



Instructions

- All participants are muted.
- There will be time for questions and discussion at the end of the meeting.
- Feel free to use the chat box to ask questions as well!
- This session will be recorded and the presentation will be shared via the listserv and on our website after the call.





Agenda

- Sanitizer tool updates
- Sanitizer lessons learned
- Information related to Revised Subpart E: Agricultural Water
- PSA staffing updates
- Next PSA Educators' Call



Produce Safety Alliance EPA-Labeled Sanitizers for Produce Database updated: 5/8/24

Tool Use Tip

- · Hover over column titles for additional details
- . The search bar can be used to search the tool for any search term (e.g. product name, labeled use, manufacturer)
- . The 'compare' function can be used to select and compare specific sanitizers.
- All columns are sortable. Click on the column header (e.g. Labeled for Use on Non-Porous Food Contact Surfaces?) to sor

A few additional notes

More information on pesticide labeling can be found in the "Introduction to Selecting an EPA-labeled Sanitizer" factshed

Total resul	ts found: 105							
peroxide								
Compare	Reset							
							EPA Master Lab	el Details
ı				EPA Mas	ter Label	Preharvest Labeled Uses	F	ostharvest Labeled Us
Compare	Product Name	Name on EPA Master Label	Active Ingredient (% Strength)	EPA Registration Number	Labeled Use Info Based on Version Date	Labeled For Use in Irrigation Water Systems	Labeled For Use on Non-Porous Food Contact Surfaces	Labeled For Use on Postharvest Water Distribution Systems
	BioSide HS 15%	BioSide HS 15%	PAA (15.0%); Hydrogen Peroxide (22.0%)	63838-2	2/21/20	Yes, see page 15	Yes, see page 5	Yes, see page 10
	Peragreen 15%	Bio Side HS 15%	PAA (15.0%); Hydrogen Peroxide (22.0%)	63838-2	2/21/20	Yes, see page 15	Yes, see page 5	Yes, see page 10





What is a Sanitizer?

- A substance that reduces or eliminates bacteria from surfaces and water
- Part of a broader group of substances called antimicrobial pesticides
- Tend to focus on sanitizers used for several purposes:
 - Pre-harvest uses
 - Irrigation water systems
 - Food contact surfaces
 - Postharvest uses
 - Fruit and vegetable washing
 - Food contact surfaces







Choosing an Antimicrobial Product, Including Sanitizers

- Chlorine sanitizers are commonly used
 - Affordable and available
 - Corrosive, highly reactive
- Many non-chlorine chemical options
 - Ozone, peroxyacetic acid, hydrogen peroxide, etc.
- Organic formulations are available
 - Tsunami, Spectrum, Sanidate, VigorOx 15 F&V, etc.
 - Check with organic certifier
- Must be labeled for use





Module 5.2



Selecting an Appropriate Sanitizer: EPA Labels

- All pesticides (including sanitizers) are regulated by the EPA through the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)
 - Ensures that using a product correctly will limit the product's risk to humans and the environment
- Pesticides (including sanitizers)
 must be registered and contain an
 EPA number

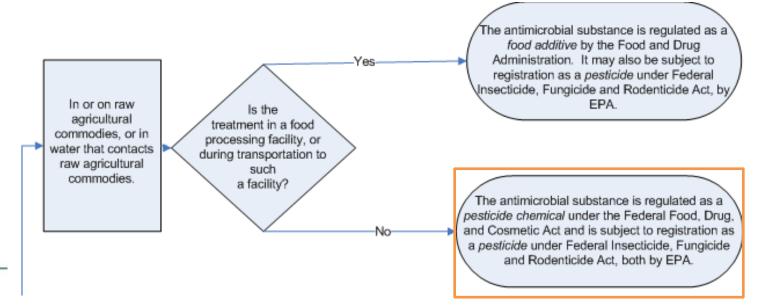






Why use EPA-labeled sanitizers?

- FSMA PSR requires that
 - "Any method you use to treat agricultural water (such as with physical treatment...; EPA-registered antimicrobial pesticide product; or other suitable method) must be effective to make the water safe and of adequate sanitary quality for its intended use" (§ 112.43)
- FDA maintains a <u>decision tree</u> on whether antimicrobials are regulated by EPA or FDA





Why use EPA-labeled sanitizers?

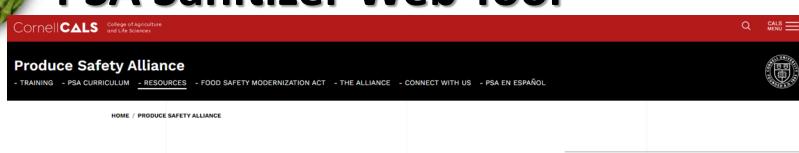
FSMA PSR requires that

"Any method you use to treat agricultural water (such as with physical treatment...; EPA-registered antimicrobial pesticide product; or other suitable method) must be effective to make the water safe and of adequate sanitary quality for its intended use" (§ 112.43)

- FDA maintains a decision tree on whether antimicrobials are regulated by EPA or FDA
- Using an EPA-labeled sanitizer is highly recommended
 - Inspectors are trained to look for EPA-labeled sanitizers
 - Instructions and efficacy data are based on agricultural use scenarios



PSA Sanitizer Web Tool



Resources

General Resources

Resources

Sanitation

- Introduction to Selecting an EPA-Labeled Sanitizer (URLs updated 10/13/22)
- Produce Safety Alliance EPA-Labeled Sanitizers for Produce Web Tool
 - Video Tutorial: PSA EPA-Labeled Sanitizers for Produce Web Tool
- United Fresh—Guidance on Environmental Monitoring and Control of Listeria for the Fresh Produce Industry
- Cleaning vs. Sanitizing (URLs updated 10/13/22)





PSA EPA-Labeled Sanitizers for Produce Web Tool

- Tool was designed as a resource to help produce growers (and those who support them) review and select sanitizers based on their EPA label
 - Originally released in 2017 as an Excel file; limitations on usability
- Adapted the resource into a web tool
- Funded in part by the Local Food Safety Collaborative (LFSC)
- https://resources.producesafetyalliance.cornell.edu/sanitizer/

To	otal results found: 105														
T	pe to search (e.g., product name, active ingredient)														
C	ompare	mpare Reset													
								EPA Master Lak	el Details						
					EPA Ma	ster Label	Preharvest Labeled Uses		Postharvest Labeled Uses		Efficacy Statement	Product Information			
c	ompare	Product Name	Name on EPA Master Label	Active Ingredient (% Strength)	EPA Registration Number	Labeled Use Info Based on Version Date	Labeled For Use in Irrigation Water Systems	Labeled For Use on Non-Porous Food Contact Surfaces	Labeled For Use on Postharvest Water Distribution Systems	Labeled for Use in Fruit and Vegetable Wash Water	Labeled to Control Human Pathogens	Organic Materials Review Institute (OMRI) Listing	Quantity Purchasable per EPA Label	Manufacturer/ Distributor	<u>Notes</u>
		Agchlor 310	Agchlor 310	Sodium hypochlorite (12.5%)	2792-62	5/23/12	No	Yes, see page 7	No	Yes, see page 7	No	Not listed	Gallons: 55	Decco US Post- harvest, Inc.	None
		Alpet D2 Surface Sanitizer	Alpet D2	Isopropyl Alcohol (58.6%); Quaternary Ammonium (0.0075%, see label)	73232-1	4/21/20	No	Yes, see page 6	No	No	For Food Contact Surfaces	Not listed	Information not available	Best Sanitizers, Inc.	None
		Alpet D2 Quat-Free Surface Sanitizer	Alpet D2 Quat-Free Surface Sanitizer	Ethanol (62.5%); Isopropanol (7.5%)	73232-4	8/16/21	No	Yes, see page 5	No	No		Allowed with restrictions	Information not available	Best Sanitizers, Inc.	None
		Anthium Dioxcide	Anthium Dioxcide	Chlorine dioxide (5.0%)	9150-2	4/6/20	Yes, see page 22	Yes, see page 23	Yes, see page 12	Yes, see page 9	No	Not listed	Information not available	International Dioxcide, Inc.	None
		-	Antimicrobial Fruit and Vegetable Treatment	Lactic Acid (17.3%); Quaternary Ammonium (1.2%, see label)	1677-234	10/31/17	No	No	No	Yes, see page 6	For Washing Fruits and Vegetables		Ounces: 4, 64, 96 Gallons: 1, 2.5, 4	Ecolab, Inc.	None



