52% or STERI-PEROX 3% or 6%, or DEC-SPORE 200 Plus. | DEC-Clean followed by HYPO-CHLOR 0.52% or STERI-PEROX 3% or 6%, or DEC-SPORE 200 Plus. | DEC-Clean followed by HYPO-CHLOR 0.52% or STERI-PEROX 3% or 6%, or DEC-SPORE 200 Plus. |

After disinfection all critical surfaces should be rinsed with hot WFI or an IPA wipedown performed.


# DEC-AHOL® STERILE WFI

## WFI FORMULA USP ISOPROPYL ALCOHOL WITH USP WFI WATER

DEC-AHOL Sterile WFI Formula has been developed to address the reduction of possible endotoxin levels that may exist in the use of a 70% sterile Isopropyl alcohol solution. VAI knew that just formulating 99% isopropyl alcohol with USP Water for Injection (WFI) without the concern for the reduction of endotoxin levels throughout the entire manufacturing process would net an unacceptable final product. Therefore, after years of development VAI has assured not only the formulation of the product with UPS Water for Injection but also designed a system to assure a closed system manufacture of the product. VAI has assured the lowest possible endotoxin level making it an excellent choice for the critical Class 100 aseptic manufacturing operation.

**DEC-AHOL WFI Formula is:**

- 70% USP Isopropyl Alcohol
- Filtered at 0.2 Microns
- Double-bagged packaged
- Gamma irradiated
- Completely tested according to current USP compendium
- Delivered with lot specific Certificate of Irradiation, Certificate of Analysis, LAL Testing Analysis and Sterility Report
- Completely traceable
- Completely validated for sterility and shelf life

**USES: DEC-AHOL WFI Sterile Formula is used for the decontamination of items such as:**

- Gloves
- Surfaces
- Carts
- Countertops
- Process lines
- Applications that require a sterile alcohol solution made with USP Water for Injection

| Order# | Description | Quan/cs. |
|---|---|---|
| DECWFI-SP-70-E | 70% Mist Spray Sterile, 11 oz. Aerosol | 24 |
| DECWFI-ST-70-E | 70% Stream Spray Sterile, 11 oz. Aerosol | 24 |
| DECWFI-SP-70-B-E | 70% Inverta Spray Mist, 11 oz. Aerosol | 24 |
| DECWFI-SP-91-E | 91% Mist Spray Sterile, 11 oz. Aerosol | 24 |
| DECWFI-ST-91-E | 91% Stream Spray Sterile, 11 oz. Aerosol | 24 |
| DECWFI-B-60-E | 60% 1 Gallon Sterile | 4 |
| DECWFI-B-70-E | 70% 1 Gallon Sterile | 4 |
| DECWFI-B-91-E | 91% 1 Gallon Sterile | 4 |
| DECWFI-TR-03-E | 70% 16 oz. Trigger Spray Sterile (separate triggers) | 12 |
| DECWFI-TR-04-E | 70% 16 oz. Trigger Spray Sterile (attached triggers) | 12 |
| DECWFI-TR-05-E | 70% 32 oz. Trigger Spray Sterile (attached triggers) | 12 |
| DECWFI-SQ-8Z-E | 70% 8 oz. Squeeze Bottle Sterile | 24 |
| DECWFI-SQ-16Z-E | 70% 16 oz. Squeeze Bottle Sterile (individually bagged) | 12 |
| DECWFI-SQ-03-E | 70% 16 oz. Squeeze Bottle Sterile (bulk packed) | 12 |
| DECWFI-B-5G-70-E | 70% 5 Gallons Container Sterile | 1 |
| DECWFI-BAG-01-E | 70% 32 ounce bag for Asepti Cleanse® unit | 8 |

## AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

DEC-AHOL WFI Product Validation
Technical Data File



610-644-8335


# STER-AHOL® STERILE WFI

## DENATURED ETHANOL WITH USP WFI WATER

STER-AHOL Sterile WFI Formula is 70% Denatured Ethanol made with USP Water for Injection

**STER-AHOL WFI Formula is:**

- Filtered at 0.2 Microns
- Double-bagged packaged
- Gamma irradiated
- Formulated to 70% and denatured with a small percentage of Methyl Alcohol and Isopropyl Alcohol
- Available in aerosol spray (nitrogen propellant), 16 ounce containers and 1-gallon containers
- Completely tested according to current USP compendium
- Delivered with lot specific Certificate of Irradiation, Certificate of Analysis, LAL Testing Analysis and Sterility Report
- Completely traceable
- Completely validated for sterility and shelf life

**USES: STER-AHOL WFI Sterile Formula is used for the decontamination of items such as:**

- Gloves
- Surfaces
- Carts
- Countertops
- Aseptic connections
- Applications that require a sterile alcohol solution made with USP Water for Injection

| Order# | Description | Quan/cs. |
|---|---|---|
| DSTER-WFI-SP-70 | 70% 11 oz. Aerosol Mist Spray Sterile | 24 |
| DSTER-WFI-B-70 | 70% 1 Gallon Sterile | 4 |
| DSTER-WFI-TR-04 | 70% 16 oz. Trigger Spray Sterile | 12 |

## AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

STER-AHOL WFI Product Validation
Technical Data File


# SIMPLEMIX® SYSTEMS

For the Exact Formulation of Disinfectants and Sporicides.


## ADVANTAGES AND FEATURES:

- Eliminates concerns by regulatory agencies for proper mixing and sterility of the solution
- No filtering solutions to aseptic manufacturing areas
- No need to assure sterile USP Water For Injection is present in the aseptic area
- No concerns for mixing and handling concentrate phenolics, quaternary ammoniums, per acetic acid & H202 or cleaners with sterile water in aseptic manufacturing operations
- The system assures the appropriate dilution is made each time in a closed sterile system
- Dilutions are made safely as concentrates are never handled
- All chemical agents and the WFI Quality Water, are filtered at 0.2 microns and manufactured in a Class 100 filling operation
- The contents of the double bagged package are sterilized through a validated gamma radiation cycle that assures a $10^{-6}$ Sterility Assurance Level
- All product lots are sterility tested per current USP compendium
- Available in 2 sizes – 1 gallon and 16 ounce trigger sprayer
- Simply remove the top cap, pull the tab, replace the cap and shake gently. The solution is then ready to use
- Available Sterile and Non-Sterile in the following VAI products:
  - DEC-PHENE®
  - DEC-CYCLE®
  - DEC-PHASE®
  - DEC-QUAT 100®
  - DEC-Clean®
  - DEC-SPORE 200 Plus®

## 1 GALLON STERILE

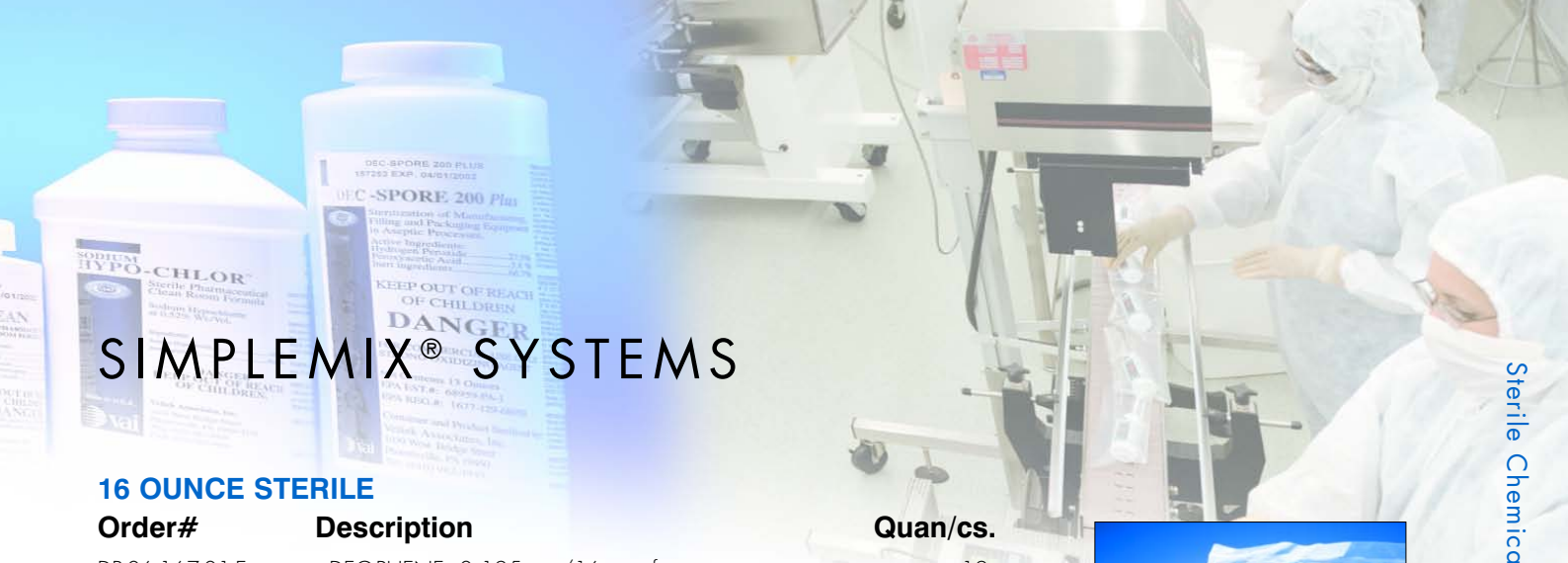
| Order# | Description | Quan/cs. |
|---|---|---|
| DP-04-1Z-E | DEC-PHENE 1:128 use dilution 1 gal. mixture | 4 |
| DPH-04-1/2-Z-E | DEC-PHASE 0.5:128 use dilution 1 gal. mixture | 4 |
| DCY-04-1/2Z-E | DEC-CYCLE 0.5:128 use dilution 1 gal. mixture | 4 |
| DQ100-04-2Z-E | DEC-QUAT 2:128 use dilution 1 gal. mixture | 4 |
| DC-04-1Z-E | DEC-Clean 1:128 use dilution 1 gal. mixture | 4 |
| DS200-04-1/2ZA-E | DEC-SPORE 200 Plus 0.5:128 use dilution 1 gal. mixture | 4 |
| DS200-04A-E | DEC-SPORE 200 Plus 6.4:128 use dilution 1 gal. mixture | 4 |

## 1 GALLON NON-STERILE

| Order# | Description | Quan/cs. |
|---|---|---|
| DP-05-1Z-E | DEC-PHENE 1:128 use dilution 1 gal. mixture | 4 |
| DPH-05-1/2Z-E | DEC-PHASE 0.5:128 use dilution 1 gal. mixture | 4 |
| DCY-05-1/2Z-E | DEC-CYCLE 0.5:128 use dilution 1 gal. mixture | 4 |
| DQ100-05-2Z-E | DEC-QUAT 2:128 use dilution 1 gal. mixture | 4 |
| DC-05-1Z-E | DEC-Clean 1:128 use dilution 1 gal. mixture | 4 |
| DS200-05-1/2ZA-E | DEC-SPORE 200 Plus 0.5:128 use dilution 1 gal. mixture | 4 |
| DS200-05A-E | DEC-SPORE 200 Plus 6.4:128 use dilution 1 gal. mixture | 4 |



610-644-8335




# SIMPLEMIX® SYSTEMS



## 16 OUNCE STERILE

| Order# | Description | Quan/cs. |
|---|---|---|
| DP-06-16Z-01-E | DEC-PHENE 0.125 oz./16 oz of water | 12 |
| DP-06-16Z-02-E | DEC-PHENE 0.250 oz./16 oz of wate | 12 |
| DCY-06-16Z-01-E | DEC-CYCLE 0.0625 oz./16 oz of water | 12 |
| DCY-06-16Z-02-E | DEC-CYCLE 0.125 oz./16 oz of water | 12 |
| DPH-06-16Z-01-E | DEC-PHASE 0.0625 oz./16 oz of water | 12 |
| DQ100-06-16Z-01-E | DEC-QUAT 0.250 oz./16 oz of water | 12 |
| DS200-06-16Z-01-E | DEC-SPORE 200 Plus Sterilant 0.8/16 oz of water | 12 |
| DS200-06-16Z-02-E | DEC-SPORE 200 Plus Disinfectant 0.0625 oz./16 oz of water | 12 |
| DC-06-16Z-01-E | DEC-Clean 0.125 oz./16 oz of water | 12 |


## 16 OUNCE NON-STERILE

| Order# | Description | Quan/cs. |
|---|---|---|
| DP-07-16Z-01-E | DEC-PHENE 0.125 oz./16 oz of water | 12 |
| DP-07-16Z-02-E | DEC-PHENE 0.250 oz./16 oz of water | 12 |
| DCY-07-16Z-01-E | DEC-CYCLE 0.0625 oz./16 oz of water | 12 |
| DCY-07-16Z-02-E | DEC-CYCLE 0.125 oz./16 oz of water | 12 |
| DPH-07-16Z-01-E | DEC-PHASE 0.0625 oz./16 oz of water | 12 |
| DQ100-07-16Z-01-E | DEC-QUAT 0.250 oz./16 oz of water | 12 |
| DS200-07-16Z-01-E | DEC-SPORE 200 Plus Sterilant 0.8/16 oz of water | 12 |
| DS200-07-16Z-02-E | DEC-SPORE 200 Plus Disinfectant 0.0625 oz./16 oz of water | 12 |
| DC-07-16Z-01-E | DEC-Clean 0.125 oz./16 oz of water | 12 |

## 32 OUNCE STERILE

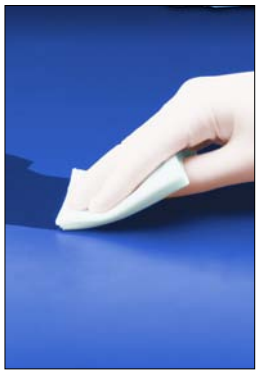
| Order# | Description | Quan/cs. |
|---|---|---|
| DP-08-32Z-01-E | DEC-PHENE 32 oz. 0.25 oz./gallon of water Sterile | 8 |
| DP-08-32Z-02-E | DEC-PHENE 32 oz. 0.50 oz./gallon of water Sterile | 8 |
| DP-09-32Z-01-E | DEC-PHENE 32 oz. 0.25 oz./gallon of water Non-Sterile | 8 |
| DP-09-32Z-02-E | DEC-PHENE 32 oz. 0.50 oz./gallon of water Non-Sterile | 8 |
| DCY-08-32Z-01-E | DEC-CYCLE 32 oz.0.125 oz/gallon of water Sterile | 8 |
| DCY-08-32Z-02-E | DEC-CYCLE 32 oz 0.25 oz/gallon of water Sterile | 8 |
| DCY-09-32Z-01-E | DEC-CYCLE 32 oz 0.125 oz/gallon of water Non-Sterile | 8 |
| DCY-09-32Z-02-E | DEC-CYCLE 32 oz 0.25 oz/gallon of water Non-Sterile | 8 |
| DPH-08-32Z-01-E | DEC-PHASE 32 oz.0.125 oz/gallon of water Sterile | 8 |
| DPH-09-32Z-02-E | DEC-PHASE 32 oz.0.125 oz/gallon of water Non-Sterile | 8 |
| DQ100-08-32Z-01-E | DEC-QUAT 32 oz.0.50 oz/gallon of water Sterile | 8 |
| DQ100-09-32Z-02-E | DEC-QUAT 32 oz.0.50 oz/gallon of water Non-Sterile | 8 |
| DS200-08-32Z-01-E | DEC-SPORE 200 Plus 32 oz.0.125 oz./gallon of water Sterile | 8 |
| DS200-08-32Z-02-E | DEC-SPORE 200 Plus 32 oz.1.6 oz./gallon of water Sterile | 8 |
| DS200-09-32Z-01-E | DEC-SPORE 200 Plus 32 oz.0.125 oz./gallon of water Non-Sterile | 8 |
| DS200-09-32Z-02-E | DEC-SPORE 200 Plus 32 oz.1.6 oz./gallon of water Non-Sterile | 8 |

## AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

SimpleMix Product Validation
Technical Data File

# ALCOH-WIPE® & ALCOH-GLOVE® STERILE SINGLES

## SATURATED WITH 70% USP ISOPROPYL ALCOHOL





ALCOH-WIPE, & ALCOH-GLOVE, are designed for sterile operations that demand the use of an individually packaged sterile saturated wipe.

