

PERACETIC ACID APPLICATION GUIDE

Agriculture
Food & Beverage
Industrial
Oil & Gas
Pulp & Paper
Water Treatment
Fuel Ethanol
Sugar Processing



Providing Creative Solutions

Product Offerings

Products-Food Processing

Hydrite Product	Active Ingredients	Regulatory Clearances	Features
HydriShield™ PA 22 HP	22.0% PAA 15.8% H ₂ O ₂	FCN No. 2274	FDA regulated antimicrobial processing aids, which have approvals in various food intervention applications with high maximum use limits and approved for use as antimicrobial agents in various food contact applications.
HydriShield™ PA 15 HP	15.0% PAA 10.8% H ₂ O ₂	FCN No. 2274	
Hydroxysan 1522	15.0% PAA 22% H ₂ O ₂	FCN No. 2274 EPA Registration Number 2686-24	

Applications	HydriShield™ PA 22 HP	HydriShield™ PA 15 HP	Hydroxysan 1522
	PPM - Max Use Level	PPM - Max Use Level	PPM - Max Use Level
Fruit and Vegetable	600	600	600
Meat	1200	1200	820
Poultry	2000	2000	1005
Processed and Preformed Meat	466	466	250
Processed and Preformed Poultry	230	230	220
Brine, Sauce, And Marinade	46	46	23
Surface Sauces and Marinade	46	46	23
Fish and Seafood	230	230	191
Shell Egg	1200	1200	646



FDA Food Processing Applications



Compared to competitors' products, Hydrite's line of HydriShield™ is effective in food contact applications including meat, poultry, processed and pre-formed meat, processed and pre-formed poultry, fish and seafood, fruits and vegetables, shell egg washing, and sauces or marinades for meat and poultry.



MEAT APPLICATIONS

May be used in process water and ice used to spray, wash, rinse, or dip meat carcasses, parts, trim, and organs; and in chiller water or scald water for meat carcasses, parts, trim, and organs.

POULTRY APPLICATIONS

May be used in process water and ice used to spray, wash, rinse, or dip poultry carcasses, parts, trim, and organs; and in chiller water, immersion baths (e.g. less than 40° F), or scald water for poultry carcasses, parts, trim, and organs.

PROCESSED AND PREFORMED MEAT APPLICATIONS

May be used in water, brine, and ice for washing, rinsing, or cooling of processed or pre-formed meat products.

PROCESSED AND PREFORMED POULTRY APPLICATIONS

May be used in water, brine, and ice for washing, rinsing, or cooling of processed and pre-formed poultry products.

BRINE, SAUCE, AND MARINADE APPLICATIONS

May be used in brines, sauces, and marinades applied either on the surface or injected into processed or unprocessed, cooked or uncooked, whole or cut poultry parts pieces.

SURFACE SAUCES AND MARINADE APPLICATIONS

May be used in surface sauces and in marinades applied on processed and pre-formed meat and poultry products.

FISH AND SEAFOOD APPLICATIONS

May be used in process water and ice used to commercially prepare fish and seafood.

SHELL EGG APPLICATIONS

May be used in process water for washing shell eggs.

FRUIT AND VEGETABLE APPLICATIONS

May be used in process water and ice used for washing or chilling fruits and vegetables.

NUTS AND SEEDS APPLICATIONS

May be used as a spray on seeds for sprouting and on edible seeds and nuts.

Product Offerings

EPA Registered Products

Product	Product #	Active Ingredients	Features
Hydroxysan + No. 494	FP0494	5.9% PAA 27.3% H ₂ O ₂	Food contact surface sanitizer on hard, non-porous surfaces, used as a cleaner, deodorizer, and disinfectant. Used with foaming additive for high performance cleaning.
Hydroxysan 1522	FP0493	15.0% PAA 22.0% H ₂ O ₂	FDA regulated and EPA registered
Hydroxycide 1522	HC4922	15.0% PAA 22.0% H ₂ O ₂	Wastewater, EPA registered, cooling towers, oil and gas
Hydroxycide 527	HC4927	4.9% PAA 26.5% H ₂ O ₂	EPA registered, cooling towers