Total results found: 105

Alpet D2 Surface Sanitizer

PSA EPA-Labeled Sanitizers for Produce Web Tool

- Updates include:
 - Addition of product labels, when available
 - More accurate in identifying labeled uses for each sanitizer product
 - Hyperlink to manufacturer/distributor contact information
 - Search bar

Alpet D2

Compare function

Isopropyl Alcohol (58.6%);

Quaternary Ammonium

(0.0075%, see label)

Type to search (e.g., product name, active ingredient) Compare | Reset EPA Master Label Details Preharvest Labeled EPA Master Label Postharvest Labeled Uses Efficacy Statement Uses Labeled Use Info Labeled For Use in Labeled For Use on Labeled For Use on Labeled for Use in Name on EPA Master Labeled to Control Compare **Product Name** Active Ingredient (% Strength) Registration **Based on Version** Irrigation Water Non-Porous Food Postharvest Water Fruit and Vegetable Human Pathogens Contact Surfaces Wash Water Number Systems Distribution Systems 5/23/12 Agchlor 310 Agchlor 310 Sodium hypochlorite (12.5%) 2792-62 No Yes, see page 7 Yes, see page 7 No

Yes, see page 6

4/21/20

73232-1

For Food Contact



Walkthrough of the Tool

- Tool is divided into three sections, all viewable from one screen
- First section includes
 - Product name
 - Name on EPA Master Label
 - Active Ingredient

 (including the % strength for each)
- Both product labels and EPA labels are clickable hyperlinks (when available)

Total results found: 105								
Type to se	Type to search (e.g., product name, active ingredient)							
Compare	Compare Reset							
Compare Product Name		Name on EPA Master Label	Active Ingredient (% Strength)					
	Agchlor 310	Agchlor 310	Sodium hypochlorite (12.5%)					
Alpet D2 Surface Sanitizer		Alpet D2	Isopropyl Alcohol (58.6%); Quaternary Ammonium (0.0075%, see label)					
	Alpet D2 Quat-Free Surface Sanitizer	Alpet D2 Quat-Free Surface Sanitizer	Ethanol (62.5%); Isopropanol (7.5%)					





EPA Master Label Details

- Content of the tool centers around EPA Master label details
 - Individual product labels could not always be found
 - Product labels may also differ by state
- Label details are broken into four sections:
 - Pre-harvest (e.g., irrigation water systems)
 - Postharvest (food contact surfaces, postharvest water distribution systems, fruit and vegetable wash water)

EPA Master Label Details								
EPA Master Label Preharvest Labeled Use			Po	ostharvest Labeled Us	es	Efficacy Statement		
EPA Registration Number	Labeled Use Info Based on Version Date	Labeled For Use in Irrigation Water Systems Labeled For Use on Non-Porou Food Contact Surfaces		Labeled For Use on Postharvest Water Distribution Systems	Labeled for Use in Fruit and Vegetable Wash Water	Labeled to Control Human Pathogens		
2792-62	5/23/12	No	Yes, see page 7	No	Yes, see page 7	No		
73232-1	4/21/20	No	Yes, see page 6	No	No	For Food Contact Surfaces		



Additional Product Information

- Organic Materials Review Institute (OMRI) column identifies whether produce is listed for organic use
- Amount purchasable

Manufacturer/Distributor contact information is hyperlinked,

when available

Intent is to make accessing information easy for the user

Product Information							
Organic Materials Review Institute (OMRI) Listing	Amount Purchasable per EPA Label	Manufacturer/ Distributor	<u>Notes</u>				
Not listed	Gallons: 55	Decco US Post- harvest, Inc.	None				
Not listed Information not available		Best Sanitizers, Inc.	None				
Allowed with Information not restrictions available		Best Sanitizers, Inc.	None				





A note about EPA labels and Product Labels

EPA master labels list all approved uses for a given product

AgChlor 310 EPA master label cover sheet; 17 pages total



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY

February 2, 2024

Carla J. Figueroa SciReg, Inc. Agent for AGLOR 310

Electronic Transmittal: [cfigueroa@SciReg.com]

Subject:

Label Amendment – Label Amendment to Comply with current PR Notice and Policies, Revise Application Rates, Add Crops, and Revise Container Handling

Text

Product Name: AGCLOR 310 EPA Registration Number: 2792-62 Received Date: 06/12/2020 Action Case Number: 00218587

Dear Carla J. Figueroa:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. Pursuant to 40 CFR 156.10(a)(6) you must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. See FIFRA section 2(p)(2). If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process, FIFRA section 12(a)(1)(B). Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the





A note about EPA labels and **Product Labels**

- EPA master labels list all approved uses for a given product
- However, products may be sold under sub-labels, or split-labels
 - Contain labeled uses and directions for only a portion of the approved uses on the FPA master label





HAZARDS TO HUMANS AND DOMESTIC



Product Label

Call these sub-labels "product labels" in the tool





What we learned about EPA Labels vs. Product Labels

- One of the challenges is that people say "the label is the law"
 - Our earlier interpretation was that the EPA Master Label is required
- EPA's <u>Introduction to Pesticide Labels website</u> defines a label as: "the written, printed, or graphic matter on, or attached to, the pesticide or device or any of its containers or wrappers"
 - New understanding is that the product label (and any other attached literature) is the governing document and legally enforceable
- Benefit to the EPA label is that it is available and consistent on a federal level
 - Product labels also differ by state; some farms operate in more than one state





Impact on the PSA Sanitizer Tool

- EPA master labels and product labels were a discussion point in our focus group session
- Product labels were added to the web tool, when available, to increase transparency
 - Tool content still focuses on EPA Master Label
- If a product label was available, labeled uses between the product label and EPA master label were compared
 - Added statement to the notes section if the labeled uses did not match
 Preduce Safety

Product Information							
Organic Materials Review Institute (OMRI) Listing Quantity Purchasable per EPA Label		Manufacturer/ Distributor	Notes				
			Allowed uses on Product Label differ from uses on EPA Master Label				
Allowed with restrictions	Information not available	Enviro Tech Chemical Services	EPA Master Label identifies State-level restrictions EPA Master Label allows for foliar sprays in addition to irrigation water				



Label Walk-Through: Bioside HS 15%

- Accessing the EPA Master Label
- Reviewing labeled uses and efficacy statements
- Accessing the product label
- Comparison of labeled uses between the EPA Master Label and product label





1 Todace Safety Amarice Et A-Labeled Samuzers for 1 To	<i>,</i> u
Database undated: 5/8/24	

Compare

Name on EPA

Master Label

BioSide HS 15%

BioSide HS 15%

BioSide HS 15%

BioSide HS 15%

EPA Master Label Details

Labeled For Use

on Non-Porous

Food Contact

Surfaces

Yes, see page 5

Yes, see page 5

Yes, see page 5

Yes, see page 5

Postharvest Labeled Uses

Labeled For Use on

Postharvest Water

Distribution

Systems

Yes, see page 10

Yes, see page 10

Yes, see page 10

Yes, see page 10

Labeled for Use

in Fruit and

Vegetable Wash

Water

Yes, see page 9

Yes, see page 9

Yes, see page 9

Yes, see page 9

Preharvest

Labeled Uses

Labeled For Use

in Irrigation

Water Systems

Yes, see page 15

Yes, see page 15

Yes, see page 15

Yes, see page 15

EPA Master Label

Labeled Use

Info Based on

Version Date

2/21/20

2/21/20

2/21/20

2/21/20

EPA

Registration

Number

63838-2

63838-2

63838-2

63838-2

Active Ingredient

(% Strength)