### ALCOH-WIPE IS:

- Saturated with DEC-AHOL®, WFI 70% USP Isopropyl Alcohol
- Individually packaged sterile wipe
- Available in a variety of sizes:
  - 6 inch x 6 inch
  - 12 inch x 12 inch
  - 18 inch x 18 inch
- A polyester blend that is inherently low in particulate and shedding features
- Excellent for pharmaceutical and biotechnology industries
- Filtered at 0.2 Microns
- Gamma irradiated through a validated cycle
- Delivered with lot specific Certificate of Irradiation, Certificate of Analysis and Sterility Test Report
- Completely validated for sterility and shelf life

### ALCOH-GLOVE IS:

- Remarkable innovation that resembles a dust mitten
- A non-linting, non-shedding polyester tube that is sewn at one end and then turned inside out
- Contoured to provide 100% coverage of the hand
- Saturated with DEC-AHOL WFI 70% USP Isopropyl Alcohol
- Individually packaged sterile wipe
- Filtered at 0.2 Microns
- Gamma irradiated through a validated cycle
- Delivered with lot specific Certificate of Irradiation, Certificate of Analysis and Sterility Test Report
- Completely traceable
- Completely validated for sterility and shelf life

| Order# | Description | Quan/cs. |
|---|---|---|
| VEL6-6X6 | ALCOH-WIPE 6" X 6" Flat Wipe Non-Sterile | 100 |
| VEL6-6X6-S | ALCOH-WIPE 6" X 6" Flat Wipe Sterile | 100 |
| VEL6-12X12 | ALCOH-WIPE 12" X 12" Flat Wipe Non-Sterile | 100 |
| VEL6-12X12-S | ALCOH-WIPE 12" X 12" Flat Wipe Sterile | 100 |
| VEL6-18X18 | ALCOH-WIPE 18" X 18" Flat Wipe Non-Sterile | 100 |
| VEL6-18X18-S | ALCOH-WIPE 18" X 18" Flat Wipe Sterile | 100 |
| VEL12-12x12x12-S | ETHANOL-WIPE 12" X 12" Flat Wipe Sterile | 100 |
| AG-02 | ALCOH-GLOVE Contoured Wipe Non-Sterile | 100 |
| AG-04 | ALCOH-GLOVE Contoured Wipe Sterile | 100 |

### AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

AHOL-WIPE/ALCOH-GLOVE Product Validation
Technical Data File


# DEC-HAND®

## INSTANT HAND SANITIZER

DEC-HAND is a gelled alcohol hand sanitizer for hand washing to decrease bacteria on the skin.

### DEC-HAND:

- Is used by applying thoroughly to the hands and allowed to dry without wiping (use no water or towels)
- Is Double-bagged packaged
- Is Gamma irradiated
- Manufactured in accordance with 21 CFR Part 211 Good Manufacturing Practices for DRUGS and the Tentative Final Monograph for Topical Antimicrobial Drug Products for Over-the-Counter use
- Can be used with the DH-100 dispenser/holder system or the Asepti-Cleanse hands-free dispenser
- Is completely tested according to current USP compendium
- Is delivered with lot specific sterile documentation
- Is completely validated for sterility and shelf life



**USES: DEC-HAND is used as an instant hand sanitizer before glove doning.**

| Order# | Description | Quan/cs. |
|---|---|---|
| DH-04-E | DEC-HAND 16 oz. Non-sterile | 12 |
| DH-06-E | DEC-HAND 16 oz. Sterile | 12 |
| DH-07-E | DEC-HAND Non-Sterile Hand Sanitizer Bags, 32 oz. (944 mL) *fill for Asepti-Cleanse Dispenser* | 8 |
| DH-08-E | DEC-HAND Sterile Hand Sanitizer Bags, 32 oz. (944 mL) fill double bag packaged, filtered at 0.2 microns and gamma irradiated *for Asepti-Cleanse Dispenser* | 8 |
| DH-100 | DEC-HAND Wall Dispenser (316L Stainless) | 1 |
| DH-200 | ASEPTI-CLEANSE Dispenser for DEC-AHOL or DEC-HAND *Operates on 4 D-Cell Batteries* | 1 |
| DH-201 | ASEPTI-CLEANSE Dispenser for DEC-AHOL or DEC-HAND *Operates on 4 D-Cell Batteries or 110V Direct connections* | 1 |

## AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

DEC-HAND Product Validation
Technical Data File

# ASEPTI-CLEANSE®

## HANDS-FREE DEC-AHOL® WFI/DEC-HAND® DISPENSER


ASEPTI-CLEANSE dispenser is a hands-free dispenser for DEC-AHOL WFI and DEC-HAND. The system has been designed by VAI as the most advanced infrared sensor dispensing system available in the pharmaceutical and biotechnology industries. The dispensing unit is designed to meet the requirements of cGMP clean room operations.

### ASEPTI-CLEANSE Dispensing System:

- Is a sealed unit that protects the coated internal electronics
- Is photo-eye operated. Just place your hand underneath and it dispenses a pre-measured dose to the hand without contact of the person to the unit
- Can be adjusted to dispense 1, 3 or 5 mLs
- Is designed in a dual power configuration of power supply. It can be powered by 4 D Cell batteries (4 D Cells last over 1 year) or connected to a 110 Volt receptacle. In the electrically mounted installation, one has the backup of the battery power if a failure in the power line occurs due to an abnormal situation
- Mounts directly on glass or walls
- Is water resistant in design
- Is small. It measures 12 inch long x 5 inches wide x 2 inches high and has a keyless opening and closing system

| Order# | Description | Quan/cs. |
|---|---|---|
| DEC-200 | ASEPTI-CLEANSE Dispenser for DEC-AHOL or DEC-HAND *Operates on 4 D-Cell Batteries* | 1 |
| DEC-201 | ASEPTI-CLEANSE Dispenser for DEC-AHOL or DEC-HAND *Operates on 4 D-Cell Batteries or 110V direct connections* | 1 |
| DH-07-E | DEC-HAND Non-Sterile Hand Sanitizer Bags, 32 oz. (944 mL) *fill for Asepti-Cleanse Dispenser* | 8 |
| DH-08-E | DEC-HAND Sterile Hand Sanitizer Bags, 32 oz. (944 mL) fill double bag packaged, filtered at 0.2 microns and gamma irradiated *for Asepti-Cleanse Dispenser* | 8 |
| DECWFI-BAG-01-E | DEC-AHOL WFI Sterile 70% USP IPA Bags, 32 oz. (944 mL) fill double bag packaged, filtered at 0.2 microns and gamma irradiated *for Asepti-Cleanse Dispenser* | 8 |

### AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

Technical Data File


# ALCOHOL DISPENSERS

## FOR USE WITH VAI ALCOHOL PRODUCTS

Several options exist to further simplify the dispensing of our DEC-AHOL WFI® and STER-AHOL WFI® products. The hand activated and hands-free dispensing mechanisms (DEC-50 and DEC-100) assure the elimination of cross contamination from user to user during handling of the alcohol container. The bulk container mechanisms (200-P and 300-T) simplify dispensing of the product while delivering dosed quantities to prevent overuse of the product.

### DEC-50 Hand-Activated Dispenser:

- Easy back of hand dispensing
- 316L Stainless Steel construction
- Dispensing mechanism easily slides on and off a permanently installed wall plate that incorporates welded pin connectors
- Autoclavable

### DEC-100 Hands-Free Dispenser:

- Foot petal operated
- 316L Stainless Steel construction
- Permanently mounts to clean room or gowning area wall
- Incorporates a safety glass over spray protector window and foot petal attached by chain

### 200-P Gallon Pump Dispenser:

- Attaches to DEC-AHOL WFI and STER-AHOL WFI 1 gallon containers
- Top lever dispenses a specified dose of alcohol
- Double bagged packaged
- Gamma irradiated

### 300-T Gallon Trigger Sprayer:

- Attaches to DEC-AHOL WFI and STER-AHOL WFI 1 gallon containers
- Trigger sprayer dispenses a specified dose of alcohol
- Incorporates an extended hose from the top of the 1 gallon container to the trigger sprayer for hard to reach areas
- Double bagged packaged
- Gamma irradiated

| Order# | Description | Quan/cs. |
|---|---|---|
| DEC-501 | Hands-Free Back of Hand Activated Dispenser | 1 |
| DEC-100 | Hands-Free Foot Pedal Activated Dispenser | 1 |
| 200-P | 1 Gallon Pump Spray Dispenser Sterile | 4 |
| 300-T | 1 Gallon Trigger Spray Dispenser Sterile | 4 |

### AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

Technical Data File




# DEC-PHENE®

## STERILE PHARMACEUTICAL CLEAN ROOM FORMULA

DEC-PHENE is a sodium based, phosphate free phenolic synthetic germicidal detergent that is used where a broad spectrum disinfectant is required in moderate amounts of organic soil.

### DEC-PHENE is:

- Filtered at 0.2 Microns
- Double-bagged packaged
- Gamma irradiated
- Strong enough to kill a broad spectrum of pathogenic and non-pathogenic bacteria
- Mild enough to have no harmful effect on the surface being disinfected
- Detergent that has efficacy performance that confirms to AOAC protocol testing at a use dilution of 1:128 in the presence of 5% blood serum at 20 degrees Celsius with an exposure time of 10 minutes
- Completely tested according to current USP compendium
- Delivered with lot specific Certificate of Analysis, and Sterility Report, Certificate of Irradiation
- Completely traceable
- Completely validated for sterility and shelf life

**USES: DEC-PHENE is used for the decontamination of:**

- Walls
- Ceilings
- Floors

| Order# | Description | Quan/cs. |
|---|---|---|
| DP-01-E | DEC-PHENE Gallon Non-Sterile | 4 |
| DP-02-E | DEC-PHENE Gallon Sterile | 4 |
| DP-08-32Z-01-E | DEC-PHENE 32 oz 0.25 oz/gallon of water Sterile | 12 |
| DP-08-32Z-02-E | DEC-PHENE 32 oz 0.50 oz/gallon of water Sterile | 12 |
| DP-09-32Z-01-E | DEC-PHENE 32 oz 0.25 oz/gallon of water Non-sterile | 12 |
| DP-09-32Z-02-E | DEC-PHENE 32 oz 0.50 oz/gallon of water Non-sterile | 12 |
| DP-03-8Z-E | DEC-PHENE 8 oz. Sterile | 24 |
| DP-03-4Z-E | DEC-PHENE 4 oz. Sterile | 24 |
| DP-03-2Z-E | DEC-PHENE 2 oz. Sterile | 24 |
| DP-03-1Z-E | DEC-PHENE 1 oz. Sterile | 24 |
| DP-04-1Z-E | DEC-PHENE 1:128 use dilution SimpleMix® Sterile | 4 |
| DP-05-1Z-E | DEC-PHENE 1:128 use dilution SimpleMix® NonSterile | 4 |
| DP-06-16Z-01-E | DEC-PHENE 0.125 oz./16 oz. WFI Water SimpleMix® Sterile | 12 |
| DP-07-16Z-01-E | DEC-PHENE 0.125 oz./16 oz. WFI Water SimpleMix® NonSterile | 12 |
| DP-06-16Z-02-E | DEC-PHENE 0.250 oz./16 oz. WFI Water SimpleMix® Sterile | 12 |
| DP-07-16Z-02-E | DEC-PHENE 0.250 oz./16 oz. WFI Water SimpleMix® NonSterile | 12 |

### AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

DEC-PHENE Product Validation
Technical Data File


# DEC-PHASE®

## STERILE PHARMACEUTICAL CLEAN ROOM FORMULA

DEC-PHASE is a potassium-based phenolic germicidal solution.

### DEC-PHASE is:

- Filtered at 0.2 Microns
- Double-bagged packaged
- Gamma irradiated
- Used where a broad spectrum of disinfection is required in moderate amounts of organic soil
- Strong enough to kill a broad spectrum of pathogenic and non-pathogenic bacteria
- Mild enough to have no harmful effect on the surface being disinfected
- A phosphate free germicidal detergent that has efficacy performance which has been confirmed using AOAC protocol testing at a use dilution of 1:256 in the presence of 5% blood serum at 20 degrees Celsius with an exposure time of 10 minutes
- Completely tested according to current USP compendium
- Delivered with lot specific Certificate of Analysis and Sterility Report, Certificate of Irradiation
- Completely traceable
- Completely validated for sterility and shelf life


**USES: DEC-PHASE is used for the decontamination of:**

- Walls
- Ceilings
- Floors

| Order# | Description | Quan/cs. |
|---|---|---|
| DPH-01-E | DEC-PHASE Gallons Non-Sterile | 4 |
| DPH-02-E | DEC-PHASE Gallons Sterile | 4 |
| DPH-08-32Z-01-E | DEC-PHASE 32 oz 0.125 oz/gallon of water Sterile | 12 |
| DPH-09-32Z-02-E | DEC-PHASE 32 oz 0.125 oz/gallon of water Non-Sterile | 12 |
| DPH-03-2Z-E | DEC-PHASE 2 oz. Sterile | 24 |
| DPH-04-1/2Z-E | DEC-PHASE 0.5/128 use dilution SimpleMix® Sterile | 4 |
| DPH-05-1/2Z-E | DEC-PHASE 0.5/128 use dilution SimpleMix® NonSterile | 4 |
| DPH-06-16Z-01-E | DEC-PHASE 0.0625 oz./16 oz. WFI water SimpleMix® Sterile | 12 |
| DPH-07-16Z-02-E | DEC-PHASE 0.0625 oz./16 oz. WFI water SimpleMix® NonSterile | 12 |

### AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

DEC-PHASE Product Validation
Technical Data File

# DEC-CYCLE®

## STERILE PHARMACEUTICAL CLEAN ROOM FORMULA

DEC-CYCLE is a phosphate free germicidal detergent.

