

# VELTEK ASSOCIATES, INC.

# **TECHNICAL DATA FILES**



# **DECON-CLEAN®**

# Residue Remover and Cleaner Sterile Pharmaceutical Cleanroom Formula

15FEB2023

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#### DECON-CLEAN Sterile 11 oz Aerosol Spray DCWFI-SP-11Z



# PRODUCT OVERVIEW

VAI<sup>®</sup> manufactures an effective one-step residue remover and cleaner, **DECON-CLEAN<sup>®</sup>**. Using **DECON-CLEAN**, one can ensure that noticeable and unnoticeable residues are removed, thus returning the surface to its original form. Residues left behind from disinfectants, sanitizers, and sporicides, including sodium hypochlorite can be easily removed using **DECON-CLEAN**. Returning the surface to its original form assures that future decontamination will be able to penetrate to the surface.

**DECON-CLEAN** is designed for and processed to meet the standards required by pharmaceutical, biotechnology, healthcare, and lab animal research operations that demand a cleaning agent to remove residues left behind from disinfecting agents. Due to **DECON-CLEAN**'s formulation it is an excellent cleaner designed for all washable, non-porous environmental surfaces.

# DECON-CLEAN is an effective one-step residue remover when diluted at 1:128 (1 oz per 1 gallon) of hard or soft water (400 ppm hard as CaCO<sup>3</sup>).

**DECON-CLEAN** is filled in an ISO 7 cleanroom (Grade B), filtered, and then subsequently terminally sterilized to 10<sup>-6</sup> sterility assurance level. Each lot of **DECON-CLEAN** is sterility tested according to current USP Compendium, is completely traceable, and has been completely validated for sterility and shelf life. **DECON-CLEAN** is delivered each time with a lot specific analytical, irradiation, and sterility data, tested to current USP compendium.

**DECON-CLEAN** is available in multiple container sizes and in our patented SimpleMix<sup>®</sup> system that allows for safe and fresh dilutions every single time. Each sterile container of **DECON-CLEAN** is individually double bagged and packaged in two liner bags using the ABCD Cleanroom Introduction System<sup>®</sup>.

Please see the "TESTING SUMMARY" on page 14 for information on using **DECON-CLEAN** to remove representative disinfecting agents.

# **Quality and Manufacturing**

- Filled in an ISO 7 cleanroom (Grade B)
- Filtered
- Components are air washed with 0.2 micron filtered air before assembly
- Gamma irradiated at a 10<sup>-6</sup> SAL
- Lot sterility tested according to current USP compendium
- Completely traceable from start to finish
- Completely validated for sterility and shelf life



#### **Features and Benefits**

- Each sterile container is double bagged in easy tear packaging
- Quadruple bagged in the ABCD Cleanroom Introduction System<sup>®</sup>
- Individually labeled with lot number and expiration
- Delivered with lot specific analytical, irradiation, and sterility data, tested to current USP compendium
- Available in our convenient, one-step, ready-to-use, SimpleMix System made with USP Water for Injection (< 0.25 EU/mL)
- Removes residues left behind by sanitizers, disinfectants, and sporicides
- Excellent cleaning characteristics

### **Product Uses**

- All washable, non-porous, environmental surfaces
- Aseptic filling suites, controlled corridors
- Aseptic connections, process lines
- Walls, floors, ceilings, counter tops
- Stainless steel

# **ABCD Cleanroom Introduction System®**

The ABCD Cleanroom Introduction System is a packaging system that allows operators/users to take the package through each level of classified areas by simply removing one bag at a time. Each bag acts as barrier protecting the finished product from becoming a carrier of viable and non-viable contamination. This prevents the need to decontaminate each outer bag prior to entering a cleaner area. In this packaging system, sterilized groups of containers are contained in two outer bags and after each are removed individual containers are each additionally contained in two easy tear bags.