Applications	Hydroxysan + 494 FP0494	Hydroxysan 1522 FP0493	Hydroxycide 1522 HC4922	Hydroxycide 527 HC4927
OMRI Listed	✓	✓	✓	✓
FDA Clearance		✓		
EPA Registered	✓	✓	✓	✓
Drip irrigation systems slime and algae cleaner	✓	✓	✓	✓
Fruit, vegetable, and other raw agricultural commodities water treatment and processing waters	✓	✓	✓	✓
Control of odor, sulfides, slime and algae in water systems	✓	✓	✓	✓
Harvest equipment cleaner			✓	✓
Harvest equipment sanitizer	✓	✓		
Effective for the control/suppression of plant pathogens and soil borne plant diseases, root disease and stem rot disease	✓		✓	✓
Control diseases caused by bacteria* and fungi*			✓	✓
Disease control on fruits, vegetables, and other food or other raw agricultural commodity crops	✓		✓	✓
Fungicide*, bactericide* and yeast* treatment for control or suppression on crops			✓	✓
Prevent/control the growth of non-public health organisms that cause spoilage and/or decay of potatoes			✓	✓
Suppress/control algae, odor causing and slime-forming bacteria and sulfides in stock tanks, stock watering ponds, tanks and troughs, and livestock water			✓	✓
Manufacturing of paper and paperboard intended for food-contact and non-food contact	✓	✓	✓	✓
Used in the control of bacteria* and fungi* in the manufacture and storage of dispersed pigments used in paint and paper production	✓	✓	✓	✓

*Refers to nonpublic health pathogens

EPA Applications

Applications	Hydroxysan + 494 FP0494	Hydroxysan 1522 FP0493	Hydroxycide 1522 HC4922	Hydroxycide 527 HC4927
Treatment for non-potable water systems (wash tanks, dip tanks, drench tanks, evaporators, humidification systems and/or storage tanks)			✓	✓
Control of slime forming bacteria to cooling water systems (cooling towers evaporative condensers)	✓	✓	✓	✓
Sanitizer for food contact surfaces	✓	✓	✓	
General disinfectant cleaner on hard, non-porous surfaces	✓	✓	✓	
Used in treatment of ultra-filtration (UF) and reverse osmosis (RO) membranes and their associated piping systems	✓	✓	✓	✓
Poultry, swine, livestock watering operating systems	✓	✓	✓	
Beverage dispensing and sanitary filling equipment sanitizer	✓	✓	✓	
Oil, gas and secondary oil recovery systems, drilling muds, fracturing fluids, and packing fluid, injection water and floodwater		✓	✓	
Treatment of sewage and wastewater effluents in treatment plants	✓	✓	✓	
Breweries, canneries, cheese factories hard, non-porous surfaces	✓	✓		
Federally inspected meat and poultry plants hard, non-porous surfaces	✓	✓		
Cleans, disinfects and deodorizes hard, non-porous surfaces with no rinsing required	✓	✓		
Final sanitizing rinse for pre-cleaned returnable and non-returnable bottles or containers	✓	✓	✓	
Sanitization of shell eggs	✓	✓		
Dairy clean-in-place systems sanitizer	✓	✓		
Alkaline Detergent Cleaning Adjunct to Clean Food Processing Equipment	✓	✓	✓	✓
Animal Premises Disinfectant	✓	✓	✓	
Foam Cleaning of Food & Non-Food Contact Surfaces	✓	✓	✓	✓
Fruit & Vegetable Water Treatment	✓	✓	✓	✓
Meat & Poultry & Vegetable Conveyor Sanitization	✓	✓	✓	
Non-Food Contact Hard Surface Disinfectant	✓	✓	✓	
RO, NF & UF Sanitizer	✓			
Agricultural Water & Irrigation Systems			✓	✓
For Non-Public Health Microbial Control in Sewage & Wastewater Effluent Treatment Plants		✓	✓	
Oil Field, Gas Productions & Transmission Pipeline & Systems	✓	✓		