PAA (15.0%); Hydrogen

PAA (15.0%); Hydrogen

PAA (15.0%); Hydrogen

PAA (15.0%); Hydrogen

Peroxide (22.0%)

Peroxide (22.0%)

Peroxide (22.0%)

Peroxide (22.0%)

Efficacy

Statement

Labeled to Control

Human Pathogens

For Food Contact

For Food Contact

For Food Contact

For Food Contact

Surfaces

Surfaces

Surfaces

Surfaces

Produce Safety Alliance EPA-Labeled Sanitizers for Prod	auc
Database undated: 5/8/24	

Product Name

BioSide HS 15%

Peragreen 15%

Peroxy Punch 15

Shield-Brite PAA 15.0

				-	_	
Produce S	afety Al	iance El	PA-Labe	led Sa	nitizers fo	r Produce

Produce Safety Alliance EPA-Labeled Sanitizers for Produ	ıce
Database undated: 5/8/24	

Produce Salety Alliance EPA-Labeled	Samuzers for	Produce
Database undated: 5/8/24		

Produce Safety Alliance EPA-Labeled Sar	nitizers for Produce
Database updated: 5/8/24	

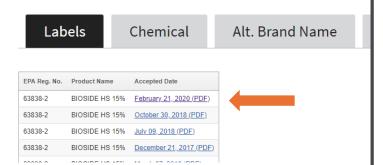
Produce Safety Alliance EPA-Labeled Sanitizers for Produce	
Database undated: 5/8/24	

Produce Safety Alliance EPA-Labeled Sanitizers for Produce
Database undated: 5/8/24

Labels for BIOSIDE

You will need Adobe Reader to view some of the files on

Provided below is the information for the Product/Regis







UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY

February 21, 2020

Michael Harvey Enviro Tech Chemical Services, Inc. 500 Winmoore Way Modesto, CA 95358

Subject: Label Amendment – Adding Uses

Product Name: Bioside HS 15% EPA Registration Number: 63838-2 Application Date: 11/02/2018 Decision Number: 545795

Dear Mr. Harvey:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Terria Northern by phone at 703-347-0265, or via email at norther.terria@epa.gov.

Bioside HS 15%: Labeled Uses and Efficacy Statements



TREATMENT OF FRUIT AND VEGETABLE PROCESS WATER SYSTEMS

This product can be used in water or ice that contacts raw or fresh, post-harvest or further processed fruits and vegetables for the control of spoilage and decay causing bacteria and fungi in commercial operations and packinghouses.

biological control. Initial recommended dosing levels of 5 to 100 ppm as active peroxyacetic acid are suggested. A dosage of 3.75 fl. oz. per 1000 gallons of water yields approximately 5 ppm of peroxyacetic acid.

Batch, Continuous or Spray System Processes: Fill vessel containing fulls and vegetables with known amount of water. Ensure that water is circuidating in vessel if using the submersion method. Add this product to no more than 500 ppm residual peroxyacetic acid to the use solution in accordance with Food Contact Notification #1738, effective March 28, 2017. This can be accomplished by initially adding 3.8 in c.u. per 10 gallons of water. The recommended concentration is between 30-300 ppm as peroxyacetic acid (0.23-2.3 fl. cz. per 10 gallons of water). The final concentration encessary to accomplish the intended task will vary from plant-to-plant. The fruits and vegetables can be continuously sprayed or submerged (olipped) in the resulting solution. Periodic or continuous additions of this product to maintain the required concentration may be added as necessary. It is short recommended to apply this washer manifold, dip tank, or sorting processes. Contact time of 60 seconds is recommended to insure efficacy. A probable water frees is not require efficacy. A probable water frees is not require efficacy.

Fogging: (Not for Use in California): For raw agricultural commodities, commercially-applied fogging methods may be used provided the dilution rates of the resultant solution does not exceed those prescribed in this section (3.8 ft. oz. per 10 gal of water). A potable water rinse is not required. Conventional convosion-resistant fogging devices are recommended. Vacate the area of all personnel prior to, during and after fogging until the total peroxide concentration is below 1.0 pom or there is no strong odor present, characteristic of acetic acid.

TREATMENT OF HARVEST POTATOES

Not for Use in California

To control, treat or suppress the bacterial and fungal diseases: silver scurf, late blight, pink rot, early blight, bacterial soft rot. This product can be applied by dip or spray on harvested potatoes going into storage.

Treatment of F&V Process Water System

"This product can be used in water or ice that contacts raw or fresh, post-harvest or further processed fruits and vegetables for the control of spoilage and decay-causing bacteria and fungi in commercial operations and packinghouses."



This peroxyacetic acid sanitizer is recommended for use on precleaned surfaces such as equipment, pipelines, tanks, vats, filters, evaporators, pasteurizers, and aseptic equipment in dairies, breweries, wineries, beverage and food processing/packing plants, and egg processing/packing equipment surfaces. This product is effective as a sanitizer when solution is prepared in water of up to 400 ppm hardness as CaCO₃. This product has demonstrated greater than 99.999% reduction of Staphylococcus aureus and Escherichia coli in the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants study.

Sanitizing Food Contact Surfaces: Sanitize with a concentration of 0.7-3.8 fl. oz. of this product diluted in 10 gallons of water (93-500 ppm active peroxyacetic acid and 136-733 ppm active hydrogen peroxide). Use immersion, spray or circulation techniques as appropriate to the equipment. All surfaces must be exposed to sanitizing solution for a period of at least 60 seconds or more if specified by a governing code. Drain thoroughly and allow to air dry. Do not rinse.

Sanitization of Conveyors and Equipment for Meat, Poultry, Seafood, Dairy, Fruit, Nuts and Vegetables: This product is effective against the gram positive organism Staphylococcus aureus and gram negative organism Escherichia coli. For use in the static or continuous sanitizing, washing or rinsing of conveyors, slicers, saws, and equipment, apply a solution of this product using a recommended 0.7-3.8 fl oz. per 10 gallons of water (93-500 ppm active peroxyacetic acid and 136-733 ppm active hydrogen peroxide). Apply sanitizer solution to the return portion of the conveyor or equipment using spray or similar means of wetting surfaces, so as to prevent puddling. Allow sanitizer to thoroughly wet surface for a minimum 60 seconds contact time. No rinse is needed.

Final Bottle or Container Rinse: This product may be used as a final sanitizer rinse for pre-cleaned returnable and non-returnable bottles or containers at 93-500 ppm active peroxyacetic acid and 136-733 ppm active hydrogen peroxide (0.7-3.8 fl. oz. of this product diluted in 10 gallons of water). The container must be drained as much as is practical prior to filling operations.



Sanitization

"...recommended for use on precleaned surfaces..."

"This product has demonstrated a greater than 99.999% reduction of Staphylococcus aureus and Escherichia coli..."

[Bracketed information is optional text.]

This product may be used to treat water used in primary or secondary oil and gas recovery systems to control anaerobic sulfide-forming bacteria and aerobic slime-forming bacteria. This product may be used in fresh or recycled water, secondary recovery systems, muds or fluids. This product controls non-public health biofilm and slime deposits on products associated with oilfield and gasfield systems which are susceptible to contamination. It also controls slime deposits downhole in water-bottoms. Add sufficient amount of this product to achieve satisfactory biological control. Initial recommended dosing levels of 5 to 100 ppm as active peroxyacetic acid are suggested. A dosage of 3.75 fl. oz. per 1000 gallons of water yields approximately 5 ppm of peroxyacetic acid.

TREATMENT OF FRUIT AND VEGETABLE PROCESS WATER SYSTEMS

This product can be used in water or ice that contacts raw or fresh, post-harvest or further processed fruits and vegetables for the control of spoilage and decay causing bacteria and fungi in commercial operations and packinghouses.