## **SIMPLEMIX®**

# The SimpleMix System Technology Alternative

Veltek Associates, Inc. has developed the patented SimpleMix System Technology to eliminate measuring and additional containers. It provides for the transfer of the sterile concentrate and sterile water in a sealed container to the aseptic area. The system container is double bag packaged for easy transfer and eliminates all internal and external sterility concerns. The patented SimpleMix System provides a sealed multi-chamber container that when activated mixes the solution to the correct use dilution. The small chamber holds the concentrate, and the bottom reservoir contains the VAI WFI Quality Water. Just open the small chamber cap, push the plunger container completely down until the bottom pops open and the bellows are compressed. The solution and water mix together. 200L SimpleMix systems are activated through a hose and valve system connecting the cubicontainer of concentrate to the VAI WFI Quality Water. The SimpleMix System design permits the easy transfer of the product to the aseptic manufacturing area without concern for the transfer of contamination.

#### **SimpleMix Directions for Use**

#### How to use the SimpleMix Trigger Spray

- 1. To prepare use solution, open cap.
- 2. Peel off inner seal by grasping tab at far edge and pulling off.
- 3. Firmly push small, inner container completely down.
- 4. Replace cap and tighten.
- 5. Slowly swirl for 15 seconds.
- 6. Move spray nozzle to open position.
- 7. Follow directions for use on label.

For pictorial directions, see page 7.

#### How to use the SimpleMix Gallon Size

- 1. To prepare use solution, open cap.
- 2. Peel off inner seal by grasping far edge and pulling off.
- 3. Firmly push small, inner container completely down.
- 4. Replace cap and tighten.
- 5. Slowly swirl for 15 seconds.
- 6. Open small side spout and peel off inner seal, as above.
- 7. Pour solution from small side spout onto surfaces to be treated or alternate containers.
- 8. Follow directions for use on label.

For pictorial directions, see page 8.



#### How to use the SimpleMix 200 Liter Drum

#### To be used with a Veltek Associates, Inc. pump.

- 1. Close all valves.
- 2. Uncoil hoses.
- 3. Connect center hose to pump between X and Y.
- 4. Open valve 1, then valve 2, then valve 4.
- 5. START pump to empty cubic container.
- 6. When cubic container is empty, turn pump OFF.
- 7. Close valve 1 and valve 2.
- 8. Open valve 6 and valve 5.
- 9. Re-start pump and mix 15 minutes
- 10. STOP pump.
- 11. Close valve 4.
- 12. To dispense Open valves 3 and 7. Run pump only when dispensing.
- 13. Follow directions for use on label.

For pictorial directions, see page 9.



SimpleMix Trigger 16 oz DC-06-16Z-01



SimpleMix Gallon 1 Gallon DC-04-1Z



SimpleMix Drum 200L DC-10-200L-CI



#### SimpleMix Trigger Spray

SIMPLE 16 oz/473 mL Aseptic Mixing System For the Exact Formulation of 16 oz/473 mL Disinfectants and Sporicides Ready-to-Use Mixing Instructions

1) To prepare use solution, open cap. 2) Peel off inner seal by grasping tab at far edge and pulling off.



4) Replace cap and tighten.

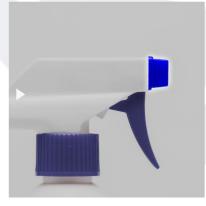
3) Firmly push small, inner container all the way down.



5) Slowly swirl for 15 seconds.



6) Move spray nozzle to open position.





7) Follow directions for use on label.



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#### SimpleMix Gallon

SIMPLE 1 Gallon/3.79 L Aseptic Mixing System

For the Exact Formulation of 1 Gallon/3.79 L Size Disinfectants and Sporicides

# **Ready-to-Use Mixing Instructions**

 To prepare use solution, open cap.
Peel off inner seal by grasping tab at far edge and pulling off.



4) Replace cap and tighten.

3) Firmly push small, inner container all the way down.



5) Slowly swirl for 15 seconds.



6) Open small side spout and peel off inner seal, as above.



7) Pour solution from small side spout onto surfaces to be treated or alternate containers.



8) Follow directions for use on label.

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#### SimpleMix Drum

SIMPLE 200 L Aseptic Mixing System

For Large Scale Aseptic Manufacturing Environments Ready-to-Use Mixing Instructions

Remove cubic container from top of

drum. 1) Close all valves. 2) Uncoil hoses.

5) START pump to empty cubic container. 6) When cubic container is empty, turn

pump OFF.

Remove drum from double-bag packaging.



4) Open valve 1, then valve 2, then valve 4.



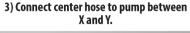
8) Open valve 6 and valve 5.



