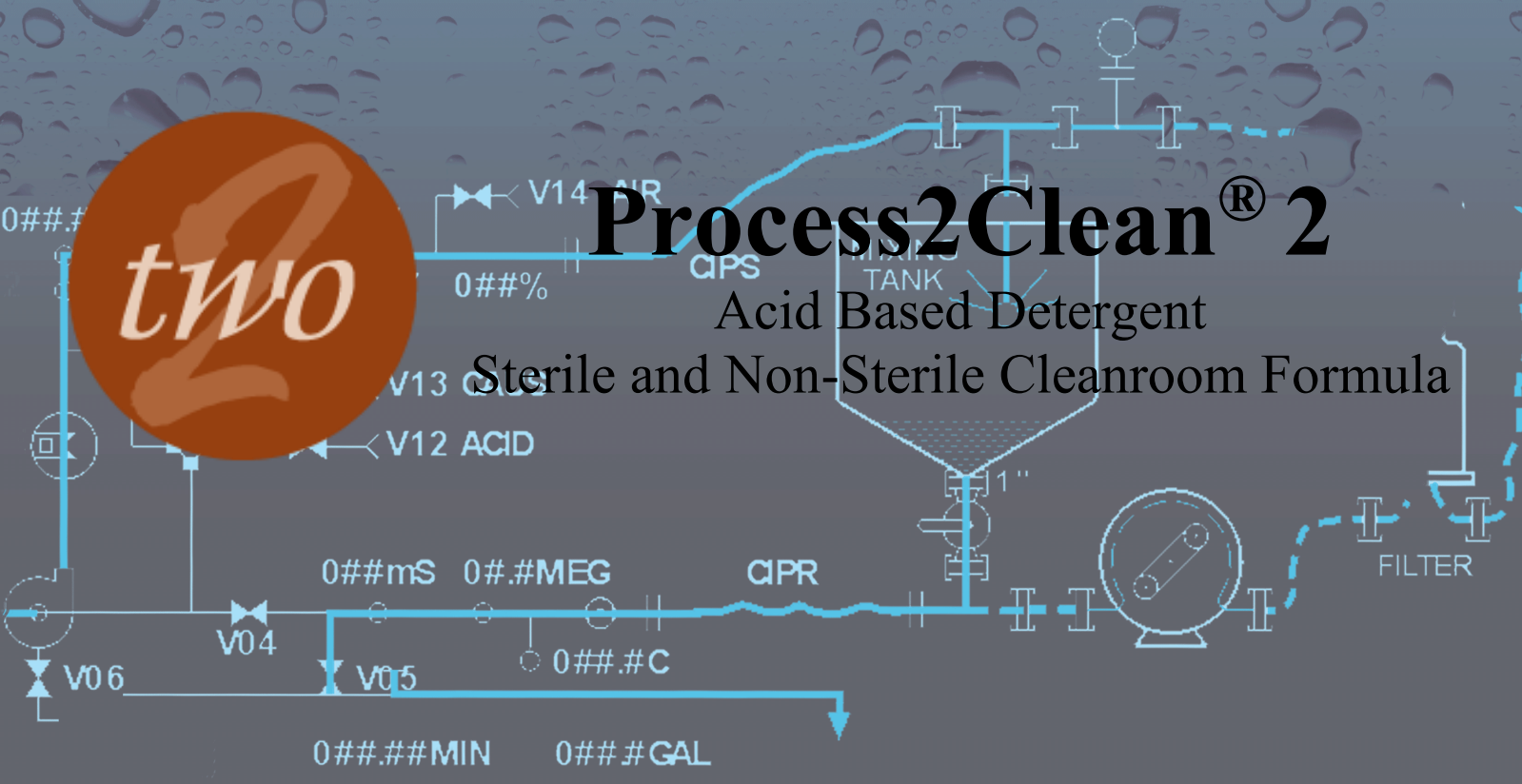




VELTEK ASSOCIATES, INC.

# TECHNICAL DATA FILES



## Process2Clean<sup>®</sup> 2

Acid Based Detergent

Sterile and Non-Sterile Cleanroom Formula

## **Product Description**

**Process2Clean 2** is a high performance, concentrated, liquid acid detergent, and is VAI's most effective acid cleaning agent that is capable of removing a wide array of residues. Routine use of this highly built and stabilized formula helps to reduce corrosion, pitting, and rusting. Its unique formulation of phosphoric acid, chelating agents, Water for Injection, unique proprietary surfactants, and other critically essential cleaning ingredients is capable of cleaning a multitude of product and non-product contact surfaces. **Process2Clean 2** is low foaming, has excellent detergency characteristics, and is very free rinsing.

**Process2Clean 2** is available either sterile or non-sterile in 1 gallon, 5 gallon, 30 gallon, 55 gallon, or 275 gallon containers. Sterile **Process2Clean 2** is manufactured via aseptic fill at 0.2 microns into gamma irradiated sterile components in ISO 5 (Grade A/B, Former Class 100) then subsequently double bagged. All sterile product is lot sterility tested according to current USP compendium and is completely lot traceable from start to finish. Non-Sterile versions are delivered with a lot specific Certificate of Analysis, whereas, sterile versions are delivered with a lot specific Certificate of Analysis and Certificate of Sterility.

## **Product Use**

**Process2Clean 2** has been specifically designed for the pharmaceutical, biotechnology, cosmetic, medical device, food & beverage, and research & development industries. Optimal use applications include: automated wash equipment, spray systems, soak, and manual cleaning. Under recommended use dilution applications and conditions, **Process2Clean 2** is compatible with stainless steel, glass, and a variety of plastics.