Batch, Continuous or Spray System Processes: Fill vessel containing fruits and vegetables with known amount of water. Ensure that water is circulating in vessel if using the submersion method. Add this product to no more than 500 ppm residual peroxyacetic acid to the use solution in accordance with Food Contact Notification #1738, effective March 28, 2017. This can be accomplished by initially adding 3.8 fl. ox. per 10 gallons of water. The recommended concentration is between 30-300 ppm as peroxyacetic acid (0.23-2.3 fl. oz. per 10 gallons of water). The final concentration necessary to accomplish the intended task will vary from plant-to-plant. The fruits and vegetables can be continuously sprayed or submerged (dipped) in the resulting solution. Periodic or continuous additions of this product to maintain the required concentration may be added as necessary. It is also recommended to apply this product during the washing, chilling, or physical cleaning processes, including the roller-spreader, washer or brush washer manifold, dip tank, or sorting processes. Contact time of 60 seconds is recommended to insure efficacy. A potable water rinse is not required.

Fogging: (Not for Use in California): For raw agricultural commodities, commercially-applied fogging methods may be used provided the dilution rates of the resultant solution does not exceed those prescribed in this section (3.8 fl. oz. per 10 gal of water). A potable water rinse is not required. Conventional corrosion-resistant fogging devices are recommended. Vacate the area of all personnel prior to, during and after fogging until the total peroxide concentration is below 1.0 ppm, or there is no strong odor present, characteristic of acetic acid.

TREATMENT OF HARVEST POTATOES

Not for Use in California

To control, treat or suppress the bacterial and fungal diseases: silver scurf, late blight, pink rot, early blight, bacterial soft rot. This product can be applied by dip or spray on harvested potatoes going into storage. Use 0.8-1.6 fl. oz. of this product per five gallons of clean water. Do not reuse already mixed solution; make fresh daily. If applying diluted solution via spray, spray over potatoes to achieve full and even coverage. Ensure full contact on all surfaces for 45 seconds.

POULTRY, SWINE, LIVESTOCK WATERING OPERATING SYSTEMS

After watering lines have been cleaned, use this product at 0.3-42 fl. oz. per 100 gallons of water (4-559 ppm as peroxyacetic acid) to control algae and bacteria in drinking water and to control mineral build up in watering lines. Stop the use of this product twenty-four (24) hours prior to vaccination via the water line.

ANIMAL PREMISES

This product is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, and livestock quarters. When used as directed, this product is specifically designed to disinfect, deodorize and clean inanimate, hard, surfaces such as walls, floors, sink tops, further, operating tables, kennel runs, cages and feeding equipment. In addition, this product will deodorize those areas which are generally difficult to keep smelling fresh, such as garbage storage areas, empty garbage bins and cans, and any other areas which are prone to odors caused by microorganisms.

Disinfection of Poultry Premises, Trucks, Coops and Crates: For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use. Remove all poultry and feeds from premises, trucks, coops and

Bioside HS 15%: Usage Instructions

Treatment of F&V Process Water System

This portion of the label lists specific instructions for use, including:

- Dilution instructions (30-300ppm PAA)
- Contact time (60 seconds is recommended to ensure efficacy)
- "...can be continuously sprayed or submerged (dipped) in the resulting solution
- A potable rinse is not required



	roduce Salety Alliance LFA-Labeled Salitizers for Frodit
- 1	atabase undated: 5/8/24

Compare

Produce Safety Alliance EPA-Labeled Sanitizers for Produc	е
Database undated: 5/8/24	

Product Name

BioSide HS 15%

Peragreen 15%

Peroxy Punch 15

Shield-Brite PAA 15.0

Produce Safety Alliance EPA-Labeled Sanitizers for Produc
Database undated: 5/8/24

1 Todade dately / illiande El / Labelea damazers for 1 Todad	-
Database undated: 5/8/24	

Name on EPA

Master Label

BioSide HS 15%

BioSide HS 15%

BioSide HS 15%

BioSide HS 15%

EPA Master Label Details

Labeled For Use

on Non-Porous

Food Contact

Surfaces

Yes, see page 5

Yes, see page 5

Yes, see page 5

Yes, see page 5

Postharvest Labeled Uses

Labeled For Use on

Postharvest Water

Distribution

Systems

Yes, see page 10

Yes, see page 10

Yes, see page 10

Yes, see page 10

Labeled for Use

in Fruit and

Vegetable Wash

Water

Yes, see page 9

Yes, see page 9

Yes, see page 9

Yes, see page 9

Preharvest

Labeled Uses

Labeled For Use

in Irrigation

Water Systems

Yes, see page 15

Yes, see page 15

Yes, see page 15

Yes, see page 15

EPA Master Label

Labeled Use

Info Based on

Version Date

2/21/20

2/21/20

2/21/20

2/21/20

EPA

Registration

Number

63838-2

63838-2

63838-2

63838-2

Active Ingredient

(% Strength)

PAA (15.0%); Hydrogen

PAA (15.0%); Hydrogen

PAA (15.0%); Hydrogen

PAA (15.0%); Hydrogen

Peroxide (22.0%)

Peroxide (22.0%)

Peroxide (22.0%)

Peroxide (22.0%)

Efficacy

Statement

Labeled to Control

Human Pathogens

For Food Contact

For Food Contact

For Food Contact

For Food Contact

Surfaces

Surfaces

Surfaces

Surfaces

Produce Safety Alliance EPA-Labeled Sanitizers for Produce
Database undated: 5/8/24

Produce Safety Alliance EPA-Labeled Sanitizers for Produce
Database undated: 5/8/24

Produce Safety Alliance EPA-Labeled Sanitizers for Produce
D-4-1d-4d- 5/0/04

Produce Safety Alliance EPA-Labeled Sanitizers for Pro	duce
Database undated: 5/8/24	



Navigating the Product Label

BioSide HS™15%

(ANTIMICROBIAL SOLUTION)

iocide developed for Equipment Sanitizing, Disinfection, Aseptic Packaging, and Bacteria, Fungi, Slime and Odor Control in: Pulp and Paper Mill Systems. Fruit and Vegetable Process Water Systems. Oil and Gasfield water systems, and Bacterial ACTIVE INGREDIENT:

INERT INGREDIENTS:

EPA Registration No: 63838-2 EPA Est. No. 63838-CA-01: 63838-AR-001
Before Using This Product, Please Read This Entire Label Carefully.

KEEP OUT OF REACH OF CHILDREN DANGER-PELIGRO

(If you do not understand this label, find someone to explain it to you in detail.)

Note to Reviewer: In accordance with 40 CFR 156.68(d), all first aid statements, as prescribed, will appear on the front

FIRST AID	
IF IN EYES	Hold eye open and rinse slowly and gontly with water for 15-20 minutes. Remove contact insexs, present, after the first Sminutes, then continue rinsing eye. Call a polion control conter or doctor the retarent advice.
IF ON SKIN OR CLOTHING	Take off contaminated clothing. Rince skin immediately with picinty of water for 15-20 minutes. Call a piston control center or declar for treatment advice.
IF INHALED	More porson to fresh air. Foreign is not benefin, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mucit, if possible. Call a possen control center or destor for heatment advice.
IF SWALLOWED	Call a postion control conter or doctor immediatily for trailment advice. Have presson sip a plant water if also les wealine. Do not induce ventifier, unless bill 6 de so by a poisson control conter or doctor. Do not que applying in youth 5 an uncercolosus person.
QUESTIONS 7 1-209-581-9576	Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
NOTE TO PHYSICIAN:	Probable mucosal damage may contraindicate the use of gastric lavage.

