

PRODUCT BULLETIN

ISSUE/DATE:	February 2018	BULLETIN NUMBER:	18-PB-CP SLEEVE CLEANING
SUBJECT:	Quartz Sleeve Cleaning	PRODUCT LINE:	All Products
TOPIC:	LIME-A-WAY™ FORMULATION CHANGE		

OVERVIEW

Trojan has learned that the formulation of Lime-A-Way™ cleaning solution was modified and now uses chemicals that can be detrimental to parts of your TrojanUV system. Trojan does not manufacture or supply Lime-A-Way™, but has endorsed it as an optional cleaning agent for sites with unique or challenging fouling conditions. Due to the recent formulation changes, we are **no longer recommending the use of Lime-A-Way™ as a cleaning agent in our UV systems.**

Lime-A-Way™ previously acquired can be used until it is depleted, but care must be taken to only apply on the quartz sleeves, avoiding contact with other components of the TrojanUV system.

SLEEVE CLEANING RECOMMENDATIONS

Trojan recommends the use of ActiClean™ Gel for all TrojanUV systems (with and without automatic cleaning systems) for worry-free cleaning. If, for some reason, sleeve cleanliness is not being maintained with the ActiClean™ Cleaning System please contact your Service Representative to investigate possible causes. Other cleaning agents that do not degrade UV system components, and may be effective at your site, include:

- Phosphoric solution with an acid concentration of no more than 10%
- Mild organic acids solutions such as citric acid based cleaners
- Commercially available off-the-shelf household acidic descaling products, such as CLR™

NOTICE

Do not use abrasive materials to clean the lamp sleeves. Abrasive materials will scratch and damage the sleeves, leading to increased fouling and decreased system performance. Refer to the Operations and Maintenance manual for more detailed instructions on cleaning procedures.



PROHIBITED CLEANING SOLUTIONS




The following chemicals are not approved for use with any TrojanUV system as they could damage the system components. **This list is not exhaustive of all possibilities;** if a chemical's compatibility is in question please contact Trojan's Technical Assistance Center (TAC) prior to use.


- Muriatic acid / Hydrochloric acid (HCl)
- Nitric Acid / Aqua Fortis / Spirit of Niter
- Aqua Regia (mix of Nitric and Hydrochloric acids)
- Hydrofluoric acid
- Hydrobromic acid
- Sulfuric acid / Oil of vitriol

- Sulfamic acid
- Strong bases

SAFETY

 WARNING	
	<p>Corrosive Agent Hazard.</p> <ul style="list-style-type: none"> • Avoid inhalation and ingestion • Follow guidelines of the manufacturer for all chemical cleaning solutions. Refer to the Safety Data Sheet (SDS) for accidental exposure to ActiClean™ Gel or other materials. • Follow local regulations for the proper storage, handling, and disposal of all chemicals. • Ensure sleeves have been properly rinsed of cleaning agents prior to re-installing into system.

NOTICE	
 <p style="font-size: small; text-align: center;">UV-C</p>  <p style="font-size: small; text-align: center;">UV-C</p> 	<p>Personal Protective Equipment Required.</p> <ul style="list-style-type: none"> • ALWAYS use appropriate eye and hand protection. • ALWAYS wear UV-C safety glasses when around equipment or a UV-C face shield when inspecting open running equipment. • ALWAYS follow plant safety procedures and protocols. • ALWAYS take necessary precautions when working around, operating, or working on this equipment, if contamination of components is expected within this application due to effluent biological or chemical contaminants.

NOTICE	
	<p>Only competent personnel should undertake operation, repairs, maintenance, or servicing of TrojanUV systems. Consult the shut down and lockout instructions in the Operations and Maintenance manual prior to performing any of the actions described in this bulletin.</p>

ASSISTANCE

If you require technical assistance or have any questions regarding this bulletin, please contact the Technical Assistance Center: tac@trojanuv.com or call 1-866-388-0488. Outside of North America please call 01-519-457-2318.