### DEC-CYCLE is:

- Filtered at 0.2 Microns
- Double-bagged packaged
- Gamma irradiated
- A low pH phenolic, dilutable, hospital detergent effective in 10 minutes at 20 degrees Celsius in hard water up to 400 ppm (calculated as CaCO3) in the presence of 5% blood serum.
- Recommended for use in pharmaceutical, biotechnology, medical device manufacturing, hospitals and any health care institutions that are dedicated to controlling the hazards of cross contamination
- A multi-phenolic formula designed to clean, disinfect, and deodorize any washable inanimate surface
- Strong enough to kill a broad spectrum of pathogenic bacteria
- Mild enough to have no harmful effect on the surface being disinfected
- Completely tested according to current USP compendium
- Delivered with lot specific Certificate of Analysis and Sterility Report, Certificate of Irradiation
- Completely traceable
- Completely validated for sterility and shelf life

### USES: DEC-CYCLE is for use on:

- Hard, inanimate surfaces in filling and gowning rooms
- General manufacturing areas
- Machinery tables
- Countertops
- Laminar flow benches
- Floors
- Walls
- Stainless steel
- Porcelain
- Glass
- Chrome

| Order# | Description | Quan/cs. |
|---|---|---|
| DCY-01-E | DEC-CYCLE 1 Gallon Non-Sterile | 4 |
| DCY-02-E | DEC-CYCLE 1 Gallon Sterile | 4 |
| DCY-08-32Z-01-E | DEC-CYCLE 32 oz 0.125 oz/gallon of water Sterile | 12 |
| DCY-08-32Z-02-E | DEC-CYCLE 32 oz 0.25 oz/gallon of water Sterile | 12 |
| DCY-09-32Z-01-E | DEC-CYCLE 32 oz 0.125 oz/gallon of water Non-sterile | 12 |
| DCY-09-32Z-02-E | DEC-CYCLE 32 oz 0.25 oz/gallon of water Non-sterile | 12 |
| DCY-03-2Z-E | DEC-CYCLE 2 oz. Sterile | 24 |
| DCY-03-1Z-E | DEC-CYCLE 1 oz. Sterile | 24 |
| DCY-04-1/2Z-E | DEC-CYCLE 0.5/128 use dilution SimpleMix® Sterile | 4 |
| DCY-05-1/2Z-E | DEC-CYCLE 0.5/128 use dilution SimpleMix® NonSterile | 4 |
| DCY-06-16Z-01-E | DEC-CYCLE 0.0625 oz./16 oz. WFI water SimpleMix® Sterile | 12 |
| DCY-07-16Z-01-E | DEC-CYCLE 0.0625 oz./16 oz. WFI water SimpleMix® NonSterile | 12 |
| DCY-06-16Z-02-E | DEC-CYCLE 0.125 oz./16 oz. WFI water SimpleMix® Sterile | 12 |
| DCY-07-16Z-02-E | DEC-CYCLE 0.125 oz./16 oz. WFI water SimpleMix® NonSterile | 12 |

### AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

DEC-CYCLE Product Validation
Technical Data File


# PHENE-AHOL® SPRAY

## SPRAY DISINFECTANT

PHENE-AHOL Spray is a combination of phenol and ethyl alcohol.




### PHENE-AHOL is:

- Filtered at 0.2 Microns
- Double-bagged packaged
- Gamma irradiated
- Designed as a surface disinfectant and deodorant for moderate amounts of organic soil
- Quick-drying
- Leaves no oil, film or minimal residues
- Non-corrosive
- Strong enough to kill a broad spectrum of pathogenic and non-pathogenic bacteria
- Mild enough to have no harmful effect on the surface being disinfected
- A surface disinfectant that has efficacy performance which has been confirmed using AOAC protocol testing at a use dilution of 0.21% o-phenylphenol and 69.623% ethyl alcohol in the presence of 5% blood serum at 25 degrees Celsius at an exposure time of 10 minutes
- Completely tested according to current USP compendium
- Delivered with lot specific Certificate of Analysis and Sterility Report
- Completely traceable
- Completely validated for sterility and shelf life

**USES: PHENE-AHOL Spray is used for decontamination of:**

- Gloves
- Surfaces
- Carts
- Countertops
- Process lines
- Aseptic connections

| Order# | Description | Quan/cs. |
|---|---|---|
| PA-02 | PHENE-AHOL 16 oz. Sterile | 12 |

### AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

Technical Data File

# DEC-CLEAN®

## STERILE CLEAN ROOM FORMULA

DEC-Clean is a cleaning agent designed to remove residues from disinfecting agents.

### DEC-CLEAN is:

- Filtered at 0.2 Microns
- Double-bagged packaged
- Gamma irradiated
- One-step residue remover when diluted to 1:128 (1 ounce/1 gallon) of hard or soft water (400 ppm hard as CaCO3)
- Designed for washable, non-porous environmental surfaces
- Completely tested according to current USP compendium
- Delivered with lot specific Certificate of Analysis and Sterility Report
- Completely traceable
- Completely validated for sterility and shelf life

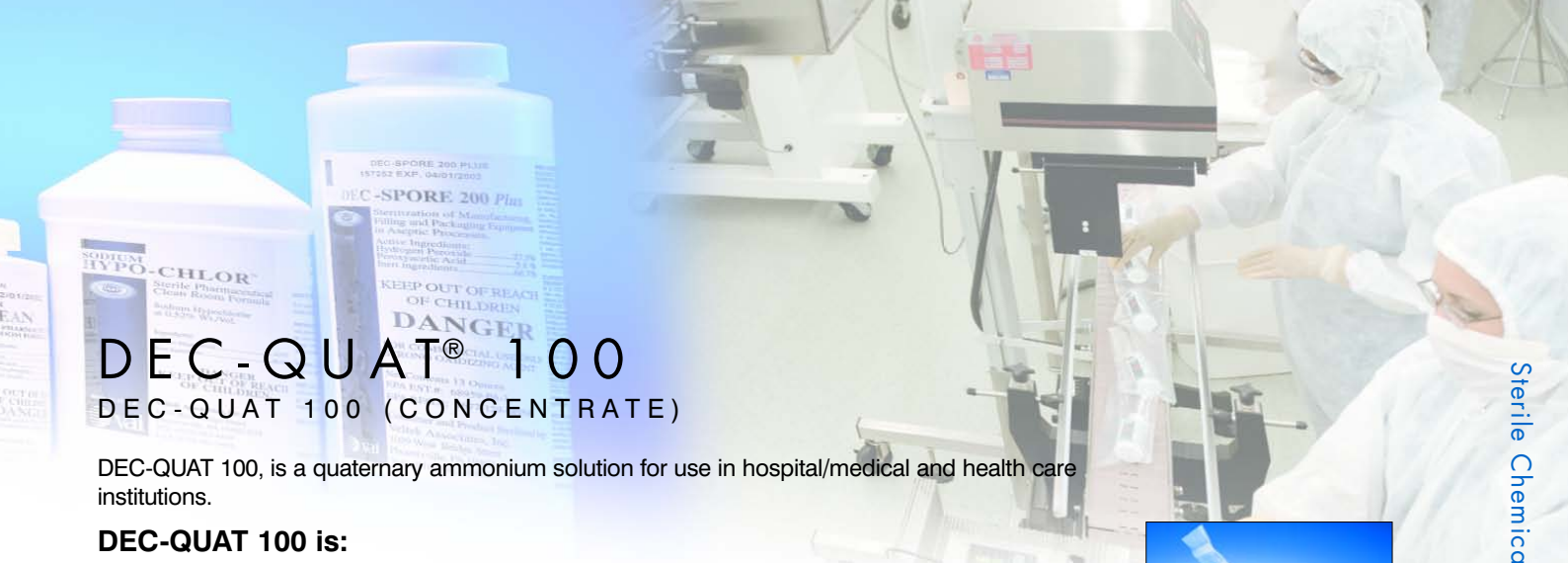
**USES: DEC-CLEAN is used for:**

- Walls
- Ceilings
- Floors
- Stainless items

| Order# | Description | Quan/cs. |
|---|---|---|
| DC-01-E | DEC-Clean Gallons Non-Sterile | 4 |
| DC-02-E | DEC-Clean Gallons Sterile | 4 |
| DC-03-4Z-E | DEC-Clean 4 oz. Sterile | 24 |
| DC-04-1Z-E | DEC-Clean 1/128 use dilution SimpleMix® Sterile | 4 |
| DC-05-1Z-E | DEC-Clean 1/128 use dilution SimpleMix® NonSterile | 4 |
| DC-06-16Z-01-E | DEC-Clean 0.125 oz./16 oz. use dilution SimpleMix® Sterile | 12 |
| DC-07-16Z-01-E | DEC-Clean 0.125 oz./16 oz. use dilution SimpleMix® NonSterile | 12 |

### AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

DEC-Clean Product Validation
Technical Data File




# DEC-QUAT® 100

## DEC-QUAT 100 (CONCENTRATE)

DEC-QUAT 100, is a quaternary ammonium solution for use in hospital/medical and health care institutions.

### DEC-QUAT 100 is:

- Filtered at 0.2 Microns
- Double-bagged packaged
- Gamma irradiated
- Effective as a broad spectrum hospital disinfectant, fungicide, deodorizer, hard surface disinfectant, food and non-food contact sanitizer (USDA D2)
- Effective against Pseudomonas aeruginosa, Staphylococcus aureus and Salmonella choleraesuis
- Effective against Hepatitis B Virus (HBV) when contact time is 10 minutes at 1 ounce/1 gallon of water*
- A product that also kills Human Immunodeficiency Virus Type 1 (HIV) after 30 seconds contact time*
- A concentrate solution with active ingredients of 5% Alkyl (C14, 60%; C16, 30%; C12, 5%; C18, 5%) Dimethyl Benzyl Ammonium Chloride and 5% Akly (C12, 68%; C14, 32%) Dimethyl Ethylbenzyl Ammonium Chloride, and 90% Inert Ingredients
- Completely tested according to current USP compendium
- Delivered with lot specific Certificate of Analysis and Sterility Report
- Completely traceable
- Completely validated for sterility and shelf life

**USES: DEC-QUAT 100 is used as a disinfectant on inanimate, hard, non-porous environmental surfaces such as:**

- Walls
- Ceilings
- Floors
- Countertops

*SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATING AGAINST HIV-1 AND HBV OR SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS

| Order# | Description | Quan/cs. |
|---|---|---|
| DQ100-01-E | DEC-QUAT 100 - 1 Gallon Concentrate Non-Sterile | 4 |
| DQ100-02-E | DEC-QUAT 100 - 1 Gallon Concentrate Sterile | 4 |
| DQ100-03-8Z-E | DEC-QUAT 100 - 8 oz. Concentrate Bottle Sterile | 24 |
| DQ100-04-2Z-E | DEC-QUAT 100 2/128 use dilution SimpleMix® Sterile | 4 |
| DQ100-05-2Z-E | DEC-QUAT 100 2/128 use dilution SimpleMix® NonSterile | 4 |
| DQ100-06-16Z-01-E | DEC-QUAT 100 0.250 oz./16 oz. WFI water SimpleMix® Sterile | 12 |
| DQ100-07-16Z-01-E | DEC-QUAT 100 0.250 oz./16 oz. WFI water SimpleMix® NonSterile | 12 |

## AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

DEC-QUAT Product Validation
Technical Data File

# HYPO-CHLOR®

## STERILE CLEAN ROOM FORMULA

HYPO-CHLOR is a sterile sodium Hypochlorite solution.

### HYPO-CHLOR is:

- Filtered at 0.2 Microns
- Double-bagged packaged
- Ready-to-use
- Available in premixed concentrations of 5.25%, 0.52% and 0.25%
- Formulated with USP Purified Water
- Completely tested according to current USP compendium
- Delivered with lot specific Certificate of Analysis and Sterility Report
- Completely traceable
- Completely validated for sterility and shelf life

**USES: HYPO-CHLOR is used for:**

- Walls
- Ceilings
- Floors
- Surfaces

| Order# | Description | Quan/cs. |
|---|---|---|
| SHC-01-5.25 | HYPO-CHLOR Gallons Non-Sterile @ 5.25% | 4 |
| SHC-02-5.25 | HYPO-CHLOR Gallons Sterile @ 5.25% | 4 |
| SHC-02-0.52 | HYPO-CHLOR Gallons Sterile @ 0.52% | 4 |
| SHC-02-0.25 | HYPO-CHLOR Gallons Sterile @ 0.25% | 4 |
| SHC-16Z-5.25 | HYPO-CHLOR 16 oz. Sterile @ 5.25% | 12 |
| SHC-16Z-0.52 | HYPO-CHLOR 16 oz. Sterile @ 0.52% | 12 |
| SHC-16Z-0.25 | HYPO-CHLOR 16 oz. Sterile @ 0.25% | 12 |
| SHC-13Z-5.25 | HYPO-CHLOR 13 oz. Sterile @ 5.25% | 12 |

### AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

HYPO-CHLOR Product Validation
Technical Data File


# STERI-PEROX®

## STERILE CLEAN ROOM FORMULA

STERI-PEROX is a sterile hydrogen peroxide solution.

### STERI-PEROX is:

- Filtered at 0.2 Microns
- Double-bagged packaged
- Available in two premixed concentrations – 3% and 6%
- Formulated with USP Purified Water
- Ready-to-use
- Completely tested according to current USP compendium
- Delivered with lot specific Certificate of Analysis and Sterility Report
- Completely traceable
- Completely validated for sterility and shelf life

**USES: STERI-PEROX is used for:**

- Walls
- Ceilings
- Floors
- Surfaces


| Order# | Description | Quan/cs. |
|---|---|---|
| SPER-01-3% | STERI-PEROX Gallons Non-Sterile @ 3% | 4 |
| SPER-01-6% | STERI-PEROX Gallons Non-Sterile @ 6% | 4 |
| SPER-02-3% | STERI-PEROX Gallons Sterile @ 3% | 4 |
| SPER-02-6% | STERI-PEROX Gallons Sterile @ 6% | 4 |
| SPER-16Z-3% | STERI-PEROX 16 oz. Sterile @ 3% | 12 |
| SPER-16Z-6% | STERI-PEROX 16 oz. Sterile @ 6% | 12 |
| SPER-WFI-55-3% | STERI-PEROX 55 Gallon Sterile @ 3% | 1 |

### AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

STERI-PEROX Product Validation
Technical Data File

# DEC-SPORE® 200 *PLUS*

## STERILE CLEAN ROOM FORMULA

DEC-SPORE 200 Plus is a peracetic acid and hydrogen peroxide solution that can be used as either a steriliant or disinfectant.