PRECAUTIONARY STATEMENTS

DANGER CORROSIVE: Do not enter an enclosed area without proper respiratory protection, or when uncoupling of product transfer hoses. Causes ineversible eye damage and sin burns. May be shall in inhaled or absorbed through skin. Harmful if salawood. Due not better varieties varieties and sold one of get in eyes, on skin, or or clothing. Wear goggles, face shield, nubber gloves and protective clothing with long sleeves when handling. Wear thoroughly with scop and water a handling and before cating, drinking or using tobacco. Remove contaminated clothing and wash before rouse. Do not enter an enclosed area without proper respiratory protection, or when uncoupling of product transfer hoses. Wear a minimum of a NIOGH approved elastomeric half mask respirator with organic vapor (OV) cartridges and combination N1, R, or P filters; or a NIOGH approved gas

ters; or a NIOSH-approved powered air purifying respirator with OV cartridges and combination HE filters when handling concentrate product. STRONG OXIDIZING AGENT, CORROSIVE: IMIx only with water below 140° F.I Product must be diluted in accordance with label directions prior to use. This product is not

mbustible; however, at temperatures exceeding 156°F, decomposition occurs releasing oxygen. The oxygen released could initiate combustion

This posticide is toxic to birds, fish and aquatic invertebrates. Caution must be used when applying indoors because pets may be at risk. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, occars or other waters unless in accordance with the requirements of the National Pollutar Discharge System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effuent containing this product into sower systems without previously notifying the local sewage plant authority. Directions For Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling

This percovacetic acid sanitzer is recommended for use on precisaned surfaces such as equipment, pipelines, tanks, vats, filters, evaporators, pasteurizers, and asce

equipment in daries, treveries, wincries, beverage and tool processing/packing plants, and egg processing/packing options processing/packing options are supported with the product its effective as a sanitar when solution is propared in water of up to 400 ppm hardness as CaCO₂. This product has demonstrated greater than 99.999% reduction of Staphylococcus aureus are Escherichia coli in the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants study. Sanitizing Food Contact Surfaces: Sanitize with a concentration of 0.7-3.8 ft. oz. of this product diluted in 10 galons of water (93-500 ppm active peroxyacetic acid and 13

T33 ppm active hydrogen persistle). Use immersion, spray or circulation techniques as appropriate to the equipment. All surfaces must be exposed in sanitating solution for period of all least 69 seconds or inner. Sanitation of circulages and Equipment for Media Persistance of Companies and Equipment for Media Persistance and Companies and Equipment for Media Persistance and Companies od. For use in the static or continuous sertitions, earting or making of concepts, clickers, seals, and experience apply a solution of this product using a noncommended 3.7.3.8.8 co., per to galance or later (10.900 por automatic possessor) and (3.7.3.5.9 and cere) regions or particularly assistant of this product using a noncommended 3.7.3.8.8 co., per to galance or select to the product of excommended 4.7.3.8.8 co., per to galance a resident or the product of excommended 4.7.3.8.8 co., per to galance a resident to the product of excommended 5.7.3.8 co., per to galance a resident of the product of excommended 5.7.3.8 co., per to galance and the product of excommended 5.7.3.8 co., per to galance and the product of excommended 5.7.3.8 co., per to galance and the product of excommended 5.7.3.8 co., per to galance and the product using a new particular or excommended 5.7.3.8 co., per to galance and the product of excommended 5.7.3.8 co., per to galance and the product of excommended 5.7.3.8 co., per to galance and the product of excommended 5.7.3.8 co., per to galance and the product of excommended 5.7.3.8 co., per to galance and the product of excommended 5.7.3.8 co., per to galance and the product of excommended 5.7.3.8 co., per to galance and the product of excommended 5.7.3.8 co., per to galance and the product of excommended 5.7.3.8 co., per to galance and the product of excommended 5.7.3.8 co., per to galance and the product of excommended 5.7.3.8 co., per to galance and the product of excommended 5.7.3.8 co., per to galance and the product of excommended 5.7.3.8 co., per to galance and the product of excommended 5.7.3.8 co., per to galance and the product of excommended 5.7.3.8 co., per to galance and the product of excommended 5.7.3.8 co., per to galance 5.7.

Combination Disinfection and Cleaning: This product is effective against Staphylococcus aureus and Salmo peroxylacetic acid and 191ppm active hydrogen peroxide) in hard water (400 ppm ac CaCO₂) and 5% organic cleaning step is required. Apply solution with a mop, cloth, sponge, brush, or by soaking, spraying, or immersio minutes, then remove excess solution and entrapped soil with a clean wet mop, cloth, wet vacuum pickup or by d

ANTIMICROBIAL RINSE OF PRECLEANED OR NEW RETURNABLE OR NON-RETURNABLE CONTAINERS To reduce the number of nonpathogenic beverage spoliage organisms: Aspergillus versicolor, Byssochlamys fi Saccharomyces cerevisiae, use 1.0 to 10.1 fluid ounces of product per 5 gallons of water. This provides 265 to

peroxide. All surfaces must be exposed to antimicrobial solution for at least 15 seconds. After applying the ar

COMMERCIAL STERILANT FOR ASEPTIC PACKAGING OF LOW ACID FOOD

ackaging materials and equipment, such as, pipelines, pumps, tanks, vals, fillers, evaporators, and pasteurizers, when the solution is prepared in water of up to 400 ppm

commercial sterilization of aceptic filling systems and glass and plasts tood packaging and their enclosures prior to filling, except for use on tood packaging used in contact with infant formula or human milk or on aceptic filling explament used to fill such packaging, legify at a concentration of 34.1 for a of this product per 1 gallen of waster (2000 ppm) corresponded and one 6000 ppm in young personals and at a improvable of 60°C. Use immersion, coasse spray, or circulation techniques as appropriate to sterlines the food. beyonage or daily packaging materials. The solution must remain in contact with the packaging surface for a minimum of 20 seconds. Rinse containers with sterile water prior to filling with processed food, beverages or dairy products. When used according to label directions, this product is effective against spores of the following organisms: Bacillus

For a fine mist or vapor application, no rinse treatment is required it. (1) solution application does not exceed 0.0175 mL treatment solution per ounce co treatment solution has not been recycled: (3) no treatment solution with a concentration of higher than 4500 comperacetic acid and 6597 com hydrogen peroxide has been added to the treatment solution reservoir.

he aseptic food, beverage and dairy food processing operation must comply with all applicable FDA regulations and Food Contact Notification (FCN) 1851. Use in an aseptic

tood, beverage and dairy processing operation includes testing required for the process validation.

Aseptic Food Packaging Equipment: This product may be used as a commercial sterilant for asceptic packaging of low acid foods for non-corous food manufacturing. packaging and filling equipment. Remove gross soil particles from surfaces prior to use of this product. Thoroughly clean surfaces and follow with a potable water rinse.

Commercially sterilize clean manufacturing, filling, and packaging equipment with a concentration of 3.4 ft. ez. of this product per 1 gallon of water (4500 ppm peroxyacetic acid and 6597 nom active hydrocen perceidel at a temperature of 65 C. Use immersion, coarse spray, or circulation techniques as appropriate to sterilize the equipment. The solution must remain in contact with the equipment for a minimum of 20 seconds. Allow to drain dry. A final rinse with sterile water is optional. When used according to label directions,

REVERSE OSMOSIS (RO), ULTRA FILTRATION (UF) AND OTHER MEMBRANE CLEANING This product may be used in the sanitization of ultra filtration (UF) and reverse cannosis (RO) membranes and their associated piping systems. This product is not for us kidney displays equipment. Do not use the intermittent or continuous doring methods for mean or ultra-filtration food or drinking valuer applications. This product may not to eliminate all vegotables microorganization in RO or NF or UF membranes and their associated piping systems due to their constitution or assembly, but can be neled upon the product of the

reduce the number of microorganisms to acceptable levels when used as directed. Prior to using this product check with membrane manufacturer to confirm compatibility of nembranes with various types or concentration of peroxyacetic acid solutions. Batch Sanitation of NF, UF and RO Systems: Isolate incompatitie equipment, such as carbon filters and lon exchangers. Clean system with an appropriate cleaner and follow with RO permettle water or potation water. Remove mineral deposite is recessary with an advect cleaner, and rises as before. Fill eithe system with water and add at the DI of Ill of this product by existen. This will equal fill oppn personsystem and 1000 perm hydrogen personsise. Resolute the samitting solution through the being and membrane system. at 20° C for 10 minutes minimum, or up to 4 hours, depending on the seventy of cleaning to be done. Open and close process valves and sciencids to be sure all parts are in

at Dr. Combine Internation, or up or house, depending or her servery or obtaining to be office, open and observables and selections to be suite an pair is are in contact with the souther, Rinse the system with RD permate or potable usefur util residual persugger concentration is below it ppm.