Industrial Applications

Specialty PAA Applications

Hydrite Product	Industries	Recommended Use
Hydri-Maize™ 2759	Ethanol	To control odor in rendering processes. GRAS for use in descaling agent in CIP tanks or as an antimicrobial agent in the fermenter in ethanol processing; as an antimicrobial agent in pressed cake in rendering. Used as an antimicrobial agent in the diffuser for sugar beet processing and pressed cake during meat rendering. Antibiotic Free.
Hydritreat™ SB 1523	Sugar Processing	
Hydritreat™ SB 2216	Protein Processing	
	Animal Rendering	

Applications	Hydri-Maize™ 2759	Hydritreat SB 1523	Hydritreat™ SB 2216
Oil & Gas Drilling Muds, Fracturing Fluids, Well Squeezed Fluids		✓	✓
Oil & Gas Flooding, Injection, & Produced Water for Water Flooding Operations		✓	✓
Oil & Gas Oil Field, Gas Productions & Transmission Pipeline & Systems		✓	✓
Oil, Gas, & Secondary Oil Recovery Systems, Drilling Muds & Packing Fluid		✓	✓
Oil & Gas Pipeline & Tank Maintenance		✓	✓
(FCN2009) for use in various nuts and seeds applications	✓		
GRAS for use in ethanol and sugar processing	✓	✓	✓
Made in the USA	✓	✓	✓
Good Manufacturing Practices (cGMP)	✓	✓	✓
Flume water oxidizing agent	✓	✓	✓
CIP tank and wet scrubber descaling agent	✓	✓	✓
Sugar process odor control and vigorous H2S oxidizer	✓	✓	✓
Animal rendering odor control and vigorous H2S oxidizer	✓		✓
Wastewater treatment process odor control and vigorous H2S oxidizer	✓	✓	✓
Ethanol and sugar processes, effective against both gram negative and positive bacteria	✓	✓	✓
Powerful CIP additive for protein and oxalated removal	✓	✓	

Equipment



HYDRITE EQUIPMENT

Hydrite's bulk peracetic acid (PAA) delivery and dosing equipment makes taking advantage of this powerful oxidizer easier and more economical, no matter the industry. Plus, our portable metering pumps and transfer pumps are simple to integrate for flexible, continuous, and slug dose treatments facility-wide. Discover how your company can benefit.

Hydrite's equipment line is engineered to:

- Create a safer workplace
- Increased mechanical reliability utilizing compatible material & equipment
- Integrated into DCS (distributed control system) logic or standalone
- Tailored to your plant to increase effectiveness
- Provide the best antimicrobial, sanitization & disinfection, and odor control treatments for your facility
- Bulk equipment and transportation

Providing Creative Solutions

BENEFITS OF USING PAA

Effective against
broad spectrum
of microorganisms



No toxic
byproducts



Controls
odors



Sustainable
and Safe
decomposition



Easy to use



Operates over a
wide temperature
and pH range



EPA Safer Chemical
Ingredient List



PAA breaks down safely to environmentally friendly residues (acetic acid and hydrogen peroxide) with no toxic byproducts. Sustainable and safe decomposition.

Peracetic acid combats many forms of bacteria due to its high oxidizing potential. It is highly effective against a broad range of microorganisms making it the ideal antimicrobial agent for applications across various industries.

- Water Treatment
- Agriculture
- Fruit and Vegetable
- Cooling Towers
- Food Processing
- Pulp & Paper
- Dairy
- Oil & Gas
- Food & Beverage
- Sugar Beet
- Aseptic Packaging
- Craft Brew
- Animal Premise
- Rendering
- Meat & Poultry
- Seeds & Nuts

Contact us today!

For more information:

HYDRITE

17385 Golf Parkway Brookfield, WI 53045

www.hydrite.com P: 262-792-1450 E: marketing@hydrite.com



Product safety information, storage, and handling precautions are contained on the product label and Safety Data Sheet (SDS). See product label and Safety Data Sheet (SDS) to determine the proper storage, handling procedures, and materials of construction when utilizing Hydrite's peracetic acid (PAA) based products.

READ AND UNDERSTAND LABEL AND SAFETY DATA SHEET BEFORE PRODUCT USE.