### DEC-SPORE 200 Plus is:

- Filtered at 0.2 Microns
- Gamma irradiated
- Designed for the sterilization of manufacturing, packaging and filling equipment in aseptic processes.
- Confirmed by AOAC protocol testing at a dilution of 5% (6.4 ounces/128 ounces) in hard or soft water (500 ppm as CaCO3) for sterilization
  - Suggested to be exposed to the surface for a minimum exposure time based on the temperature of the solution:
    - 68 degrees, 6 hours
    - 122 degrees, 20 minutes
    - 176 degrees, 5 minutes
- Confirmed by AOAC protocol testing at a dilution of 0.3% (0.394 ounces/1 gallon) in hard or soft water for disinfection
  - Suggested to be exposed to the surface for 10 minutes at 20 degrees Celsius in the presence of 5% blood serum and soap film on a non-porous surface
- Completely tested according to current USP compendium
- Delivered with lot specific Certificate of Analysis and Sterility Report
- Completely traceable
- Completely validated for sterility and shelf life

**USES: DEC-SPORE 200 Plus is used for:**

• Walls • Ceilings • Floors • Surfaces

| Order# | Description | Quan/cs. |
|---|---|---|
| DS200-01A-E | DEC-SPORE 200 Plus 1-Gallon Non-Sterile | 4 |
| DS200-02A-E | DEC-SPORE 200 Plus 1-Gallon Sterile | 4 |
| DS200-08-32Z-01-E | DEC-SPORE 200 Plus 32 oz 0.125 oz/gallon of water Sterile | 12 |
| DS200-08-32Z-02-E | DEC-SPORE 200 Plus 32 oz 1.60 oz/gallon of water Sterile | 12 |
| DS200-09-32Z-01-E | DEC-SPORE 200 Plus 32 oz 0.125 oz/gallon of water Non-sterile | 12 |
| DS200-09-32Z-02-E | DEC-SPORE 200 Plus 32 oz 1.60 oz/gallon of water Non-sterile | 12 |
| DS200-03-13ZA-E | DEC-SPORE 200 Plus 13oz. Sterile *(Unit Dose sterilant w/2 gal of water)* | 12 |
| DS200-03-2ZA-E | DEC-SPORE 200 Plus 2oz. Sterile *(Unit Dose disinfectant w/4 gal of water)* | 24 |
| DS200-03-1ZA-E | DEC-SPORE 200 Plus 1 oz. Sterile | 24 |
| DS200-04-1/2ZA-E | DEC-SPORE 200 Plus 0.5/128 use dilution SimpleMix® Sterile | 4 |
| DS200-05-1/2ZA-E | DEC-SPORE 200 Plus 0.5/128 use dilution SimpleMix® NonSterile | 4 |
| DS200-04A-E | DEC-SPORE 200 Plus 6.4/128 use dilution SimpleMix® Sterile | 4 |
| DS200-05A-E | DEC-SPORE 200 Plus 6.4/128 use dilution SimpleMix® NonSterile | 4 |
| DS200-06-16Z-01-E | DEC-SPORE 200 Plus 0.8 oz./16 oz. WFI water SimpleMix® Sterile | 12 |
| DS200-07-16Z-01-E | DEC-SPORE 200 Plus 0.8 oz./16 oz. WFI water SimpleMix® NonSterile | 12 |
| DS200-06-16Z-02-E | DEC-SPORE 200 Plus 0.0625 oz./16 oz. WFI water SimpleMix® Sterile | 12 |
| DS200-07-16Z-02-E | DEC-SPORE 200 Plus 0.0625 oz./16 oz. WFI water SimpleMix® NonSterile | 12 |

## AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

DEC-SPORE 200 Plus Product Validation
Technical Data File


# STERI-WATER®

## STERILE CLEAN ROOM FORMULA

STERI-WATER is a sterile USP Purified Water.

### VAI WFI QUALITY WATER is:

- Filtered at 0.2 Microns
- Double-bagged packaged
- Gamma irradiated
- Ready-to-use
- Completely tested according to current USP compendium
- Delivered with lot specific Certificate of Analysis and Sterility Report
- Completely traceable
- Completely validated for sterility and shelf life

**USES: STERI-WATER is used where the availability of a quality water grade is necessary in:**

- Chemical formulation
- Cleaning
- Rinsing

| Order# | Description | Quan/cs. |
|---|---|---|
| STWA-01 | STERI-WATER Gallons Non-Sterile | 4 |
| STWA-02 | STERI-WATER Gallons Sterile | 4 |
| STWA-16Z | STERI-WATER 16 oz. Sterile | 12 |
| STWA-2G | STERI-WATER 2 Gallons Sterile | 2 |
| STWA-5G | STERI-WATER 5 Gallons Sterile | 1 |

### AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

STERI-WATER Product Validation
Technical Data File



# VAI WFI QUALITY WATER®

## FOR STERILE DISINFECTANT DILUTIONS IN CLEAN ROOM OPERATIONS

VAI WFI QUALITY WATER is a high quality water produced from our validated WFI water system.

### VAI WFI QUALITY WATER is:

- Filtered at 0.2 Microns
- Double-bagged packaged
- Gamma irradiated
- Manufactured in a GMP, Class 100 (ISO 5, Grade A) area
- An excellent choice for dilution of disinfectant concentrates to a use-dilution mixture
- Tested for assay, sterility and endotoxin levels
- Completely tested according to current USP compendium
- Delivered with lot specific Certificate of Analysis and Sterility Report
- Completely traceable
- Completely validated for sterility and shelf life

### USES: VAI WFI QUALITY WATER is:

- For disinfectant preparation and dilution
- Not for parenteral administration

| Order# | Description | Quan/cs. |
|---|---|---|
| VAIWFI-16Z | VAI WFI Quality Water 16 oz Trigger Spray Container Sterile | 12 |
| VAIWFI-1G | VAI WFI Quality Water 1 Gallon Container Sterile | 4 |
| VAIWFI-2G | VAI WFI Quality Water 2 Gallon Container Sterile | 2 |
| VAIWFI-200L | VAI WFI Quality Water 200 Liter VAI-Carboy Bag Sterile | 1 |

### AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

Technical Data File


# STERI-BUFFER® 90&99

## STERILE PHOSPHATE BUFFER
## PH 7.2 ± 0.2 MADE WITH USP WATER FOR INJECTION



STERI-BUFFER, 90 & 99 are a sterile phosphate buffered to a pH of 7.2 ± 0.2.



### STERI-BUFFER is:

- Filled in easy-open and close wide-mouth bottles
- Filtered at 0.2 microns
- Terminally sterilized through a validated cycle at a SAL level of $10^{-6}$ to assure sterility
- Lot sterility tested per current USP compendium
- Delivered with a Certificate of Analysis and Certificate of Sterility
- Sealed with a “no-tamper” strip that is broken once the bottle is opened
- Filled in a Class 100 clean room
- Validated for sterility and shelf life of 2 years
- Filled in bottles that are scaled on 4 sides for easy measurement

**USES: VAI WFI QUALITY WATER is:**

- For disinfectant preparation and dilution
- Not for parenteral administration

| Order# | Description | Quan/cs. |
|---|---|---|
| SB100-90 | Steri-Buffer 90 - 90 mL Sodium Phosphate Buffer | 72 |
| SB100-99 | Steri-Buffer 99 - 99 mL Sodium Phosphate Buffer | 72 |

### AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

Steri-Buffer Product Validation
Technical Data File

# STERI-OIL® 200

## STERILE CLEAN ROOM FORMULA

STERI-OIL is a sterile mineral oil lubricant for use in the aseptic manufacturing area.

### STERI-OIL is:

- Filtered at 0.2 Microns
- Double-bagged packaged
- Gamma irradiated
- A sterile USP grade mineral oil lubricant
- Heavy in consistency providing lubrication and preventing metal to metal contact
- Able to withstand high friction without displacement
- Able to reduce metal fatigue
- Completely tested according to current USP compendium
- Delivered with lot specific Certificate of Analysis, and Sterility Report
- Completely traceable
- Completely validated for sterility and shelf life

### USES: STERI-OIL:

- Reduces items from sticking
- Penetrates
- Lubricates mechanisms
- Used for moisture displacement

| Order# | Description | Quan/cs. |
|---|---|---|
| SO-200-A1Z | STERI-OIL 200 1 oz. Dropper Sterile | 250 |

### AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

Steri-Oil Product Validation
Technical Data File


# STERI-SILICON®

## STERILE CLEAN ROOM FORMULA

STERI-SILICON is a sterile lubricant and releasing spray.

### STERI-SILICON is:

- Filtered at 0.2 Microns
- Double-bagged packaged
- Gamma irradiated
- A USDA Approved (H2) sterile lubricant for use in the aseptic manufacturing area
- Colorless
- Inert
- Temperature stable from –40 degrees to 500 degrees Fahrenheit
- Completely tested according to current USP compendium
- Delivered with lot specific Certificate of Analysis and Sterility Report
- Completely traceable
- Completely validated for sterility and shelf life


**USES: STERI-SILICON is used to speed the process of heat sealing, packaging and process machinery.**

| Order# | Description | Quan/cs. |
|---|---|---|
| SSIL-02 | STERI-SILICON, 8 oz. Aerosol Spray Sterile | 24 |

### AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

Steri-Silicon Product Validation
Technical Data File

# STEEL-BRIGHT® AND DAS-WIPE® 100

## CLEAN ROOM FORMULA


STEEL-BRIGHT sterile stainless steel cleaner addresses the use of a sterile cleaner within the aseptic manufacturing area.

### STEEL-BRIGHT is:

- Filtered at 0.2 Microns
- Double-bagged packaged
- Gamma irradiated
- Used for removal of chemical residues, spotting and staining on stainless steel surfaces without leaving a powdery residue
- Emulsion based USDA Authorized (A7) cleaner that will not rainbow or accumulate to a heavy build up
- Completely tested according to current USP compendium
- Delivered with lot specific Certificate of Analysis and Sterility Report
- Completely traceable
- Completely validated for sterility and shelf life

**USES: STEEL-BRIGHT is used for the cleaning of:**

- Stainless steel
- Chrome
- Brass
- Aluminum
- Copper

DAS-WIPE 100 is a saturated 12 inch x 12 inch flat wipe.

### DAS-WIPE 100 is:

- Saturated with our stainless steel cleaner and lubricant with low remaining residues that can be removed with an IPA wipedown
- Filtered at 0.2 Microns
- Double-bagged packaged
- Gamma irradiated
- Completely tested according to current USP compendium
- Delivered with lot specific Certificate of Analysis and Sterility Report
- Completely traceable
- Completely validated for sterility and shelf life
- Designed to replace silicon on turntables, process lines and as a general lubricant
- Designed to assure bottles do not stick during movement towards a critical fill site
- Made of a polyester blend inherently low in particulate and shedding features

**USES: DAS-WIPE 100 is used for the cleaning of Stainless Steel**

| Order# | Description | Quan/cs. |
|---|---|---|
| SB-02 | STEEL-BRIGHT 8oz. Aerosol Spray Sterile | 24 |
| SBW-12x12-S | STEEL-BRIGHT Wipes Sterile 12"x12" | 100 |
| DW100-12x12-S | DAS-Wipe 100 Wipes Sterile 12"x12" | 100 |

### AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

Steel Bright Product Validation
Technical Data File


# DEC-GLASS®

DEC-GLASS is designed for pharmaceutical and biotechnology operations that demand a sterile glass and plexiglass cleaner capable of the removal of residues from disinfecting agents.

## DEC-GLASS is:

- Filtered at 0.2 Microns
- Double-bagged packaged
- Gamma irradiated
- Ready-to-use residue remover for glass and plexiglass
- Formulated with Purified Water
- Designed for all washable environmental surfaces
- Removes noticeable and unnoticeable residues, smudges, oils and dirt buildup
- Available in 16 ounce trigger spray containers
- Completely tested according to current USP compendium
- Delivered with lot specific Certificate of Analysis and Sterility Report
- Completely traceable
- Completely validated for sterility and shelf life

**USES: DEC-GLASS is used for the cleaning of:**

- Glass
- Plexiglass
- Surfaces

| Order# | Description | Quan/cs. |
|---|---|---|
| DG-03-16Z-E | DEC-Glass, Sterile 16 oz. | 12 |

## AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

DEC-Glass Product Validation
Technical Data File

# DEC-SOAP®

DEC-SOAP, is a gentle formulation that cleans and moisturizes hands.

## DEC-SOAP:

- Is a antibacterial formula designed to protect against cross-contamination
- Contains Triclosan that kills bacteria on contact
- Effectively removes dirt from hands

**USES: DEC-SOAP is an effective killing agent for:**

- Staphylococcus Aureus
- Methicillin Resistant Staphylococcus Aureus (MRSA)
- Staphylococcus Epidermidis
- Streptococcus Pyogenes

| Order# | Description | Quan/cs. |
|---|---|---|
| DSOAP-01-E | DEC-SOAP, 32 oz. bag<br>for use with Asepti-Cleanse® unit | 8 |

## AVAILABLE TECHNICAL DATA SUPPLEMENTS *(UPON REQUEST)*

Technical Data File




| PRODUCT | DESCRIPTION |
|---|---|
| Process2Clean1 | Alkaline Detergent |
| Process2Clean2 | Acidic Based Detergent |
| Process2Clean3 | Hydroxyacetic Acid Detergent |
| Process2Clean4 | General Purpose Cleaning Detergent |
| Process2Clean5 | Neutral PH Cleaning Additive |
| Process2Clean6 | Chlorinated Alkaline Cleaning Detergent |


# WELCOME TO PROCESS2CLEAN



Process2Clean products have been specifically designed for **critical clean in place applications**. In this venue, the appropriate use of clean in place cleaners warrants two concerns. The first concern relates to the ability of the specific detergent to remove existent product residues that may exist in either open or closed processes manufacturing equipment and vessels. The second concern is the ability to rinse free the product residue, any contamination that has entered and the clean in place detergent itself to assure that such surfaces are clean prior to the formulation and manufacturing of a new lot of product. In short, if one introduces contamination, may it be viable, non-viable or residual, then one must assure its removal. To address the lowering of contamination, **Process2Clean** products are available in both a sterile (filtered at 0.2 microns and aseptically filtered) and non-sterile packaging configurations. The sterile versions are ultra clean and assure that less contamination is introduced to the system. Thus, sterilize in place (SIP) systems have less work to do.

Process2Clean products have been engineered to effectively remove a multitude of product residues. All products are formulated under the highest quality standards in Veltek Associates, Inc.'s GMP manufacturing facility.

PROCESS 2 CLEAN

FOR CRITICAL CLEAN IN PLACE APPLICATIONS

one

# ALKALINE DETERGENT




610-644-8335

# ALKALINE DETERGENT
Available in Sterile and Non-Sterile Formulations

DESIGNED SPECIFICALLY FOR CRITICAL CLEAN IN PLACE APPLICATIONS

**For use on:**

Processing Equipment
Process Tanks and Vessels
Bioreactors
Blending Equipment
Tablet Presses
Laboratory and Production Glassware Washing
Production and Testing Component Parts
Ultrasonic Cleaning

**For use in the following facilities:**

Pharmaceutical
Biotechnology
Research and Development
Cosmetics
Medical Device
Food & Beverage

## What is Important?

The appropriate use of clean in place cleaners warrants two concerns. The first concern relates to the ability of the specific detergent to remove existent product residues that may exist in either open or closed processes manufacturing equipment and vessels. The second concern is the ability to rinse free the product residue, any contamination that has entered and the clean in place detergent itself to assure that such surfaces are clean prior to the formulation and manufacturing of a new lot of product. In short, if one introduces contamination, may it be viable, non-viable or residual, then one must assure its removal. Thus **Process2Clean 1** is available in both a sterile (filtered at 0.2 microns and aseptically filtered) and non-sterile packaging configurations. The sterile versions are ultra clean and assure that less contamination is introduced to the system. Thus, sterilize in place (SIP) systems have less work to do.