9) Re-start pump and mix 15 minutes. 10) Stop pump.



13) Follow directions for use on label.





7) Close valve 1 and valve 2.



11) Close valve 4. 12) To dispense- Open valves 3 and 7. Run pump only when dispensing.



# **CHEMICAL SPECIFICATIONS**

DECON-CLEAN – Residue Remover and Cleaner		
Certificate of Analysis	Specification	
Appearance	Clear free of suspended matter	
Solubility in Water	Completely	
% Nonvolatile Matter	=20.0%</td	
pH of Concentrate	9.0-11.0	
Specific Gravity @20 degrees	1.010-1.040	
Expiration Period	2 years	

# **ORDERING INFORMATION**

DC-03-4Z

DECON-CLEAN -	- Residue Remover and Cleaner	
Part Number	Description	Qty/cs
DCWFI-SP-11Z	DECON-CLEAN, 11 oz Aerosol Spray Mist, Sterile	24
DC-01	DECON-CLEAN, 1 Gallon Concentrate, Non-Sterile	4
DC-02	DECON-CLEAN, 1 Gallon Concentrate, Sterile	4
DC-03-4Z	DECON-CLEAN, 4 oz Concentrate, Unit Dose, Sterile	24
DC-04-1Z	DECON-CLEAN, 1 Gallon SimpleMix <sup>®</sup> , Sterile	4
DC-05-1Z	DECON-CLEAN, 1 Gallon SimpleMix, Non-Sterile	4
DC-06-16Z-01	DECON-CLEAN, 16 oz SimpleMix, Attached Trigger, Sterile	12
DC-07-16Z-01	DECON-CLEAN, 16 oz SimpleMix, Attached Trigger, Non-Sterile	12
DC-100-200L-CI	DECON-CLEAN, 200L SimpleMix Drum, Sterile	1



DC-01

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DCWFI-SP-11Z

# **LABELING**

# VAI's Product Label Colors

Product Name	Bottle/Can Color	Label Background Color	Bar & User Info Color	Text Color
DECON-AHOL WFI FORMULA 70% AEROSOL	COOL GREY	PRINTED CAN COOL GREY		
DECON-AHOL WFI FORMULA 70% TRIGGER SPRAY, 1 & 5 GALLON	WHITE	COOL GREY		
DECON-AHOL WFI FORMULA 70% SQUEEZE BOTTLE	WHITE SEMI-TRANSPARENT	COOL GREY		
DECON-AHOL WFI FORMULA 70% ASEPTI-CLEANSE BOTTLE	WHITE SEMI-TRANSPARENT	COOL GREY		
DECON-AHOL WFI FORMULA 60%	WHITE	COOL GREY		
DECON-AHOL WFI FORMULA 91%	WHITE	COOL GREY		
DECON-AHOL FORMULA 99%	WHITE	COOL GREY		
STER-AHOL WFI AEROSOL	WHITE	PRINTED CAN WHITE		
STER-AHOL WFI TRIGGER SPRAY, 1 & 5 GALLON	WHITE	WHITE		
DECON-HAND STERILE	WHITE SEMI-TRANSPARENT	PRINTED BOTTLE		
DECON-HAND NON-STERILE	CLEAR	PRINTED BOTTLE		
DECON-HAND ASEPTI-CLEANSE BOTTLE	WHITE SEMI-TRANSPARENT	WHITE		
STERI-OIL	WHITE	WHITE		
STERI-BUFFER	CLEAR	WHITE		
DECON-PHENE	WHITE	WHITE		
DECON-CYCLE	WHITE	WHITE		
DECON-CLEAN	WHITE	WHITE		
DECON-QUAT 100	WHITE	WHITE		
DECON-QUAT 200C	WHITE	WHITE		
DECON-QUAT 200V	WHITE	WHITE		
HYPO-CHLOR 0.25%	WHITE	WHITE		
HYPO-CHLOR 0.52%	WHITE	WHITE		
HYPO-CHLOR 5.25%	WHITE	WHITE		
HYPO-CHLOR Neutral 0.25%	WHITE	WHITE		
HYPO-CHLOR Neutral 0.52%	WHITE	WHITE		
STERI-PEROX 3%	WHITE	WHITE		
STERI-PEROX 6%	WHITE	WHITE		
DECON-SPORE 200 PLUS (SPORICIDE)	WHITE SEMI-TRANSPARENT	WHITE		
DECON-SPORE 200 PLUS (DISINFECTANT)	WHITE SEMI-TRANSPARENT	WHITE		
STEEL-BRIGHT	WHITE	WHITE		
STERI-SILICON	WHITE	BLACK		
DECON-GLASS	WHITE	WHITE		
VAI WFI QUALITY WATER	WHITE	WHITE		
STERI-WATER	WHITE	WHITE		