Continuous or intermittent Addition: For continuous addition (dosing) for RD systems, use 2.5 ppm of active persugacetic acid, which equals 1.5.3.7 ft. az. of this product per 1000 gallons of process water. For occasional intermittent feed, do not exceed 93 ppm active perpayacetic acid, which equals 0.7 ft. oz. of this product per 10 gallons of feed

water. Continuous or intermittent dosing of this product is not allowed for use in NP or UP systems for on-line food or direking water applications.

WCIE: This product at its use dilution is compatible with stainless steel and aluminum surfaces. If product is intended to be used on any other surface, it is recoqui apply product in a smaller lost area to determine compatibly before proceeding with its use.

For use in the manufacture of paper and paperboard intended for food or non food contact. This product can be used to control bacteria and fungl in paper, paperboard or non-woven process water and influent water systems. Suitable dosing points include but are not limited to: stock chests, pulpers, the white water loop, white water storage systems.

Influent Water Systems: This product should be fed continuously to incoming fresh water streams (nonpotable use only) at dosages ranging from 0.11, 2.0 bs (1.5-27 ft, oz) of This product per 1000 gallors of new or process water (2.0-36 ppm possyspecific acid). Adjud dosage as necessary to maintain introbiological control.

Mil Process Waters: Intermittent Feed - This product may be fed intermittently (for example: 2-3 hours per 8 hour shift) at dosages ranging from 0.5 lbs to 1.2 ib (7-16.ft, oz.) of

this product per ton (dry basis) of pulp or paper produced. This desage is equivalent to 37-90 ppm peroxyacetic acid. Repeat as necessary when the peroxyacetic acid milinuous Feed - This product should be fed continuously at desages ranging from 0.11-1.2 lbs (1.5-16 fl. oz) of this product per ton (dry basis) of pulp or paper produced. This

dosage is equivalent to 8.0-90 ppm peroxyacetic acid. Shock (slug) Dose - This product may be used to shock dose systems requiring a high level of biofouling control. Use rates ranging from 1-8 lbs (13.5-108 ft az.) of this product

per ten (dry basis) of pulp or paper produced may be necessary. This desage is equivalent to 75-600 ppm peroxyacetic acid. Shock dose every 1-3 hrs as necessary until blobuling control is evident. Thereafter, revert to carbinous or intermittent the directions. COUNTROL OF SURF PORTINION BEACHERIA AND REPOPULINE IN ONCE-THEROUGH AND RECIPCULATING COOLING WATER LCOOLING TOWERS. EVAPORATIVE

CONCRESSES AR WASHESS AND CRIMARIPHAL OR RECREATIONAL MATER FEATURES (Severely build systems trust be dearned before adding this product. This product intuit build added in the water system directly, and not mixed with any other chemicals or additive. Never add this product in their profiting device, such as after feeders, fill her housings, by years bedoon, or miscolaneous pping of any kind, because dangerous acute

composition can occur. Discontinue the use of chlorine or bromine products prior to using this product. Contamination with other chemicals could result in product

composition. Add this product to only water at a point in this system where uniform mixing and over distribution will occur.

shock play installment for moderatively is exercisely found optime and explored in the product per 1000 gallens of process water (7-27 ppm persoyacets acid). Reposit as executing the product per 1000 gallens of process water (7-10 ppm deprenayacets acid). Reposit as executing the product per 1000 gallens of process water (7-10 ppm deprenayacets acid). acid) as a continuous treatment method. Continuous dosing methods usually require 1.5-5 ft, oz. per 1000 gallons of water (2-7 ppm peroxyacetic acid) to achieve adequate

10 fl. oz of this product per 1000 gallons of process water (7-14 ppm peroxyacetic acid). CLEANING: To remove sessile bacteria from cooling systems it is necessary to clean sline and sline-forming bacteria from the surfaces of all areas of water contact. This can CEMANNA. To retrieve schools became in course pleasine in a necessary or an extensive coming sector into its statutes of an action was contact. This call be accomplished by treating the recycled water with 2.8.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water (50-150 ppm, action produced per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water (50-150 ppm, action produced per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water (50-150 ppm, action produced per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of water with 2.8.3 bis, (37-112 oz.) of this product per 1500 ggi of water with 2.8.3 bis, (37-112 oz.) of water with 2.8.3 bis, (

rine or bromine or PAA treatments can begin. This treatment must be done at least once or twice each year depending on exposure conditions. Air Washers: This product may be used to control bacteria and biofouling in industrial air washing/scrubbing systems. The air washer must have operational and effective mist systems. Prior to use of this product, heavily fouled systems must be pre-cleaned using the appropriate cleaner. Continuous dosing methods will require 2-7 ppm and

irrigation

0/0







OIL, GAS AND SECONDARY OIL RECOVERY SYSTEMS, DRILLING MUDS, FRACTURING FLUIDS, AND PACKING FLUID, INJECTION WATER AND FLOODWATER

bacteria. This product may be used in fresh or recycled water, secondary recovery systems, muds or fluids. This product controls non-public health biofilm and slime deposits of

TREATMENT OF FRUIT AND VEGETABLE PROCESS WATER SYSTEMS

Batch, Continuous or Spray System Processes: HI vessel containing truits and vegetables with known amount of water. Ensure that water is circulating in vessel if using the

Impersion method. Add this product to no more than 500 ppm residual peroxyacetic acid to the use solution in accordance with Food Contact Notification #1738, effective arch 28, 2017. This can be accomplished by initially adding 3.8 ft. oz. per 10 gallons of water. The recommended concentration is between 30-300 ppm as perox 0.23-2.3 ft. co. per 10 gailons of water). The final concentration necessary to accomplish the intended task will vary from plant-to-plant. The final concentration necessary to accomplish the intended task will vary from plant-to-plant. The final concentration necessary to accomplish the intended task will vary from plant-to-plant. The final concentration may be added as necessary. It is also recommended to apply this product during the washing, chilling, or physical cleaning processes, including the roller-pareader, washer or brush washer markbid, do task, or sorting processes. Contact time of 6% seconds is recommended to insure efficacy. A positio water fines in not required. Engaging: (like to the in California; For may applicatual commode secondary point begging registed to the imple used provided the dilution rates of the resultant solution.

es not exceed those prescribed in this section (3.8 ft. oz. per 10 gal of water). A potable water rinse is not required. Conventional corresion-resistant flogging devices are ommended. Vacate the area of all personnel prior to, during and after fogging until the total peroxide concentration is below 1.0 ppm, or there is no strong odor present,

To control, treat or suppress the bacterial and fungal diseases; silver sourf, late blight, pink not, early blight, bacterial soft not. This product can be applied by dip or spray or harvested potatoes going into storage. Use 0.8-1.6 ft, oz. of this product per five gallons of clean water. Do not reuse already mixed solution; make fresh daily. If applying diluted over potatoes to achieve full and even coverage. Ensure full contact on all surfaces for 45 seconds. POULTRY, WINEL LIVESTOCK WATERING OPERATING SYSTEMS
After watering lines have been cleaned, use this product at 0.3.42 ft, oz. per 100 gallons of water (4.569 ppm as peroxyacetic acid) to control algae and bacteria in drinking water

mineral build up in watering lines. Stop the use of this product twenty-four (24) hours prior to vaccination via the water line

Storage: Never return this product to the original container after it has been removed. Avoid all contaminants, especially dirt, caustic, reducing agents, and metals.