**Process2Clean 1** is a high performance concentrated liquid alkaline cleaning agent designed specifically for clean in place requirements in the pharmaceutical, biotechnology, cosmetic, medical device, food and beverage industries. **Process2Clean 1** is formulated with potassium hydroxide, surfactants, chelating agents, and other critically essential cleaning ingredients. The wide array of components provides a stabilized formula that is capable of cleaning a multitude of product and non-product contact surfaces. The formulation is Veltek's most effective broad spectrum cleaning agent that is capable of removing a wide array of residues. This product is extremely effective in removing residues that include a wide array of proteins, excipients, fine chemicals, silicones, oils, petrolatum, polymers and most all types of organics.

PROCESS2CLEAN
FOR CRITICAL CLEAN IN PLACE APPLICATIONS

**Process2Clean 1** is a low foaming cleaning agent (at all temperatures) and has enhanced cleaning and the ability to rinse free from systems. The phosphate free agent can be used in both CIP and COP applications. An extensive validation support package is available and is complimented with Veltek Associates, Inc.'s CORE (Critical Ongoing Residue Evaluation) Laboratory that can assist with specialized testing to meet your specific needs.

| Feature | Benefit |
|---|---|
| A low foaming, phosphate free formulated alkaline cleaner | This product cleans with a multitude of chemistries safer than general solvents or commodity chemicals. It is extremely effective in removing residues that include a wide array of proteins, excipients, fine chemicals, silicones, oils, petrolatum, polymers and most all types of organics. |
| Sterile and Non-Sterile Versions | At times, firms are concerned with not only the ability of the CIP product to clean and rinse free but also what has been introduced to the system by the CIP product. The sterile versions are filtered at 0.2 microns in a GMP Class 100 manufacturing area into presterilized containers. Each lot is tested for sterility via current USP compendium. The sterile version eliminates the concern for unwanted particulates, microorganisms and pyrogens that may be introduced through the CIP chemical. |
| Specific and non-specific methods to detect cleaning agent residues. The methods include HPLC, TOC, IC, IR, Freon and others | These methods can assist in the validation process of end users by eliminating the need for customers to develop their own analytical methods. The "CORE" System also develops specific methods unique to the customer's needs. |
| Complete Rinsing of Cleaning Agent Ingredients | The formula is designed to easily rinse free from product surfaces. Water rinse time period and volume is minimal. |
| All products are manufactured and tested from beginning to end in a FDA and EPA registered manufacturing facility. | Meets the highest standard in manufacturing and processing. |
| Lot Specific Documentation Package | All product is lot traceable and delivered each time with the lot specific certification. All lots are traced through the master batch records. |
| High Level of Quality | All products are made in controlled environments that include Class 100, Class 10,000 and Class 100,000. This assures the highest level of quality and cleanliness of the final product. |
| Phosphate Free Detergent | Environment Safe |
| Use concentrations range from 1% to 8%. | Dependent upon the requirements of the soil load to be cleaned varying concentrations are used to efficiently clean the existent residues in the shortest time period. |

## PHYSICAL PROPERTIES

| | |
|---|---|
| Appearance | Colorless Clear Liquid |
| Odor | Slight Chemical |
| Specific Gravity | 1.25 |
| pH - 1% solution (normal) | 12.5 |
| Solubility | Complete |
| Foaming | Minimal due to product enhancements |
| Rinsing | Excellent |

## **EUROPEAN** ORDERING INFORMATION

| Order Number | Description | Container Size | Qty. per case |
|---|---|---|---|
| PC-1-55G-01-E | Process2Clean 1 Non-Sterile | 208.197 Liters | 1 |
| PC-1-55G-02-E | Process2Clean 1 Sterile | 208.197 Liters | 1 |
| PC-1-5G-01-E | Process2Clean 1 Non-Sterile | 18.927 Liters | 1 |
| PC-1-5G-02-E | Process2Clean 1 Sterile | 18.927 Liters | 1 |
| PC-1-1G-01-E | Process2Clean 1 Non-Sterile | 3.785412 Liters | 4 |
| PC-1-1G-02-E | Process2Clean 1 Sterile | 3.785412 Liters | 4 |

**ADDITIONAL DOCUMENTATION PACKAGES (Available Upon Request)**

- Sample Lot Specific Certification
- Technical Product PDF File
- Material Safety Data Sheet
- Product Cleaning Validation Report
- Product Sterility Validation Report
- CORE Product Analysis

PROCESS 2 CLEAN

FOR CRITICAL CLEAN IN PLACE APPLICATIONS

two

# ACIDIC BASED DETERGENT




610-644-8335

PROCESS2CLEAN
FOR CRITICAL CLEAN IN PLACE APPLICATIONS

# ACIDIC BASED DETERGENT

Available in Sterile and Non-Sterile Formulations

DESIGNED SPECIFICALLY FOR CRITICAL CLEAN IN PLACE APPLICATIONS

**For use on:**

Processing Equipment
Process Tanks and Vessels
Bioreactors
Derouging and Passivation Processes
Blending Equipment
Tablet Presses
Laboratory and Production Glassware Washing
Production and Testing Component Parts
Ultrasonic Cleaning
Animal Cages
Antacid Cleaning Applications

**For use in the following facilities:**

Pharmaceutical
Biotechnology
Research and Development
Cosmetics
Medical Device
Food & Beverage
Animal

## What is Important?

The appropriate use of clean in place cleaners warrants two concerns. The first concern relates to the ability of the specific detergent to remove existent product residues that may exist in either open or closed processes manufacturing equipment and vessels. The second concern is the ability to rinse free the product residue, any contamination that has entered and the clean in place detergent itself to assure that such surfaces are clean prior to the formulation and manufacturing of a new lot of product. In short, if one introduces contamination, may it be viable, non-viable or residual, then one must assure its removal. Thus **Process2Clean 2** is available in both a sterile (filtered at 0.2 microns and aseptically filtered) and non-sterile packaging configurations. The sterile versions are ultra clean and assure that less contamination is introduced to the system. Thus, sterilize in place (SIP) systems have less work to do.

**Process2Clean 2** is a high performance concentrated liquid acid cleaning agent designed specifically for clean in place requirements in the pharmaceutical, biotechnology, cosmetic, medical device, food and beverage industries. **Process2Clean 2** is formulated with phosphoric acid, surfactants, chelating agents, and other critically essential cleaning ingredients. The wide array of components provides a stabilized formula that is capable of cleaning a multitude of product and non-product contact surfaces. The formulation is Veltek's most effective acid cleaning agent that is capable of removing a wide array of residues. This product is extremely effective in removing residues that include a wide array of inorganic salts, scales, particulate carbon, urine scales, proteins, excipients, fine chemicals, silicones, oils, petrolatum, polymers and most all types of organics. This product is especially effective on antacid formulations and animal urine (in polycarbonate, stainless and other caging materials). Routine use of this product reduces corrosion, pitting and rusting.

**Process2Clean 2** is a low foaming cleaning agent (at all temperatures) and has enhanced cleaning and the ability to rinse free from systems. The phosphate free agent can be used in both CIP and COP applications. An extensive validation support package is available and is complimented with Veltek Associates, Inc.'s CORE (Critical Ongoing Residue Evaluation) Laboratory that can assist with specialized testing to meet your specific needs.

| Feature | Benefit |
|---|---|
| A low foaming, phosphate free formulated acid cleaner | This product cleans with a multitude of chemistries safer than general solvents or commodity chemicals. It is extremely effective in removing residues that include a wide array of proteins, excipients, fine chemicals, silicones, oils, petrolatum, polymers and most all types of organics. |
| Sterile and Non-Sterile Versions | At times, firms are concerned with not only the ability of the CIP product to clean and rinse free but also what has been introduced to the system by the CIP product. The sterile versions are filtered at 0.2 microns in a GMP Class 100 manufacturing area into presterilized containers. Each lot is tested for sterility via current USP compendium. The sterile version eliminates the concern for unwanted particulates, microorganisms and pyrogens that may be introduced through the CIP chemical. |
| Specific and non-specific methods to detect cleaning agent residues. The methods include HPLC, TOC, IC, IR, Freon and others | These methods can assist in the validation process of end users by eliminating the need for customers to develop their own analytical methods. The "CORE" System also develops specific methods unique to the customer's needs. |
| Complete Rinsing of Cleaning Agent Ingredients | The formula is designed to easily rinse free from product surfaces. Water rinse time period and volume is minimal. |
| All products are manufactured and tested from beginning to end in a FDA, and EPA registered manufacturing facility. | Meets the highest standard in manufacturing and processing. |
| Lot Specific Documentation Package | All product is lot traceable and delivered each time with the lot specific certification. All lots are traced through the master batch records. |
| High Level of Quality | All products are made in controlled environments that include Class 100, Class 10,000 and Class 100,000. This assures the highest level of quality and cleanliness of the final product. |
| Phosphate Free Detergent | Environment Safe |
| Use concentrations range from 1% to 5%. | Dependent upon the requirements of the soil load to be cleaned varying concentrations are used to efficiently clean the existent residues in the shortest time period. |

## PHYSICAL PROPERTIES

| | |
|---|---|
| Appearance | Colorless Clear Liquid |
| Odor | Slight Chemical |
| Specific Gravity | 1.25 |
| pH - 1% solution (normal) | 2.0 |
| Solubility | Complete |
| Foaming | Minimal due to product enhancements |
| Rinsing | Excellent |

## **EUROPEAN** ORDERING INFORMATION

| Order Number | Description | Container Size | Qty. per case |
|---|---|---|---|
| PC-2-55G-01-E | Process2Clean 2 Non-Sterile | 208.197 Liters | 1 |
| PC-2-55G-02-E | Process2Clean 2 Sterile | 208.197 Liters | 1 |
| PC-22-5G-01-E | Process2Clean 2 Non-Sterile | 18.927 Liters | 1 |
| PC-2-5G-02-E | Process2Clean 2 Sterile | 18.927 Liters | 1 |
| PC-2-1G-01-E | Process2Clean 2 Non-Sterile | 3.785412 Liters | 4 |
| PC-2-1G-02-E | Process2Clean 2 Sterile | 3.785412 Liters | 4 |

**ADDITIONAL DOCUMENTATION PACKAGES (Available Upon Request)**

- Sample Lot Specific Certification
- Technical Product PDF File
- Material Safety Data Sheet
- Product Cleaning Validation Report
- Product Sterility Validation Report
- CORE Product Analysis

PROCESS 2 CLEAN

FOR CRITICAL CLEAN IN PLACE APPLICATIONS

three

# HYDROXYACETIC ACID DETERGENT




610-644-8335

# HYDROXYACETIC ACID DETERGENT
Available in Sterile and Non-Sterile Formulations

DESIGNED SPECIFICALLY FOR CRITICAL CLEAN IN PLACE APPLICATIONS

**For use on:**

Processing Equipment
Process Tanks and Vessels
Bioreactors
Derouging and Passivation Processes
High Pressure Spray Applications
Blending Equipment
Tablet Presses
Laboratory and Production Glassware Washing
Production and Testing Component Parts
Ultrasonic Cleaning
Animal Cages
Stainless Steel

**For use in the following facilities:**

Pharmaceutical
Biotechnology
Research and Development
Cosmetics
Medical Device
Food & Beverage
Animal

## What is Important?

The appropriate use of clean in place cleaners warrants two concerns. The first concern relates to the ability of the specific detergent to remove existent product residues that may exist in either open or closed processes manufacturing equipment and vessels. The second concern is the ability to rinse free the product residue, any contamination that has entered and the clean in place detergent itself to assure that such surfaces are clean prior to the formulation and manufacturing of a new lot of product. In short, if one introduces contamination, may it be viable, non-viable or residual, then one must assure its removal. Thus **Process2Clean 3** is available in both a sterile (filtered at 0.2 microns and aseptically filtered) and non-sterile packaging configurations. The sterile versions are ultra clean and assure that less contamination is introduced to the system. Thus, sterilize in place (SIP) systems have less work to do.

**Process2Clean 3** is a high performance concentrated hydroxyacetic acid cleaner/descaler liquid cleaning agent designed specifically for clean in place requirements in the pharmaceutical, biotechnology, cosmetic, medical device, food and beverage industries. Process2Clean 3 is formulated with phosphoric acid, surfactants, chelating agents, and other critically essential cleaning ingredients. The wide array of components provides a stabilized formula that is capable of cleaning a multitude of product and non-product contact surfaces. The formulation is one of Veltek's most effective acid cleaning agents that is capable of removing a wide array of residues. This product was designed specifically for use in high pressure cleaning applications. The product is extremely effective in removing residues that include a wide array of inorganic salts, scales, particulate carbon, urine scales, proteins, excipients, fine chemicals, silicones, oils, petrolatum, polymers and most all types of organics. This product is especially effective on antacid formulations and animal urine (in polycarbonate, stainless and other caging materials). Routine use of this product is helpful in removal of free metals and reduces corrosion, pitting and rusting.

PROCESS2CLEAN
FOR CRITICAL CLEAN IN PLACE APPLICATIONS

**Process2Clean 3** is a low foaming cleaning agent (at all temperatures) and has enhanced cleaning and the ability to rinse free from systems. The phosphate free agent can be used in both CIP and COP applications. An extensive validation support package is available and is complimented with Veltek Associates, Inc.'s CORE (Critical Ongoing Residue Evaluation) Laboratory that can assist with specialized testing to meet your specific needs.

| Feature | Benefit |
|---|---|
| A low foaming, phosphate free formulated acid cleaner | This product cleans with a multitude of chemistries safer than general solvents or commodity chemicals. It is extremely effective in removing residues that include a wide array of proteins, excipients, fine chemicals, silicones, oils, petrolatum, polymers and most all types of organics. |
| Sterile and Non-Sterile Versions | At times, firms are concerned with not only the ability of the CIP product to clean and rinse free but also what has been introduced to the system by the CIP product. The sterile versions are filtered at 0.2 microns in a GMP Class 100 manufacturing area into presterilized containers. Each lot is tested for sterility via current USP compendium. The sterile version eliminates the concern for unwanted particulates, microorganisms and pyrogens that may be introduced through the CIP chemical. |
| Specific and non-specific methods to detect cleaning agent residues. The methods include HPLC, TOC, IC, IR, Freon and others | These methods can assist in the validation process of end users by eliminating the need for customers to develop their own analytical methods. The "CORE" System also develops specific methods unique to the customer's needs. |
| Complete Rinsing of Cleaning Agent Ingredients | The formula is designed to easily rinse free from product surfaces. Water rinse time period and volume is minimal. |
| All products are manufactured and tested from beginning to end in a FDA, and EPA registered manufacturing facility. | Meets the highest standard in manufacturing and processing. |
| Lot Specific Documentation Package | All product is lot traceable and delivered each time with the lot specific certification. All lots are traced through the master batch records. |
| High Level of Quality | All products are made in controlled environments that include Class 100, Class 10,000 and Class 100,000. This assures the highest level of quality and cleanliness of the final product. |
| Phosphate Free Detergent | Environment Safe |
| Use concentrations range from 2% to 5%. | Dependent upon the requirements of the soil load to be cleaned varying concentrations are used to efficiently clean the existent residues in the shortest time period. |

## PHYSICAL PROPERTIES

| | |
|---|---|
| Appearance | Colorless Clear Liquid |
| Odor | Slight Chemical |
| Specific Gravity | 1.12 |
| pH - 1% solution (normal) | 2.8 |
| Solubility | Complete |
| Foaming | Minimal due to product enhancements |
| Rinsing | Excellent |