#### **Product Labeling**

# DECON-CLEAN Sterile Pharmaceutical Cleanroom Formula Residue Remover and Cleaner



Case Label DC-00 Rev10/22

Any specific product label is available upon request.



DC-10-200L-CI Drum



# **DECON-CLEAN**

#### STERILE PHARMACEUTICAL CLEANROOM FORMULA

Residue Remover and Cleaner • Fragrance Free • Filtered and Gamma Irradiated at 10<sup>6</sup> SAL

#### **INGREDIENTS:**

Tall oil, fatty acids, potassium salts (CAS# 61790-44-1) .....7.5%

C9-11 Alcohol ethoxylated (CAS# 68439-46-3) ......2.0%

OTHER INGREDIENTS: Water, Tetrasodium EDTA, Tetrasodium pyrophosphate\*

\*elemental phosphate less than 0.2% by weight of concentrate before use dilution

WARNING. Causes eye irritation.

**PRECAUTIONARY STATEMENTS:** Wash hands thoroughly after handling. **If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**DIRECTIONS FOR USE:** Mix 1 ounce of DECON-CLEAN<sup>®</sup> with 1 gallon of water (1:128). Apply product generously to wet entire surface and use mechanical action to loosen residue. Squeegee off, wipe dry or rinse with clean water and dry.

Red dot indicates Sterile

See container for lot #/ Expiration Date

#### See Safety Data Sheet for first aid and additional product information.

#### **EMERGENCY NUMBER:**

1-866-928-0789 (toll free USA) 1-800-579-7421 (toll free Canada) 1-215-207-0061 (Americas)

#### For Industrial Use Only

Label#: DC-00 • Rev10/22 • Patents: <u>www.sterile.com/patents</u>

#### **Manufactured By:**

Veltek Associates, Inc. 15 Lee Blvd. Malvern, PA 19355-1234 USA Tel: 1-610-644-8335 • <u>www.sterile.com</u>



# **TESTING SUMMARY**

#### **DECON-CLEAN**

# **Residue Remover and Cleaner for Hard Surfaces**

#### **Sterile Pharmaceutical Clean Room Formula**

# Surface Evaluation for Determining the Residual Levels of VAI Sterile Chemicals and Disinfectants

#### **Discussion and Purpose of Testing**

The aim of this study was to evaluate the cleaning efficiency of the new environmentally friendly and biodegradable DECON-CLEAN formula. In accordance with recent EPA regulations (Significant New Use Rule, 25 Sep 2014) the DECON-CLEAN formula was updated and the alkylphenol based detergent was replaced with environmentally friendly ethoxylated alcohol surfactant.

Chemical residues can be quantified and appropriate operating procedures can be developed to reduce their existence on surfaces. VAI developed DECON-CLEAN residue remover to assure the removal of existing chemical residues. By removing these residues, a class 100 aseptic facility is less likely to transfer existing residues from their initial location to critical manufacturing sites.

#### **Particulate Impurities**

Particulate impurities can cause contamination problems and may provide a nutrient source for existing organisms in the aseptic manufacturing area. Particulate impurities can be removed from solution by filtration. All VAI sterile chemicals and disinfectants receive a level of filtration.

#### **Chemical Ingredient Residues**

Chemical ingredient residues pose a complicated problem associated with both buildup and crosscontamination. The removal of such residues should be considered as a standard practice to eliminate the possibility of these concerns.

