



# CASE STUDY

## Converting to HydriShield PA 22 HP™ Peracetic Acid (PAA) Reveals Cost Savings

### INTRODUCTION

Raw fruit and vegetables coming direct from the field can often contain organic matter and bacteria that can negatively impact shelf-life or potentially cause illness once consumed. Peracetic Acid (PAA) has been widely accepted by fruit and vegetable processors in concentrations ranging from 5% to 15%. This study investigates the processing benefits of utilizing Hydrite's 22% PAA - HydriShield PA 22 HP.

### CHALLENGE

A large Southwest gourmet vegetable producer was using a common 15% PAA to treat vegetables (Spinach, Arugula, and Kale) at two processing facilities. Each facility had two identical processing lines and presented a unique opportunity to evaluate a common 15% PAA against Hydrite's more potent FDA approved HydriShield PA 22 HP - a 22% PAA liquid solution.

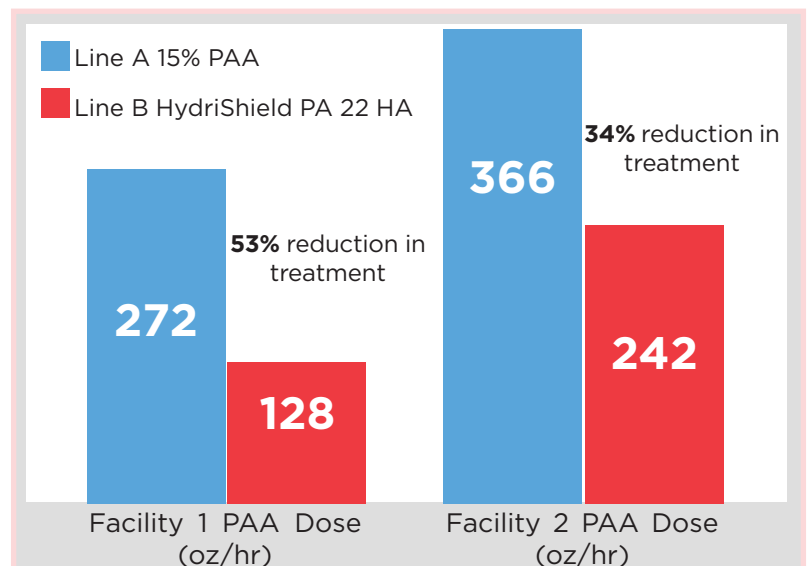
### GOALS

1. To ensure the high standard of safety at the Southwest production facilities were maintained.
2. To compare the cleaning effectiveness of each PAA product: the QA department performed an 8-point swab check on predetermined areas to confirm quality standards were upheld.
3. Evaluate the HydriShield PA 22 HP performance and consumptions on Line A at each facility and compare against the common 15% PAA on Line B at each facility.

### VALUE CREATED

- **Safety** - HydriShield PA 22 HP utilizes existing equipment and piping (drop in replacement).
- **Quality** - Comparable Micro results as that of the common 15% PAA.
- **Increased Production Efficiency** - HydriShield PA 22 HP stays in concentration for long periods without degrading, reducing the frequency of chemical addition during production.
- **Significant Cost Savings** - HydriShield PA 22 HP consumed 34%-53% less PAA to achieve the same concentration level attained by the common 15% PAA.

### SOLUTION & RESULTS



### CONCLUSION

HydriShield PA 22 HP performed extremely well against the common 15% PAA during the side-by-side trials at two production facilities. Improvements in production efficiencies and significant cost savings, justify the change in chemistry and will provide ongoing customer satisfaction. Comparable Micro results will also deliver continued quality and the HydriShield PA 22 HP was able to utilize existing dispensing equipment keeping the product safely controlled.

## BENEFITS OF USING PAA

Effective against broad spectrum of microorganisms



No toxic byproducts



Controls odors



Sustainable and Safe decomposition



Non-foaming



Easy to use



Operates over a wide temperature and pH range



## The HYDRITE Advantage

### Chemical Experts

Our team is experienced and dedicated to providing technical support and services that help maximize efficiency and profitability all while maintaining or enhancing the quality of your end-product. Partner with Hydrite to see how our people make the difference.

### Customized Programs

Every plant is unique and we understand that. We customize a solution for each location and application. Contact us today to learn more about our quality products, services, technology, and solutions.

### Quality Focus

We understand how important it is to protect your brand and maintain the trust your customers place in you. Let us help you by delivering a quality solution at the most efficient cost.

### Customer Service

At Hydrite, we form partnerships with our customers and provide them with the best possible and most efficient operational solution. Contact us today to see how we are different.

### Supportive Approach

We feature a variety of creative solutions designed to lower operating costs, improve efficiency, and help you protect your brand. Join the many satisfied Hydrite customers that have experienced the Hydrite Advantage.

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