## **EUROPEAN** ORDERING INFORMATION

| Order Number | Description | Container Size | Qty. per case |
|---|---|---|---|
| PC-3-55G-01-E | Process2Clean 3 Non-Sterile | 208.197 Liters | 1 |
| PC-3-55G-02-E | Process2Clean 3 Sterile | 208.197 Liters | 1 |
| PC-3-5G-01-E | Process2Clean 3 Non-Sterile | 18.927 Liters | 1 |
| PC-3-5G-02-E | Process2Clean 3 Sterile | 18.927 Liters | 1 |
| PC-3-1G-01-E | Process2Clean 3 Non-Sterile | 3.785412 Liters | 4 |
| PC-3-1G-02-E | Process2Clean 3 Sterile | 3.785412 Liters | 4 |

**ADDITIONAL DOCUMENTATION PACKAGES (Available Upon Request)**

- Sample Lot Specific Certification
- Technical Product PDF File
- Material Safety Data Sheet
- Product Cleaning Validation Report
- Product Sterility Validation Report
- CORE Product Analysis

PROCESS 2 CLEAN

FOR CRITICAL CLEAN IN PLACE APPLICATIONS

four

# GENERAL PURPOSE CLEANING DETERGENT




610-644-8335

PROCESS2CLEAN
FOR CRITICAL CLEAN IN PLACE APPLICATIONS

# GENERAL PURPOSE CLEANING DETERGENT
Available in Sterile and Non-Sterile Formulations

DESIGNED SPECIFICALLY FOR CRITICAL CLEAN IN PLACE APPLICATIONS

**For use on:**

Processing Equipment
Process Tanks and Vessels
Bioreactors
Blending Equipment
Tablet Presses
Production and Testing Component Parts
Laboratory Glassware
Ultrasonic Cleaning
Animal Cages
Stainless Steel

**For use in the following facilities:**

Pharmaceutical
Biotechnology
Research and Development
Cosmetics
Medical Device
Food & Beverage

## What is Important?

The appropriate use of clean in place cleaners warrants two concerns. The first concern relates to the ability of the specific detergent to remove existent product residues that may exist in either open or closed processes manufacturing equipment and vessels. The second concern is the ability to rinse free the product residue, any contamination that has entered and the clean in place detergent itself to assure that such surfaces are clean prior to the formulation and manufacturing of a new lot of product. In short, if one introduces contamination, may it be viable, non-viable or residual, then one must assure its removal. Thus **Process2Clean 4** is available in both a sterile (filtered at 0.2 microns and aseptically filtered) and non-sterile packaging configurations. The sterile versions are ultra clean and assure that less contamination is introduced to the system. Thus, sterilize in place (SIP) systems have less work to do.

**Process2Clean 4** is a high performance concentrated liquid cleaning agent designed specifically for clean in place requirements in the pharmaceutical, biotechnology, cosmetic, medical device, food and beverage industries. **Process2Clean 4** is designed for use in low-energy agitated immersion systems, pressure spray or foam applications, or manual washing application. It is extremely effective in cleaning ointments, creams, oils, waxes, greases, petrolatum-based products. **Process2Clean 4** can be used as a stand alone cleaner or as an additive to alkaline cleaners to enhance their cleaning capabilities. The wide array of components provides a stabilized formula that is capable of cleaning a multitude of product and non-product contact surfaces. The formulation is one of Veltek's most effective cleaning agents that is capable of specifically removing oils, waxes, creams and polymers.

PROCESS2CLEAN
FOR CRITICAL CLEAN IN PLACE APPLICATIONS

**Process2Clean 4** is an enhanced cleaning with the ability to rinse free from systems. The phosphate free agent can be used in both CIP and COP applications. An extensive validation support package is available and is complimented with Veltek Associates, Inc.'s CORE (Critical Ongoing Residue Evaluation) Laboratory that can assist with specialized testing to meet your specific needs.

| Feature | Benefit |
|---|---|
| Formulated cleaner designed specifically to address waxes, oils, creams and other polymers. | This product cleans with a multitude of chemistries safer than general solvents or commodity chemicals. It is extremely effective in removing residues that include a wide array of proteins, excipients, fine chemicals, silicones, oils, petrolatum, polymers and most all types of organics. |
| Sterile and Non-Sterile Versions | At times, firms are concerned with not only the ability of the CIP product to clean and rinse free but also what has been introduced to the system by the CIP product. The sterile versions are filtered at 0.2 microns in a GMP Class 100 manufacturing area into presterilized containers. Each lot is tested for sterility via current USP compendium. The sterile version eliminates the concern for unwanted particulates, microorganisms and pyrogens that may be introduced through the CIP chemical. |
| Specific and non-specific methods to detect cleaning agent residues. The methods include HPLC, TOC, IC, IR, Freon and others | These methods can assist in the validation process of end users by eliminating the need for customers to develop their own analytical methods. The "CORE" System also develops specific methods unique to the customer's needs. |
| Complete Rinsing of Cleaning Agent Ingredients | The formula is designed to easily rinse free from product surfaces. Water rinse time period and volume is minimal. |
| All products are manufactured and tested from beginning to end in a FDA and EPA registered manufacturing facility. | Meets the highest standard in manufacturing and processing. |
| Lot Specific Documentation Package | All product is lot traceable and delivered each time with the lot specific certification. All lots are traced through the master batch records. |
| High Level of Quality | All products are made in controlled environments that include Class 100, Class 10,000 and Class 100,000. This assures the highest level of quality and cleanliness of the final product. |
| Use concentrations range from 2% to 5%. | Dependent upon the requirements of the soil load to be cleaned varying concentrations are used to efficiently clean the existent residues in the shortest time period. The product is highly concentrated so less chemical agent needs to be used. |

## PHYSICAL PROPERTIES

| | |
|---|---|
| Appearance | Colorless Clear Liquid |
| Odor | Slight Chemical |
| Specific Gravity | 1.04 |
| pH - 1% solution (normal) | 9.0 |
| Solubility | Complete |
| Foaming | Moderate to high depending on application method |

## EUROPEAN ORDERING INFORMATION

| Order Number | Description | Container Size | Qty. per case |
|---|---|---|---|
| PC-4-55G-01-E | Process2Clean 4 Non-Sterile | 208.197 Liters | 1 |
| PC-4-55G-02-E | Process2Clean 4 Sterile | 208.197 Liters | 1 |
| PC-4-5G-01-E | Process2Clean 4 Non-Sterile | 18.927 Liters | 1 |
| PC-4-5G-02-E | Process2Clean 4 Sterile | 18.927 Liters | 1 |
| PC-4-1G-01-E | Process2Clean 4 Non-Sterile | 3.785412 Liters | 4 |
| PC-4-1G-02-E | Process2Clean 4 Sterile | 3.785412 Liters | 4 |

**ADDITIONAL DOCUMENTATION PACKAGES (Available Upon Request)**

- Sample Lot Specific Certification
- Technical Product PDF File
- Material Safety Data Sheet
- Product Cleaning Validation Report
- Product Sterility Validation Report
- CORE Product Analysis

PROCESS 2 CLEAN

FOR CRITICAL CLEAN IN PLACE APPLICATIONS

five

# NEUTRAL PH CLEANING ADDITIVE




610-644-8335

# NEUTRAL PH CLEANING ADDITIVE

Available in Sterile and Non-Sterile Formulations

DESIGNED SPECIFICALLY FOR CRITICAL CLEAN IN PLACE APPLICATIONS

**For use on:**

Processing Equipment
Process Tanks and Vessels
Bioreactors
Derouging and Passivation Processes
High Pressure Spray Applications
Blending Equipment
Tablet Presses
Laboratory and Production Glassware Washing
Production and Testing Component Parts
Ultrasonic Cleaning
Animal Cages
Stainless Steel

**For use in the following facilities:**

Pharmaceutical
Biotechnology
Research and Development
Cosmetics
Medical Device
Food & Beverage
Animal

## What is Important?

The appropriate use of clean in place cleaners warrants two concerns. The first concern relates to the ability of the specific detergent to remove existent product residues that may exist in either open or closed processes manufacturing equipment and vessels. The second concern is the ability to rinse free the product residue, any contamination that has entered and the clean in place detergent itself to assure that such surfaces are clean prior to the formulation and manufacturing of a new lot of product. In short, if one introduces contamination, may it be viable, non-viable or residual, then one must assure its removal. Thus **Process2Clean 5** is available in both a sterile (filtered at 0.2 microns and aseptically filtered) and non-sterile packaging configurations. The sterile versions are ultra clean and assure that less contamination is introduced to the system. Thus, sterilize in place (SIP) systems have less work to do.

**Process2Clean 5** is a phosphate free, neutral pH detergent that improves the cleaning performance of all Veltek Associates, Inc. cleaners. This high performance concentrated liquid cleaning agent is specifically designed as a additive that works in conjunction with cleaning agents to reduce foaming and remove soils. The product is used with both high end low energy clean in place products in the pharmaceutical, biotechnology, cosmetic, medical device, food and beverage industries. The wide array of components provides a stabilized formula that is capable of cleaning a multitude of product and non-product contact surfaces. Together with our other formulations, **Process2Clean 5** is one of Veltek's most effective cleaning agents that is capable of removing a wide array of residues. This product was designed specifically for use in recirculation and high pressure cleaning applications. The product is extremely effective in removing residues that include a wide array of oils, waxes, grease and petrolatum.

PROCESS2CLEAN
FOR CRITICAL CLEAN IN PLACE APPLICATIONS

**Process2Clean 5** is a low foaming cleaning agent (at all temperatures) and has enhanced cleaning and the ability to rinse free from systems. **Process2Clean 5** can be used in both CIP and COP applications. An extensive validation support package is available and is complimented with Veltek Associates, Inc.'s CORE (Critical Ongoing Residue Evaluation) Laboratory that can assist with specialized testing to meet your specific needs.

| Feature | Benefit |
|---|---|
| An enhanced additive that decreases foaming and increases the efficiency of the surfactant in the detergent. | Increases the effectiveness against a wider array of soils. This product cleans with a multitude of chemistries safer than general solvents or commodity chemicals. It is extremely effective in removing residues that include a wide array of oils, waxes, grease and petrolatum. |
| Sterile and Non-Sterile Versions | At times, firms are concerned with not only the ability of the CIP product to clean and rinse free but also what has been introduced to the system by the CIP product. The sterile versions are filtered at 0.2 microns in a GMP Class 100 manufacturing area into presterilized containers. Each lot is tested for sterility via current USP compendium. The sterile version eliminates the concern for unwanted particulates, microorganisms and pyrogens that may be introduced through the CIP chemical. |
| Specific and non-specific methods to detect cleaning agent residues. The methods include HPLC, TOC, IC, IR, Freon and others | These methods can assist in the validation process of end users by eliminating the need for customers to develop their own analytical methods. The "CORE" System also develops specific methods unique to the customer's needs. |
| Complete Rinsing of Cleaning Agent Ingredients | The formula is designed to easily rinse free from product surfaces. Water rinse time period and volume is minimal. Meets the highest standard in manufacturing and processing. |
| All products are manufactured and tested from beginning to end in a FDA and EPA registered manufacturing facility. | Meets the highest standard in manufacturing and processing. |
| Lot Specific Documentation Package | All product is lot traceable and delivered each time with the lot specific certification. All lots are traced through the master batch records. |
| High Level of Quality | All products are made in controlled environments that include Class 100, Class 10,000 and Class 100,000. This assures the highest level of quality and cleanliness of the final product. |
| Phosphate Free Detergent | Environment Safe |
| Use concentrations range from 2% to 5%. | Dependent upon the requirements of the soil load to be cleaned varying concentrations are used to efficiently clean the existent residues in the shortest time period. |

## PHYSICAL PROPERTIES

| | |
|---|---|
| Appearance | Colorless Clear Liquid |
| Odor | Slight Chemical |
| Specific Gravity | 1.01 |
| pH - 1% solution (normal) | 8.55 |
| Solubility | Complete |
| Foaming | Minimal due to product enhancements even at higher temperature applications |

## **EUROPEAN** ORDERING INFORMATION

| Order Number | Description | Container Size | Qty. per case |
|---|---|---|---|
| PC-5-55G-01-E | Process2Clean 5 Non-Sterile | 208.197 Liters | 1 |
| PC-5-55G-02-E | Process2Clean 5 Sterile | 208.197 Liters | 1 |
| PC-5-5G-01-E | Process2Clean 5 Non-Sterile | 18.927 Liters | 1 |
| PC-5-5G-02-E | Process2Clean 5 Sterile | 18.927 Liters | 1 |
| PC-5-1G-01-E | Process2Clean 5 Non-Sterile | 3.785412 Liters | 4 |
| PC-5-1G-02-E | Process2Clean 5 Sterile | 3.785412 Liters | 4 |

**ADDITIONAL DOCUMENTATION PACKAGES (Available Upon Request)**

- Sample Lot Specific Certification
- Technical Product PDF File
- Material Safety Data Sheet
- Product Cleaning Validation Report
- Product Sterility Validation Report
- CORE Product Analysis

PROCESS 2 CLEAN
FOR CRITICAL CLEAN IN PLACE APPLICATIONS

six

# CHLORINATED ALKALINE CLEANING DETERGENT




610-644-8335

PROCESS2CLEAN
FOR CRITICAL CLEAN IN PLACE APPLICATIONS

# CHLORINATED ALKALINE CLEANING DETERGENT

Available in Sterile and Non-Sterile Formulations

DESIGNED SPECIFICALLY FOR CRITICAL CLEAN IN PLACE APPLICATIONS

**For use on:**

Processing Equipment
Process Tanks and Vessels
Bioreactors
Blending Equipment
Tablet Presses
Production and Testing Component Parts
Laboratory Glassware
Ultrasonic Cleaning

**For use in the following facilities:**

Pharmaceutical
Biotechnology
Research and Development
Cosmetics
Medical Device
Food & Beverage

## What is Important?

The appropriate use of clean in place cleaners warrants two concerns. The first concern relates to the ability of the specific detergent to remove existent product residues that may exist in either open or closed processes manufacturing equipment and vessels. The second concern is the ability to rinse free the product residue, any contamination that has entered and the clean in place detergent itself to assure that such surfaces are clean prior to the formulation and manufacturing of a new lot of product. In short, if one introduces contamination, may it be viable, non-viable or residual, then one must assure its removal. Thus **Process2Clean 6** is available in both a sterile (filtered at 0.2 microns and aseptically filtered) and non-sterile packaging configurations. The sterile versions are ultra clean and assure that less contamination is introduced to the system. Thus, sterilize in place (SIP) systems have less work to do.

**Process2Clean 6** is a high performance concentrated liquid cleaning agent designed specifically for clean in place requirements in the pharmaceutical, biotechnology, cosmetic, medical device, food and beverage industries. **Process2Clean 6** is designed for use in low-energy agitated immersion systems, pressure spray applications, or manual washing application. It is extremely effective in cleaning ointments, creams, oils, waxes, greases and petrolatum-based products. **Process2Clean 6** can be used as a stand alone cleaner or as an additive to alkaline cleaners to enhance their cleaning capabilities. The wide array of components provides a stabilized formula that is capable of cleaning a multitude of product and non-product contact surfaces. The formulation is one of Veltek's most effective cleaning agents that is capable of specifically removing oils, waxes, creams and polymers.