#### **DECON-CLEAN** as a Residue Remover

DECON-CLEAN has been developed to cope with the removal of residues within the ISO 5 (Grade A/Class 100) aseptic manufacturing operation. The patented formula assures the breakdown of VAI's DECON-AHOL<sup>®</sup>, STER-AHOL<sup>®</sup>, DECON-PHENE<sup>®</sup> II, DECON-CYCLE<sup>®</sup> II, DECON-QUAT<sup>®</sup> 100, HYPO-CHLOR<sup>®</sup>, STERI-PEROX<sup>®</sup>, DECON-QUAT 200, Cage2Wash<sup>®</sup>, Process2Clean<sup>®</sup> and DECON-SPORE 200<sup>®</sup> Plus products. Once broken down, these residues or remnants of chemicals may be mopped, sponged, wiped or rinsed free from the surface.



## **TESTING SUMMARY (Continued)**

## **DECON-CLEAN's Effectiveness Test Procedure**

DECON- CLEAN was tested against the following chemicals for effectiveness of residue removal and was found extremely effective in the control of residual levels.

- DECON-AHOL<sup>®</sup> (70% and 91% RTU)
- DECON-CYCLE<sup>®</sup> II (1:256 Use Dilution)
- DECON-PHENE<sup>®</sup> II (1:128 Use Dilution)
- DECON-QUAT<sup>®</sup> 100 (2:128 Use Dilution)
- DECON-SPORE<sup>®</sup> 200 Plus (5%)
- HYPO-CHLOR<sup>®</sup> (5.25%, 0.52%, 0.25%)
- STER-AHOL<sup>®</sup> (70% RTU)
- STERI-PEROX<sup>®</sup> (3% and 6%)

#### **Test Procedure**

- 1. Residue and residue removal were determined gravimetrically.
- 2. Stainless steel coupons (316L) were used as the test surface.
- 3. Testing was conducted in a Class 100 laminar flow hood.
- 4. All appropriate safety precautions were taken. All safety precautions are to be taken referencing safety. This includes gowning, gloves and a NIOSH approved chemical mask.
- 5. 5 mL of each chemical was prepared and applied to separate stainless steel coupons.
- 6. The chemicals were permitted to air dry.
- 7. The chemical residue was determined gravimetrically.
- 8. Cleaning was performed with DECON-CLEAN by two separate methods; spray rinse only and mechanical cleaning.
- 9. Residue after cleaning was determined gravimetrically.



# **TESTING SUMMARY (Continued)**

#### **Chemical Residue after Drying**

Chemical Tested	Results
DECON-AHOL® 70% (RTU)	ppm of isopropyl alcohol = 0 ppm*
DECON-AHOL 91% (RTU)	ppm of isopropyl alcohol = 0 ppm*
STER-AHOL <sup>®</sup> 70% (RTU)	ppm of ethanol $= 0$ ppm*
DECON-PHENE <sup>®</sup> II (1:128 Use Dilution)	ppm of Phenols and Chlorophenols = 2 ppm
DECON-CYCLE <sup>®</sup> II (1:256 Use Dilution)	ppm of Phenols and Chlorophenols = 3 ppm
DECON-QUAT <sup>®</sup> 100 (2:128 Use Dilution)	ppm of Ammonium Chloride = 3 ppm
HYPO-CHLOR <sup>®</sup> 5.25%	ppm of Sodium Chloride = 252 ppm
HYPO-CHLOR 0.52%	ppm of Sodium Chloride = 30 ppm
HYPO-CHLOR 0.25%	ppm of Sodium Chloride = 18 ppm
STERI-PEROX <sup>®</sup> 3%	ppm Hydrogen Peroxide = 1 ppm*
STERI-PEROX 6%	ppm Hydrogen Peroxide = 1 ppm*
DECON-SPORE <sup>®</sup> 200 Plus (5%)	ppm Peroxyacetic acid = 3 ppm

\* No residue detectable gravimetrically

#### Testing Residue Removal Ability of DECON-CLEAN as a SPRAY RINSE ONLY

After the chemical residue was established on the surface, the surface was cleaned with a RINSE ONLY of DECON-CLEAN at a use dilution of 1:128.