Contamination and impurities will reduce shelf life and can induce decomposition. In case of a decomposition, isolate container, spray container with cool water and dilute this product with large volumes of water. Avoid damage to containers. Keep container closed at all times when not in use. Keep container out of direct sunlight. To maintain product

organic materials away. Flush spilled material with large quantities of water. Undiluted material must not enter confined spaces

Pedicide Disposal: Pedicide wastes are acutely hazardous. Improper disposal of excess posticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed by use contenting to based involvations, contact your State Redicide or Environmental Contril Agency, or Hazardous Matthe representative at the next Regional Office for guidance. Il material has been splite, an acceptable method of disposal to dilute with a load 20 volumes of water followed by being being with suitable. realment system in accordance with all local, state and Federal environmental laws, rules, regulations, standards, and other requirements. Because acceptable methods of disposal may vary by location, regulatory agencies must be contacted prior to disposal. This product which is to be discorded, must be disposed of as hazardous waste after contacting the appropriate local State or Federal agency to determine proper procedures.

Container Disposal: Nonrefliable container. Do not reuse or refil this container. Clean container promotiv after emptying. Offer for recycling, if available. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and lighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and by it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Container Handling: (Containers equal to or less than 5 gallons): Nonretilable container. Do not reuse or retil this container. Triple rinse container (or equivalent) remediate

after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds. after the flow begins to drip. Repeat the procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do no

Manufactured By: Enviro Tech Chemical Services, Inc. 500 Winmoore Way, Modesto, CA 95358 209-581-9576 or www.envirolech.com

24 hr Emergency ChemTel Number: 1-800-255-3924





DOT: UN 3109, Organic Peroxide Type F, Liquid (<=25% Peracetic Acid with <=26% Hydrogen Peroxide) 5.2 (8)

Net contents: Ver 13.2c (Aug-2020)





Navigating the Product Label

BioSide HS™15%

(ANTIMICROBIAL SOLUTION)

cide developed for Equipment Sanitizing, Disinfection, Aseptic Packaging, and Bacteria, Fungi, Slime and Odor Control in: Pulp and Paper Mill Systems, Fruit and Vegetable Process Water Systems, Oil and Gasfield water systems, and Bacterial ACTIVE INGREDIENT:

Peroxyacetic Acid

INERT INGREDIENTS

EPA Registration No: 63838-2 EPA Est. No. 63838-CA-01: 63838-AR-001
Before Using This Product, Please Read This Entire Label Carefully.

KEEP OUT OF REACH OF CHILDREN DANGER-PELIGRO

(If you do not understand this label, find someone to explain it to you in detail.) Note to Reviewer: In accordance with 40 CFR 156.68(d), all first aid statements, as prescribed, will appear on the front

FIRST AID	pariet of the product label.
IF IN EYES	 Hold cyc open and rinse slowly and gontly with water for 15-20 minutes. Remove contact lorses, if present, after the first 3 minutes, then continue rinsing eye. Call a polion control conter or doctor in retarement article.
IF ON SKIN OR CLOTHING	Take off contaminated clothing. Rinse skin immediately with picrity of water for 15-20 minutes. Call a pisson control center or declar for treatment advice.
IF INHALED	Move person to feeth air. Foreign is not breath, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mucit, if possible. Gall a poison control operar or desort for treatment advice.
IF SWALLOWED	Call a position control continuer of doctor immediativity for transment advice. Have persons sip a diversified in whater if all the healthough. Do not induce wornlifting unities to did so do by a policies control content or doctor. Do not cut you anything by mouth the au unconclosular person.
QUESTIONS 7 1-209-581-9576	Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
NOTE TO PHYSICIAN:	Probable mucosal damage may contraindicate the use of gastric lavage.

PRECAUTIONARY STATEMENTS

DANGER CORROSIVE: Do not enter an enclosed area without proper respiratory protection, or when uncoupling of product transfer hoses. Causes ineversible eye damage and skin burns. May be fatal if inhaled or absorbed through skin. Harmful if swallowed. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Wear googles, face shield, nubber gloves and protective clothing with long sleeves when handling. Wash thoroughly with scap and water after handling and before cating, drinking or using obacco. Remove contaminated clothing and wash before rouse. Do not enter an enclosed area without procer respiratory protection, or when uncoupling of product transfe oses. Wear a minimum of a NICISH-approved elastomeric half mask respirator with organic vapor (CV) cartridges and combination N1. B. or P filters: or a NICISH-approved gas

Combination Disinfection and Cleaning: This product is effective against Staphylococcus aureus and Salm sensiyacetic acid and 191ppm active hydrogen peroxide) in hard water (400 ppm as CaCO₂) and 5% organic cleaning step is required. Apply solution with a mop, cloth, sponge, brush, or by soaking, spraying, or immersio minutes, then remove excess solution and entrapped soil with a clean wet mop, cloth, wet vacuum pickup or by o

ANTIMICROBIAL RINSE OF PRECLEANED OR NEW RETURNABLE OR NON-RETURNABLE CONTAINER

Sacchammyore convisiae, use 1.0 to 10.1 fluid ounces of product per 5 gallons of water. This provides 265 to peroxide. All surfaces must be exposed to antimicrobial solution for at least 15 seconds. After applying the a

COMMERCIAL STERILANT FOR ASEPTIC PACKAGING OF LOW ACID FOOD

commercial startization of aceptic filing systems and glass and plastic tood packaging and their enclosures prior to filing, except for use on food packaging used in contact with refarr formal are human milk or an aceptic filing equipment used to fill supplicatings, pipty at a concentration of 3.4 ft. a.c. of his product for plastic of water (450) green consequenced and and 650 grown physiogen provised; and at a temperature of 65°C. Use memorating causes exp., or crusialist in schriques as appropriate to notation the food. beverage or daily packaging materials. The solution must remain in contact with the packaging surface for a minimum of 20 seconds. Rinse containers with sterile water prior to filling with processed food, beverages or dairy products. When used according to label directions, this product is effective against spores of the following organisms: Bacillus

treatment solution has not been recycled; (3) no treatment solution with a concentration of higher than 4500 ppm peracetic acid and 6597 ppm hydrogen peroxide has been added to the treatment solution reservoir.

The aseptic food, beverage and dainy food processing operation must comply with all applicable FDA regulations and Food Contact Notification (FDN) 1851. Use in an aseptic tood, beverage and dairy processing operation includes testing required for the process validation.

Aseptic Food Packaging Equipment: This product may be used as a commercial sterilant for asseptic packaging of low acid foods for non-corous food manufacturing

Assigning and filling equipment. Remove gross soil particles from surfaces prior to use of this product. Throughly clean authors and follow with a potable water fines.

Commorcially sterilize clean manufacturing, filling, and packaging equipment with a concentration of 3.4 fi.e. or this product per 1 gallon of water (4500 pm peroxyacetic acids). and 6597 nom active hydrocen perceidel at a temperature of 65 C. Use immersion, coarse spray, or circulation techniques as appropriate to sterilize the equipment. The solution must remain in contact with the equipment for a minimum of 20 seconds. Allow to drain dry. A final rinse with sterile water is optional. When used according to label directions, his product is effective against Bacillus subtils. Bacillus corrus and Clostridium sportogenes.

REVERSE OSMOSIS (RO), ULTRA FILTRATION (UF) AND OTHER MEMBRANE CLEANING This product may be used in the sanitization of ultra filtration (UF) and reverse comosis (RO) membranes and their associated piping systems. This product is not for use in kidnly dialyse expirated. Do not use the intermittent or continuous dissing methods for rance or ultra-filtration food of rishing water applications. This product may not lotally clinicate all vegetative micrographics in RO or NF or UF membranes and their associated piping pystems due to their construction or assembly, but can be relected upon to reduce the number of microorganisms to acceptable levels when used as directed. Prior to using this product check with membrane manufacturer to confirm compatibility of nembranes with various types or concentration of peroxyacetic acid solutions.

Batch Sanitation of NF, UF and RO Systems: Isolate incompatitie equipment, such as carbon filters and lon exchangers. Clean system with an appropriate cleaner and follow with RO permettle water or potation water. Remove mineral deposite is recessary with an advect cleaner, and rises as before. Fill eithe system with water and add at the DI of Ill of this product by existen. This will equal fill oppn personsystem and 1000 perm hydrogen personsise. Resolute the samitting solution through the being and membrane system. This product on your control man law quality and product on a control of the product of the prod

water. Continuous or intermittent desing of this product is not allowed for use in NF or UF systems for on-line tood or dinking water applications.