**Process2Clean 2** is extremely effective in removing a wide assortment of inorganic soils including but not limited to scale deposits, fine chemicals, polymers, particulate carbons, and coatings. **Process2Clean 2** is especially effective on antacid formulations.

Typical use dilution for **Process2Clean 2** is 0.5% - 5.0%. Precise temperature, concentration, and cleaning time will depend on the degree and type of soil present. All surfaces should be rinsed thoroughly to remove all product and soil residues following cleaning.

## **Features and Benefits**

- Formulation with chelating agents allows for hard water tolerance
- Premium surfactants equal great wetting abilities for optimal penetration
- High concentration translates into low cost per use
- Minimal to no foaming at all temperatures is ideal for optimal automatic cleaning
- Available lot specific documentation packages ensure product consistency and integrity
- Detergency capabilities eliminates the need to use a hazardous organic solvent
- Stabilized formula that is capable of cleaning a multitude of surfaces
- Routine use reduces corrosion, pitting, and rusting
- Compatible at use dilution on most all substrates
- Multiple container sizes available for optimal application

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## **Quality and Manufacturing**

- Sterile versions are aseptically filled into gamma irradiated sterile components
- Sterile versions are sterility tested according to current USP compendium
- Completely traceable from start to finish
- Delivered with lot specific documentation
- Formulated with Water for Injection, premium proprietary surfactants, and chelating agents

<b>Process2Clean 2 – Acid Based Detergent</b>	
<b>Certificate of Analysis</b>	<b>Specifications</b>
Specific Gravity:	1.170 – 1.370
Clarity:	Clear
Color:	Clear – Pale Yellow
APHA Color:	<= 25
pH (1% solution):	0.86 – 2.86
Conductivity (1% solution):	5.1 – 9.1 mS
Iron:	<10 ppm
IR Scan:	Match Reference
Heavy Metal as Pb:	<=10 ppm
Acidity:	40 – 50%
<b>Technical Data</b>	<b>Specifications</b>
Ingredients:	Phosphoric Acid, HEDTA, Alcohols, Citric Acid, Chelants, Surfactants, WFI
Phosphoric Acid Content:	30 – 45%
Appearance:	Clear
Characteristic:	Acidic
Odor:	Slight Odor
P Content:	29.70%
Detergency:	Excellent
Solubility:	Miscible with water
Foaming:	Low
Rinsing:	Excellent
Biodegradable:	Yes
Storage Recommendation:	Ambient
Flash Point:	Not flammable
Expiration Period:	3 years

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## Ordering Information

Process2Clean 2 – Acid Based Detergent		
Part Number	Description	Qty/cs.
PC-2-1G-01	Process2Clean 2, 1 Gallon, Non-Sterile	4
PC-2-1G-02	Process2Clean 2, 1 Gallon, Sterile	4
PC-2-5G-01	Process2Clean 2, 5 Gallon Drum, Non-Sterile	1
PC-2-5G-02	Process2Clean 2, 5 Gallon Drum, Sterile	1
PC-2-30G-01	Process2Clean 2, 30 Gallon Drum, Non-Sterile	1
PC-2-30G-02	Process2Clean 2, 30 Gallon Drum, Sterile	1
PC-2-55G-01	Process2Clean 2, 55 Gallon Drum, Non-Sterile	1
PC-2-55G-02	Process2Clean 2, 55 Gallon Drum, Sterile	1
PC-2-275G-01	Process2Clean 2, 275 Gallon Drum, Non-Sterile	1



PC-2-1G-01



PC-2-55G-01

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### **Critical Ongoing Residue Evaluation (CORE)**

The CORE program is a service offered within the VAI Laboratories division of VAI. The focus of the division is to provide our clients with a specialized laboratory service that can assist them in performing product contact cleaning evaluation studies as an external service. This department tests user product residues on Stainless Steel coupons in our unique CORE Analysis Chamber to determine the level of cleaning achieved by our Process2Clean detergents. Testing is designed around our client's product residues and detergent choice to provide you, the client, a sound scientific rationale in your Process2Clean detergent selection. CORE ultimately helps the end user implement the necessary internal and external regulatory expectations and choose the correct Process2Clean detergent by performing and providing analytical methods of detection, process cleaning compatibility, TOC curves, conductivity curves, toxicological reports, and controlled documents to assist in validation.

An extensive validation support package for **Process2Clean 2** that includes last-to-rinse studies and analytical methods of detection (specific and non-specific) are available to complement VAI's CORE laboratory testing. VAI's comprehensive pharmaceutical program enables us to customize an optimal cleaning program to meet your specific needs.

### **Additional Documentation Available Upon Request**

- Sample lot certificates and documentation
- Safety Data Sheet SDS# VEL-014
- Product Validation Report
- In-use Validation Report
- Chemical Compatibility Recommendations Report
- CORE reports



Process2Clean detergents have been specifically formulated for critical process cleaning applications and to effectively remove a multitude of pharmaceutical and biotechnology, lab animal, cosmetic, medical device, and food & beverage product manufacturing residues. All products are formulated with WFI and follow the highest quality manufacturing standards in VAI's GMP manufacturing facility. Call 610-644-8335, email [processcleaning@sterile.com](mailto:processcleaning@sterile.com), or visit our website at [www.sterile.com](http://www.sterile.com) for more information.

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