Chemical Tested	Results
DECON-AHOL® 70% (RTU)	ppm of isopropyl $alcohol = 0$ ppm
DECON-AHOL 91% (RTU)	ppm of isopropyl $alcohol = 0$ ppm
STER-AHOL <sup>®</sup> 70% (RTU)	ppm of ethanol $= 0$ ppm*
DECON-PHENE <sup>®</sup> II (1:128 Use Dilution)	ppm of Phenols and Chlorophenols $= 0$ ppm
DECON-CYCLE <sup>®</sup> II (1:256 Use Dilution)	ppm of Phenols and Chlorophenols = 0 ppm
DECON-QUAT <sup>®</sup> 100 (2:128 Use Dilution)	ppm of Ammonium Chloride $= 0$ ppm
HYPO-CHLOR <sup>®</sup> 5.25%	ppm of Sodium Chloride = 1 ppm
HYPO-CHLOR 0.52%	ppm of Sodium Chloride = 0 ppm
HYPO-CHLOR 0.25%	ppm of Sodium Chloride = 0 ppm
STERI-PEROX <sup>®</sup> 3%	ppm Hydrogen Peroxide = 0 ppm*
STERI-PEROX 6%	ppm Hydrogen Peroxide = 0 ppm*
DECON-SPORE <sup>®</sup> 200 Plus (5%)	ppm Peroxyacetic acid = 0 ppm
* Visual residue spots not detectable gravimetrical	N/

\* Visual residue spots, not detectable gravimetrically



## **TESTING SUMMARY (Continued)**

#### Testing Residue Removal Ability of DECON-CLEAN USING MECHANICAL CLEANING

After the chemical residue was established on the surface, the surface was cleaned with a DECON-CLEAN application at a use dilution of 1:128 and using a VEL8-12X12 Dry Wiper with a circular mechanical cleaning action.

Chemical Tested	Results
DECON-AHOL® 70% (RTU)	ppm of isopropyl alcohol = 0 ppm
DECON-AHOL 91% (RTU)	ppm of isopropyl alcohol = $0$ ppm
STER-AHOL <sup>®</sup> 70% (RTU)	ppm of ethanol $= 0 \text{ ppm}^*$
DECON-PHENE <sup>®</sup> II (1:128 Use Dilution)	ppm of Phenols and Chlorophenols $= 0$ ppm
DECON-CYCLE <sup>®</sup> II (1:256 Use Dilution)	ppm of Phenols and Chlorophenols = 0 ppm
DECON-QUAT <sup>®</sup> 100 (2:128 Use Dilution)	ppm of Ammonium Chloride = 0 ppm
HYPO-CHLOR <sup>®</sup> 5.25%	ppm of Sodium Chloride = 0 ppm
HYPO-CHLOR 0.52%	ppm of Sodium Chloride = 0 ppm
HYPO-CHLOR 0.25%	ppm of Sodium Chloride = 0 ppm
STERI-PEROX <sup>®</sup> 3%	ppm Hydrogen Peroxide = 0 ppm*
STERI-PEROX 6%	ppm Hydrogen Peroxide = 0 ppm*
DECON-SPORE <sup>®</sup> 200 Plus (5%)	ppm Peroxyacetic acid = 0 ppm*

\* No visual residue spots

#### Conclusion

It is concluded from the testing performed that the use of DECON-CLEAN is extremely effective as a chemical residue remover. Furthermore, the incorporation of mechanical cleaning further reduces the levels of residues as well as any visual, but gravimetrically undetectable, residue spots.

Written By:	Boris Polanuyer	Date:	05Oct2015
Approved By:	Kelly Rocco	Date:	05Oct2015



# ADDITIONAL DOCUMENTATION

Upon request, the following additional documentation is available:

- Product Testing Reports
- Product Labels
- Product Validation
- Safety Data Sheet
- Sample Lot Specific Documentation Delivered with lot specific analytical, irradiation, and sterility data, tested to current USP compendium



VAI<sup>®</sup>'s SCMD Product Family

VAI's Sterile Chemical Manufacturing Division (SCMD) manufactures a complete range of cleaning agents and disinfectants that are used daily in cleanroom operations. Overall, VAI's capabilities for manufacturing products include the ability to fill aerosol, bulk, and unit dose packages in ISO 5 or 7 (Grade A/B). 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. VAI's operations mirror current GMP's and enforces the adherence to USP specifications. VAI is an EPA and FDA registered facility.

For more information call 610-644-8335, email <u>sales@sterile.com</u> or visit our website at <u>www.sterile.com</u>. Patents: <u>www.sterile.com/patents</u>