PROCESS2CLEAN
FOR CRITICAL CLEAN IN PLACE APPLICATIONS

**Process2Clean 6** is an enhanced cleaning with the ability to rinse free from systems. The phosphate free agent can be used in both CIP and COP applications. An extensive validation support package is available and is complimented with Veltek Associates, Inc.'s CORE (Critical Ongoing Residue Evaluation) Laboratory that can assist with specialized testing to meet your specific needs.



| Feature | Benefit |
|---|---|
| Formulated chlorinated alkaline cleaner | Developed specifically for the removal of protein type soils. This product cleans with a multitude of chemistries safer than general solvents or commodity chemicals. |
| Sterile and Non-Sterile Versions | At times, firms are concerned with not only the ability of the CIP product to clean and rinse free but also what has been introduced to the system by the CIP product. The sterile versions are filtered at 0.2 microns in a GMP Class 100 manufacturing area into presterilized containers. Each lot is tested for sterility via current USP compendium. The sterile version eliminates the concern for unwanted particulates, microorganisms and pyrogens that may be introduced through the CIP chemical. |
| Specific and non-specific methods to detect cleaning agent residues. The methods include HPLC, TOC, IC, IR, Freon and others | These methods can assist in the validation process of end users by eliminating the need for customers to develop their own analytical methods. The "CORE" System also develops specific methods unique to the customer's needs. |
| Complete Rinsing of Cleaning Agent Ingredients | The formula is designed to easily rinse free from product surfaces. Water rinse time period and volume is minimal. |
| All products are manufactured and tested from beginning to end in a FDA and EPA registered manufacturing facility. | Meets the highest standard in manufacturing and processing. |
| Lot Specific Documentation Package | All product is lot traceable and delivered each time with the lot specific certification. All lots are traced through the master batch records. |
| High Level of Quality | All products are made in controlled environments that include Class 100, Class 10,000 and Class 100,000. This assures the highest level of quality and cleanliness of the final product. |
| Use concentrations range from 1% to 6%. | Dependent upon the requirements of the soil load to be cleaned varying concentrations are used to efficiently clean the existent residues in the shortest time period. The product is highly concentrated so less chemical agent needs to be used. |

## PHYSICAL PROPERTIES

| | |
|---|---|
| Appearance | Amber Clear Liquid |
| Odor | Chlorine |
| Specific Gravity | 1.15 |
| pH - 1% solution (normal) | 12.0 |
| Solubility | Complete |
| Chlorine Content | Minimal - 1.0-2.0 percent |
| Foaming | Minimal due to product enhancements and even less at higher temperature applications |
| Rinsing | Excellent |

## **EUROPEAN** ORDERING INFORMATION

| Order Number | Description | Container Size | Qty. per case |
|---|---|---|---|
| PC-6-55G-01-E | Process2Clean 6 Non-Sterile | 208.197 Liters | 1 |
| PC-6-55G-02-E | Process2Clean 6 Sterile | 208.197 Liters | 1 |
| PC-6-5G-01-E | Process2Clean 6 Non-Sterile | 18.927 Liters | 1 |
| PC-6-5G-02-E | Process2Clean 6 Sterile | 18.927 Liters | 1 |
| PC-6-1G-01-E | Process2Clean 6 Non-Sterile | 3.785412 Liters | 4 |
| PC-6-1G-02-E | Process2Clean 6 Sterile | 3.785412 Liters | 4 |

**ADDITIONAL DOCUMENTATION PACKAGES (Available Upon Request)**

- Sample Lot Specific Certification
- Technical Product PDF File
- Material Safety Data Sheet
- Product Cleaning Validation Report
- Product Sterility Validation Report
- CORE Product Analysis




| PRODUCT | DESCRIPTION |
|---|---|
| Cage2Wash1 | Alkaline Detergent |
| Cage2Wash2 | Enhanced Alkaline Detergent |
| Cage2Wash3 | Acid Based Detergent |
| Cage2Wash4 | Hydroxyacetic Acid Detergent |
| Cage2Wash5 | Citric Acid Cleaner/Descaler Detergent |

# WELCOME TO CAGE2WASH

Cage2Wash products have been specifically designed for **critical animal facility, component and animal cage washing applications**. In this venue, the appropriate use of a cleaning agent to remove animal waste and animal by products is critical. The use of a cleaning agent in this venue warrants an end user to concern themselves with the ability of the specific detergent to remove the existent residues. These residues may be in the form of urine, scales, animal fats, oils, organics and other related animal by-products or formulated drug product residues. Such residues need to be effectively removed through a variety of application methodologies that include rinsing, high pressure spray, circulation and immersion. The removal of past product residues and/or animal by-products protects the integrity of new product lots and animals that may be placed into the cages. Cage2Wash products also have the ability to rinse free from the surfaces thus eliminating the possibility of the residual from the cleaner itself corrupting the system. These concerns are critical considerations for lab animal research and lab animal housing facilities.

Cage2Wash products have been engineered to effectively remove a multitude of product residues. All products are formulated under the highest quality standards in a GMP manufacturing facility.

CAGE2WASH

one

# ALKALINE DETERGENT




610-644-8335

CAGE2WASH

## ALKALINE DETERGENT

Specifically Designed for Animal Research and Manufacturing Facilities

DESIGNED SPECIFICALLY FOR CRITICAL CLEAN IN PLACE APPLICATIONS

**For use on:**

Stainless Steel
Processing Equipment
Laboratory Glassware
Plastics
Polycarbonates
Equipment
Aluminum
Animal Cages
Medical Devices Applications

**For use in the following facilities:**

Pharmaceutical
Biotechnology
Animal
Research and Development
Cosmetics
Medical Device
Food & Beverage

### What is Important?

The appropriate use of clean in place cleaners warrants two concerns. The first concern relates to the ability of the specific detergent to remove existent product residues that may exist in either open or closed processes manufacturing equipment, animal cages and vessels. The second concern is the ability to rinse free the product residue, any contamination that has entered and the clean in place detergent itself to assure that such surfaces are clean prior to the formulation and manufacturing of a new lot of product or the replacement of an animal.

**Cage2Wash 1** is a high performance concentrated liquid alkaline cleaning agent designed specifically for clean in place requirements in the pharmaceutical, biotechnology, cosmetic, medical device, food and beverage industries. **Cage2Wash 1** is formulated with potassium hydroxide, surfactants, chelating agents, and other critically essential cleaning ingredients. The wide array of components provides a stabilized formula that is capable of cleaning a multitude of product and non-product contact surfaces. The formulation is Veltek's most effective broad spectrum cleaning agent that is capable of removing a wide array of residues. This product is extremely effective in removing residues that include a wide array of proteins, excipients, fine chemicals, silicones, oils, petrolatum, polymers, serums, proteins, urine, scales, animal fats, oils and most all types of organics. **Cage2Wash 1** is safe for use on stainless steel, aluminum, copper, galvanized steel, soft metals, glass, polypropylene, polycarbonates and a wide variety of plastics.

# CAGE2WASH

**Cage2Wash 1** is a low foaming cleaning agent (at all temperatures) and has enhanced cleaning ability to rinse free from systems. The phosphate free agent can be used in both CIP and COP applications. An extensive validation support package is available and is complimented with Veltek Associates, Inc.'s CORE (Critical Ongoing Residue Evaluation) Laboratory that can assist with specialized testing to meet your specific needs.

| Feature | Benefit |
|---|---|
| A low foaming, phosphate free formulated alkaline cleaner | This product cleans with a multitude of chemistries safer than general solvents or commodity chemicals. It is extremely effective in removing residues that include a wide array of proteins, excipients, fine chemicals, silicones, oils, petrolatum, polymers, serums, proteins, urine, scales, animal fats, oils and most all types of organics. |
| Specific and non-specific methods to detect cleaning agent residues. The methods include HPLC, TOC, IC, IR, Freon and others | These methods can assist in the validation process of end users by eliminating the need for customers to develop their own analytical methods. The "CORE" System also develops specific methods unique to the customer's needs. |
| Complete Rinsing of Cleaning Agent Ingredients | The formula is designed to easily rinse free from product surfaces. Water rinse time period and volume is minimal. |
| All products are manufactured and tested from beginning to end in a FDA and EPA registered manufacturing facility. | Meets the highest standard in manufacturing and processing. |
| Lot Specific Documentation Package | All product is lot traceable and delivered each time with the lot specific certification. All lots are traced through the master batch records. |
| High Level of Quality | All products are made in controlled environments that include Class 100, Class 10,000 and Class 100,000. This assures the highest level of quality and cleanliness of the final product. |
| Phosphate Free Detergent | Environment Safe |
| Use concentrations range from .2% to 5%. | Dependent upon the requirements of the soil load to be cleaned varying concentrations are used to efficiently clean the existent residues in the shortest time period. |

| PHYSICAL PROPERTIES | |
|---|---|
| Appearance | Colorless Clear Liquid |
| Odor | Slight Chemical |
| Specific Gravity | 1.25 |
| pH - 1% solution (normal) | 12.5 |
| Solubility | Complete |
| Chlorine Content | Minimal - 1.0-2.0 percent |
| Foaming | Minimal due to product enhancements |
| Rinsing | Excellent |

**EUROPEAN** ORDERING INFORMATION

| Order Number | Description | Container Size | Qty. per case |
|---|---|---|---|
| C-1-55G-01-E | Cage2Wash 1 Non-Sterile | 208.197 Liters | 1 |
| C-1-5G-01-E | Cage2Wash 1 Non-Sterile | 18.927 Liters | 1 |
| C-1-1G-01-E | Cage2Wash 1 Non-Sterile | 3.785412 Liters | 4 |

**ADDITIONAL DOCUMENTATION PACKAGES (Available Upon Request)**

- Sample Lot Specific Certification
- Technical Product PDF File
- Material Safety Data Sheet
- Product Cleaning Validation Report
- CORE Product Analysis

CAGE2WASH

two

# ENHANCED ALKALINE DETERGENT




610-644-8335

CAGE2WASH

## ENHANCED ALKALINE DETERGENT

Specifically Designed for Animal Research and Manufacturing Facilities

DESIGNED SPECIFICALLY FOR CRITICAL CLEAN IN PLACE APPLICATIONS

**For use on:**

Stainless Steel
Processing Equipment
Laboratory Glassware
Plastics
Polycarbonates
Equipment
Aluminum
Low Grade Metals
Animal Cages
Medical Devices Applications

**For use in the following facilities:**

Pharmaceutical
Biotechnology
Animal
Research and Development
Cosmetics
Medical Device
Food & Beverage

### What is Important?

The appropriate use of clean in place cleaners warrants two concerns. The first concern relates to the ability of the specific detergent to remove existent product residues that may exist in either open or closed processes manufacturing equipment, animal cages and vessels. The second concern is the ability to rinse free the product residue, any contamination that has entered and the clean in place detergent itself to assure that such surfaces are clean prior to the formulation and manufacturing of a new lot of product or the replacement of an animal.

**Cage2Wash 2** is an enhanced high performance concentrated liquid alkaline cleaning agent designed specifically for clean in place requirements in the pharmaceutical, biotechnology, animal, cosmetic, medical device, food and beverage industries. **Cage2Wash 2** is formulated with high surfactant levels, chelating agents, and other critically essential cleaning ingredients. The wide array of components provides a stabilized formula that is capable of cleaning a multitude of product and non-product contact surfaces. The formulation is effective in removing a wide array of residues. This product is extremely effective in removing residues that include a wide array of proteins, excipients, fine chemicals, silicones, oils, petrolatum, polymers, serums, proteins, urine, scales, animal fats, oils and most all types of organics. **Cage2Wash 2** is safe for use on stainless steel, aluminum, copper, galvanized steel, soft metals, glass, polypropylene, polycarbonates and a wide variety of plastics.

# CAGE2WASH

**Cage2Wash 2** is a low foaming cleaning agent (at all temperatures) and has enhanced cleaning ability to rinse free from systems. The phosphate free agent can be used in both CIP and COP applications. An extensive validation support package is available and is complimented with Veltek Associates, Inc.'s CORE (Critical Ongoing Residue Evaluation) Laboratory that can assist with specialized testing to meet your specific needs.

| Feature | Benefit |
|---|---|
| A low foaming, enhanced, phosphate free formulated alkaline cleaner | This product cleans with a multitude of chemistries safer than general solvents or commodity chemicals. It is extremely effective in removing residues that include a wide array of proteins, excipients, fine chemicals, silicones, oils, petrolatum, polymers, serums, proteins, urine, scales, animal fats, oils and most all types of organics. |
| Specific and non-specific methods to detect cleaning agent residues. The methods include HPLC, TOC, IC, IR, Freon and others | These methods can assist in the validation process of end users by eliminating the need for customers to develop their own analytical methods. The "CORE" System also develops specific methods unique to the customer's needs. |
| Complete Rinsing of Cleaning Agent Ingredients | The formula is designed to easily rinse free from product surfaces. Water rinse time period and volume is minimal. |
| All products are manufactured and tested from beginning to end in a FDA and EPA registered manufacturing facility. | Meets the highest standard in manufacturing and processing. |
| Lot Specific Documentation Package | All product is lot traceable and delivered each time with the lot specific certification. All lots are traced through the master batch records. |
| High Level of Quality | All products are made in controlled environments that include Class 100, Class 10,000 and Class 100,000. This assures the highest level of quality and cleanliness of the final product. |
| Phosphate Free Detergent | Environment Safe |
| Use concentrations range from .2% to 5%. | Dependent upon the requirements of the soil load to be cleaned varying concentrations are used to efficiently clean the existent residues in the shortest time period. |

## PHYSICAL PROPERTIES

| | |
|---|---|
| Appearance | Amber Clear Liquid |
| Odor | Slight Chemical |
| Specific Gravity | 1.28 |
| pH - 1% solution (normal) | 13.0 |
| Solubility | Complete |
| Foaming | Minimal due to product enhancements |
| Rinsing | Excellent |

## **EUROPEAN** ORDERING INFORMATION

| Order Number | Description | Container Size | Qty. per case |
|---|---|---|---|
| C-2-55G-01-E | Cage2Wash 2 Non-Sterile | 208.197 Liters | 1 |
| C-2-5G-01-E | Cage2Wash 2 Non-Sterile | 18.927 Liters | 1 |
| C-2-1G-01-E | Cage2Wash 2 Non-Sterile | 3.785412 Liters | 4 |

**ADDITIONAL DOCUMENTATION PACKAGES (Available Upon Request)**

- Sample Lot Specific Certification
- Technical Product PDF File
- Material Safety Data Sheet
- Product Cleaning Validation Report
- CORE Product Analysis

CAGE 2 WASH

three

# ACIDIC BASED DETERGENT




610-644-8335

CAGE2WASH

## ACID BASED DETERGENT

Specifically Designed for Animal Research and Manufacturing Facilities

DESIGNED SPECIFICALLY FOR CRITICAL CLEAN IN PLACE APPLICATIONS

**For use on:**

Stainless Steel
Processing Equipment
Laboratory Glassware
Plastics
Polycarbonates
Equipment
Aluminum
Animal Cages
Carbon & Urine Scales
Medical Devices Applications

**For use in the following facilities:**

Pharmaceutical
Biotechnology
Research and Development
Cosmetics
Medical Device
Food & Beverage
Animal

### What is Important?

The appropriate use of clean in place cleaners warrants two concerns. The first concern relates to the ability of the specific detergent to remove existent product residues that may exist in either open or closed processes manufacturing equipment, animal cages and vessels. The second concern is the ability to rinse free the product residue, any contamination that has entered and the clean in place detergent itself to assure that such surfaces are clean prior to the formulation and manufacturing of a new lot of product or the replacement of an animal.

**Cage2Wash 3** is a high performance concentrated phosphoric/citric acid liquid cleaning agent designed specifically for clean in place requirements in the pharmaceutical, biotechnology, cosmetic, medical device, animal, food and beverage industries. **Cage2Wash 3** is formulated with phosphoric acid, surfactants, chelating agents, and other critically essential cleaning ingredients. The wide array of components provides a stabilized formula that is capable of cleaning a multitude of product and non-product contact surfaces. The formulation is Veltek's most effective acid cleaning agent that is capable of removing a wide array of residues. This product is extremely effective in removing residues that include a wide array of inorganic salts, scales, particulate carbon, urine scales (on polycarbonate, stainless and other caging materials), proteins, excipients, fine chemicals, silicones, oils, petrolatum, polymers and most all types of organics. Routine use of this product reduces corrosion, pitting and rusting.

**Cage2Wash 3** is a low foaming cleaning agent (at all temperatures) and has enhanced cleaning ability to rinse free from systems. The phosphate free agent can be used in both CIP and COP applications. An extensive validation support package is available and is complimented with Veltek Associates, Inc.'s CORE (Critical Ongoing Residue Evaluation) Laboratory that can assist with specialized testing to meet your specific needs.

| Feature | Benefit |
|---|---|
| A low foaming, phosphate free formulated acid cleaner | This product cleans with a multitude of chemistries safer than general solvents or commodity chemicals. It is extremely effective in removing residues that include a wide array of inorganic salts, scales, particulate carbon, urine scales (on polycarbonate, stainless and other caging materials), proteins, excipients, fine chemicals, silicones, oils, petrolatum, polymers and most all types of organics. |
| Specific and non-specific methods to detect cleaning agent residues. The methods include HPLC, TOC, IC, IR, Freon and others | These methods can assist in the validation process of end users by eliminating the need for customers to develop their own analytical methods. The "CORE" System also develops specific methods unique to the customer's needs. |
| Complete Rinsing of Cleaning Agent Ingredients | The formula is designed to easily rinse free from product surfaces. Water rinse time period and volume is minimal. |
| All products are manufactured and tested from beginning to end in a FDA and EPA registered manufacturing facility. | Meets the highest standard in manufacturing and processing. |
| Lot Specific Documentation Package | All product is lot traceable and delivered each time with the lot specific certification. All lots are traced through the master batch records. |
| High Level of Quality | All products are made in controlled environments that include Class 100, Class 10,000 and Class 100,000. This assures the highest level of quality and cleanliness of the final product. |
| Phosphate Free Detergent | Environment Safe |
| Use concentrations range from .15% to 5%. | Dependent upon the requirements of the soil load to be cleaned varying concentrations are used to efficiently clean the existent residues in the shortest time period. |

| PHYSICAL PROPERTIES | |
|---|---|
| Appearance | Colorless Clear Liquid |
| Odor | Slight Chemical |
| Specific Gravity | 1.35 |
| pH - 1% solution (normal) | 2.0 |
| Solubility | Complete |
| Foaming | Minimal due to product enhancements |
| Rinsing | Excellent |

**EUROPEAN** ORDERING INFORMATION

| Order Number | Description | Container Size | Qty. per case |
|---|---|---|---|
| C-3-55G-01-E | Cage2Wash 3 Non-Sterile | 208.197 Liters | 1 |
| C-3-5G-01-E | Cage2Wash 3 Non-Sterile | 18.927 Liters | 1 |
| C-3-1G-01-E | Cage2Wash 3 Non-Sterile | 3.785412 Liters | 4 |

**ADDITIONAL DOCUMENTATION PACKAGES (Available Upon Request)**

- Sample Lot Specific Certification
- Technical Product PDF File
- Material Safety Data Sheet
- Product Cleaning Validation Report
- CORE Product Analysis

CAGE2WASH

four

# HYDROXYACETIC ACID DETERGENT




610-644-8335

CAGE2WASH

## HYDROXYACETIC ACID DETERGENT

Specifically Designed for Animal Research and Manufacturing Facilities

DESIGNED SPECIFICALLY FOR CRITICAL CLEAN IN PLACE APPLICATIONS

**For use on:**

Processing Equipment
Process Tanks and Vessels
Bioreactors
Derouging and Passivation Processes
High Pressure Spray Applications
Blending Equipment
Tablet Presses
Laboratory and Production Glassware Washing
Production and Testing Component Parts
Ultrasonic Cleaning
Animal Cages
Carbon & Urine Scales
Stainless Steel
Plastics
Polycarbonates
Aluminum
Medical Devices Applications

**For use in the following facilities:**

Pharmaceutical
Biotechnology
Research and Development
Cosmetics
Medical Device
Food & Beverage
Animal

### What is Important?

The appropriate use of clean in place cleaners warrants two concerns. The first concern relates to the ability of the specific detergent to remove existent product residues that may exist in either open or closed processes manufacturing equipment, animal cages and vessels. The second concern is the ability to rinse free the product residue, any contamination that has entered and the clean in place detergent itself to assure that such surfaces are clean prior to the formulation and manufacturing of a new lot of product or the replacement of an animal.

**Cage2Wash 4** is a high performance concentrated hydroxyacetic acid cleaner/descaler liquid cleaning agent designed specifically for clean in place requirements in the pharmaceutical, biotechnology, cosmetic, medical device, food and beverage industries. **Cage2Wash 4** is formulated with phosphoric acid, surfactants, chelating agents, and other critically essential cleaning ingredients. The wide array of components provides a stabilized formula that is capable of cleaning a multitude of product and non-product contact surfaces. The formulation is one of Veltek's most effective acid cleaning agents that is capable of removing a wide array of residues. This product was designed specifically for use in high pressure cleaning applications. The product is extremely effective in removing residues that include a wide array of inorganic salts, scales, particulate carbon, urine scales (on polycarbonate, stainless and other caging materials), proteins, excipients, fine chemicals, silicones, oils, petrolatum, polymers and most all types of organics. Routine use of this product is helpful in removal of free metals and reduces corrosion, pitting and rusting.

**Cage2Wash 4** is a low foaming cleaning agent (at all temperatures) and has enhanced cleaning ability to rinse free from systems. The phosphate free agent can be used in both CIP and COP applications. An extensive validation support package is available and is complimented with Veltek Associates, Inc.'s CORE (Critical Ongoing Residue Evaluation) Laboratory that can assist with specialized testing to meet your specific needs.

| Feature | Benefit |
|---|---|
| A low foaming, phosphate free formulated acid cleaner | This product cleans with a multitude of chemistries safer than general solvents or commodity chemicals. It is extremely effective in removing residues that include a wide array of inorganic salts, scales, particulate carbon, urine scales (on polycarbonate, stainless and other caging materials), proteins, excipients, fine chemicals, silicones, oils, petrolatum, polymers and most all types of organics. |
| Specific and non-specific methods to detect cleaning agent residues. The methods include HPLC, TOC, IC, IR, Freon and others | These methods can assist in the validation process of end users by eliminating the need for customers to develop their own analytical methods. The "CORE" System also develops specific methods unique to the customer's needs. |
| Complete Rinsing of Cleaning Agent Ingredients | The formula is designed to easily rinse free from product surfaces. Water rinse time period and volume is minimal. |
| All products are manufactured and tested from beginning to end in a FDA and EPA registered manufacturing facility. | Meets the highest standard in manufacturing and processing. |
| Lot Specific Documentation Package | All product is lot traceable and delivered each time with the lot specific certification. All lots are traced through the master batch records. |
| High Level of Quality | All products are made in controlled environments that include Class 100, Class 10,000 and Class 100,000. This assures the highest level of quality and cleanliness of the final product. |
| Phosphate Free Detergent | Environment Safe |
| Use concentrations range from 0.15% to 5%. | Dependent upon the requirements of the soil load to be cleaned varying concentrations are used to efficiently clean the existent residues in the shortest time period. |

## PHYSICAL PROPERTIES

| | |
|---|---|
| Appearance | Colorless Clear Liquid |
| Odor | Slight Chemical |
| Specific Gravity | 1.12 |
| pH - 1% solution (normal) | 2.8 |
| Solubility | Complete |
| Foaming | Minimal due to product enhancements |
| Rinsing | Excellent |

## **EUROPEAN** ORDERING INFORMATION

| Order Number | Description | Container Size | Qty. per case |
|---|---|---|---|
| C-4-55G-01-E | Cage2Wash 4 Non-Sterile | 208.197 Liters | 1 |
| C-4-5G-01-E | Cage2Wash 4 Non-Sterile | 18.927 Liters | 1 |
| C-4-1G-01-E | Cage2Wash 4 Non-Sterile | 3.785412 Liters | 4 |

**ADDITIONAL DOCUMENTATION PACKAGES (Available Upon Request)**

- Sample Lot Specific Certification
- Technical Product PDF File
- Material Safety Data Sheet
- Product Cleaning Validation Report
- CORE Product Analysis

CAGE2WASH

five

# CITRIC ACID
## CLEANER/DESCALER
# DETERGENT




610-644-8335

CAGE2WASH

## CITRIC ACID CLEANER/DESCALER DETERGENT

Specifically Designed for Animal Research and Manufacturing Facilities

DESIGNED SPECIFICALLY FOR CRITICAL CLEAN IN PLACE APPLICATIONS

**For use on:**

Stainless Steel
Processing Equipment
Laboratory Glassware
Plastics
Polycarbonates
Equipment
Aluminum
Animal Cages
Carbon & Urine Scales
Medical Devices Applications

**For use in the following facilities:**

Pharmaceutical
Biotechnology
Animal
Research and Development
Cosmetics
Medical Device
Food & Beverage

### What is Important?

The appropriate use of clean in place cleaners warrants two concerns. The first concern relates to the ability of the specific detergent to remove existent product residues that may exist in either open or closed processes manufacturing equipment, animal cages and vessels. The second concern is the ability to rinse free the product residue, any contamination that has entered and the clean in place detergent itself to assure that such surfaces are clean prior to the formulation and manufacturing of a new lot of product or the replacement of an animal.

**Cage2Wash 5** is a high performance concentrated liquid organic acid cleaner/descaler cleaning agent designed specifically for clean in place requirements in the pharmaceutical, biotechnology, animal, cosmetic, medical device, food and beverage industries. **Cage2Wash 5** is formulated with citric acid, surfactants, chelating agents, and other critically essential cleaning ingredients. The wide array of components provides a stabilized formula that is capable of cleaning a multitude of product and non-product contact surfaces. This product is extremely effective in removing residues that include a wide array of inorganic salts, scales, particulate carbon, urine, animal fats, oils and most all types of organics. **Cage2Wash 5** is safe for use on stainless steel, aluminum, galvanized steel, soft metals, glass, polypropylene, polycarbonates and a wide variety of plastics. The product is an excellent choice for racking and cage wash machines.

# CAGE2WASH

**Cage2Wash 5** is a low foaming cleaning agent (at all temperatures) and has enhanced cleaning ability to rinse free from systems. The phosphate free agent can be used in both CIP and COP applications. An extensive validation support package is available and is complimented with Veltek Associates, Inc.'s CORE (Critical Ongoing Residue Evaluation) Laboratory that can assist with specialized testing to meet your specific needs.

| Feature | Benefit |
|---|---|
| A low foaming, phosphate free formulated citric acid cleaner | This product cleans with a multitude of chemistries safer than general solvents or commodity chemicals. It is extremely effective in removing residues that include a wide array of inorganic salts, scales, particulate carbon, urine, animal fats, oils and most all types of organics. |
| Specific and non-specific methods to detect cleaning agent residues. The methods include HPLC, TOC, IC, IR, Freon and others | These methods can assist in the validation process of end users by eliminating the need for customers to develop their own analytical methods. The "CORE" System also develops specific methods unique to the customer's needs. |
| Complete Rinsing of Cleaning Agent Ingredients | The formula is designed to easily rinse free from product surfaces. Water rinse time period and volume is minimal. |
| All products are manufactured and tested from beginning to end in a FDA and EPA registered manufacturing facility. | Meets the highest standard in manufacturing and processing. |
| Lot Specific Documentation Package | All product is lot traceable and delivered each time with the lot specific certification. All lots are traced through the master batch records. |
| High Level of Quality | All products are made in controlled environments that include Class 100, Class 10,000 and Class 100,000. This assures the highest level of quality and cleanliness of the final product. |
| Phosphate Free Detergent | Environment Safe |
| Use concentrations range from 0.2% to 5%. | Dependent upon the requirements of the soil load to be cleaned varying concentrations are used to efficiently clean the existent residues in the shortest time period. |

## PHYSICAL PROPERTIES

| | |
|---|---|
| Appearance | Amber Clear Liquid |
| Odor | Slight Chemical |
| Specific Gravity | 1.25 |
| pH - 1% solution (normal) | 1.0 |
| Solubility | Complete |
| Foaming | Minimal due to product enhancements |
| Rinsing | Excellent |

## **EUROPEAN** ORDERING INFORMATION

| Order Number | Description | Container Size | Qty. per case |
|---|---|---|---|
| C-5-55G-01-E | Cage2Wash 5 Non-Sterile | 208.197 Liters | 1 |
| C-5-5G-01-E | Cage2Wash 5 Non-Sterile | 18.927 Liters | 1 |
| C-5-1G-01-E | Cage2Wash 5 Non-Sterile | 3.785412 Liters | 4 |

**ADDITIONAL DOCUMENTATION PACKAGES (Available Upon Request)**

- Sample Lot Specific Certification
- Technical Product PDF File
- Material Safety Data Sheet
- Product Cleaning Validation Report
- CORE Product Analysis

# VELTEK ASSOCIATES, INC.

## PURCHASING PRODUCTS AND AVAILABLE TECHNICAL DOCUMENTATION

### Main Offices:

15 Lee Boulevard
Malvern, PA 19355-1234 U.S.A.
T: (610) 644-8335 (toll free within the USA at 1-888-4 STERILE (888-478-3745) )
F: (610) 644-8336
Website: www.sterile.com
E-mail: vai@sterile.com

### Technical Support:

VAI Technical Support Group can be contacted through our main manufacturing office at (610) 644-8335 or toll free within the USA at 1-888-4 STERILE (888-478-3745). VAI Technical Support Group can also be reached via e-mail at SALES@sterile.com or via our website at http://www.sterile.com

### Technical Documentation:

Technical documentation for each product is available via e-mail, fax or CD in Adobe Acrobat PDF format. This includes product specifications, testing and Material Safety Data Sheets.

### Worldwide Distribution:

VAI's infrastructure incorporates 300 worldwide stocking distributors. Please contact VAI's Customer Support for your local distribution organization at Tel: (610) 644-8335 (toll free within the USA at 1-888-4 STERILE (888-478-3745) ).

Visit us online at www.sterile.com

VELTEK ASSOCIATES, INC.

WWW.STERILE.COM
TEL: (610) 644-8335
FAX: (610) 644-8336

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