WCTE: This product at its use dilution is compatible with statisfiess stated and aluminum surfaces. If product is intended to be used on any other surface, it is no request product a smaller lost area to determine compatibility before proceeding with its use.

BIOFOULING CONTROL IN PULP, PAPER AND PAPERBOARD MIII AND WATER SYSTEMS (Not for use in California)

Influent Water Systems: This product should be fed continuously to incoming fresh water streams (nonpotable use only) at dosages ranging from 0.11, 2.0 bs (1.5-27 ft, oz) of this product per 1000 gallons of raw or process water (2.9-36 ppm peroxyacetic acid). Adjust desage as necessary to maintain microbiological control.

Mil Process Waters: Intermittent Feed - This product may be fed intermittently (for example: 2-3 hours per 8 hour shift) at desages ranging from 0.5 lbs to 1.2 lb (7-16 ft, oz.) of peroxyacetic acid. Repeat as necessary when the peroxyacetic acid

Bioside HS 15% sub-label is not approved for use in irrigation water systems, even though the EPA master label includes irrigation

water sytems as a labeled use.

irrigation

0/0







bacteria. This product may be used in fresh or recycled water, secondary recovery systems, muds or fluids. This product controls non-public health biofilm and slime deposits of

TREATMENT OF FRUIT AND VEGETABLE PROCESS WATER SYSTEMS
This product can be used in water or ice that contacts has of fresh, post-harvest or further processed faults and vegetables for the control of spolage and do and fungli in commercial potentions and packinghouses. Batch, Continuous or Spray System Processes: Fill vessel containing thuts and vegetables with known amount of water. Ensure that water is circulating in v

submersion method. Add this product to no more than 500 ppm residual peroxyacetic acid to the use solution in accordance with Food Contact Notification #1738, effective (0.23.2.3 ft. oz. per 10 gallons of water). The final concentration necessary to accomplish the intended task will vary from plant-to-plant. The finals and vegetables can be continuously sprayed or submerged (dipped) in the resulting solution. Periodic or continuous additions of this product to maintain the required concentration may be added as

recommended. Vacate the area of all personnel prior to, during and after fogging until the total peroxide concentration is below 1.0 ppm, or there is no strong odor present

TREATMENT OF HARVEST POTATOES

Name to our Common.

To control, treator suppress the bacterial and fungal diseases: silver sourt, late blight, pink rot, early blight, bacterial soft rot. This product can be applied by dip or spray on harvested potatoes going into storage. Use 0.8-1.6-f. oz. of this product per five gallons of clean water. Do not rouse already mixed solution; make fresh daily. If applying diluted viover polatoes to achieve full and even coverage. Ensure full contact on all surfaces for 45 seconds.

POULTRY, SWINE_LIVESTOCK WATERING OPERATING SYSTEMS
After watering lines have been cleaned, use this product at 0.3-42 fl. oz. por 100 gallors of water (4-529 ppm as peroxyscelic acid) to control algae and bacteria in drinking wa the use of this product twenty-four (24) hours prior to vaccination via the water line

Storage: Never return this product to the original container after it has been removed. Avoid all contaminants, especially dirt, caustic, reducing agents, and metals.

Contamination and impurities will reduce shelf life and can induce decomposition. In case of a decomposition, isolate container, spray container with cool water and dilute this product with large volumes of water. Avoid damage to containers. Keep container closed at all times when not in use. Keep container out of direct sunlight. To maintain produc

organic materials away. Flush spilled material with large quantities of water. Undiluted material must not enter confined spaces

Pedicide Disposal: Pedicide wastes are acutely hazardous. Improper disposal of excess posticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed by use contenting to based involvations, contact your State Redicide or Environmental Contril Agency, or Hazardous Matthe representative at the next Regional Office for guidance. Il material has been splite, an acceptable method of disposal to dilute with a load 20 volumes of water followed by being being with suitable. atment system in accordance with all local, state and Federal environmental laws, rules, regulations, standards, and other requirements. Because acceptable methods of disposal may vary by location, regulatory agencies must be contacted prior to disposal. This product which is to be discorded, must be disposed of as hazardous waste after contacting the appropriate local State or Federal agency to determine proper procedures.

Container Disposal: Nonrefilable container. Do not reuse or refil this container. Clean container promotiv after emptying. Offer for recycling. If available, Triple rinse as follows: Empty the remaining contents into application equipment or aims tank. Fill the container of 4 fail with water. Register and register described by a failure of the container of 4 fail with water. Register and register described by a failure of the container of 5 failure of the container of 5 failure of the container of 5 failure Container Handling: (Containers equal to or less than 5 callens): Nonrelliable container. Do not reuse or refli this container. Triple rinse container for equivalent promot

after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds. after the flow begins to drip. Repeat the procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfil, or by incineration. Do no

Manufactured By: Enviro Tech Chemical Services Inc. 500 Winmoore Way, Modesto, CA 95358 209-581-9576 or www.envirotech.com

24 hr Emergency ChemTel Number: 1-800-255-3924





DOT: UN 3109, Organic Peroxide Type F, Liquid (<=25% Peracetic Acid with <=26% Hydrogen Peroxide) 5.2 (8)

Ver 13.2c (Aug-2020)

ling control. Use rates ranging from 1-8 lbs (13.5-108 fl. oz.) of this product

ss feeders, or miscellaneous piping of any kind, because dangerous acute

ser 1000 gallons of process water (7-27 ppm peroxyacetic acid). Repeat as of this product per 1000 gallons of process water (2-10 ppm of peroxyaceti

000 gallons of water (2-7 ppm peroxyacetic acid) to achieve adequate

00 gal of water (50-150 ppm active peroxyacetic acid) for 4-8 hours during the blood down the system until the PAA level is <5-10 ppm, then normal rubbing systems. The air washer must have operational and effective mist

fuct. Contamination with other chemicals could result in product

Using the PSA Sanitizer Tool to Navigate Label Differences

				EPA Master Label Details										
				EPA Master Label		Preharvest Labeled Uses	Postharvest Labeled Uses			Efficacy Statement	Product Information			
Compare	Product Name	Name on EPA Master Label	Active Ingredient (% Strength)	EPA Registration Number	Labeled Use Info Based on Version Date	Labeled For Use in Irrigation Water Systems	For Use on Non-Porous Food Contact Surfaces	Labeled For Use on Postharvest Water Distribution Systems	Labeled for Use in Fruit and Vegetable Wash Water	Labeled to Control Human Pathogens	Organic Materials Review Institute (OMRI) Listing	Amount Purchasable per EPA Label	Manufacturer/ Distributor	<u>Notes</u>
	BioSide HS 15%	BioSide HS 15%	PAA (15.0%); Hydrogen Peroxide (22.0%)	63838-2	2/21/20	Yes, see page 15	Yes, see page 5	Yes, see page 10	Yes, see page 9	For Food Contact Surfaces	Allowed with restrictions	Information not available	Enviro Tech Chemical Services	Allowed uses on Product Label differ from uses on EPA Master Label EPA Master Label identifies State-level restrictions EPA Master Label allows for foliar sprays in addition to irrigation



Additional Sanitizer Observations

- Fewer sodium hypochlorite products appear to be labeled for fruits and vegetable wash water
 - Clorox products used to be an accessible option but many Clorox labels were recently revised
- Seeing more products labeled to control public health organisms in fruit and vegetable wash water
- Currently no sanitizer products labeled to treat irrigation water for public health organisms
 - Although we know there is at least one product in the pipeline





PSA Resources: Basic Video

Tutorial





PSA Resources: EPA-Labeled Sanitizer Factsheet

Preduce Safety

ALLIANCE

Introduction to Selecting an EPA-Labeled Sanitizer

Donna Pahl Clements, Gretchen Wall, Don Stoeckel, Connie Fisk, Kristin Woods, and Elizabeth Bihn October 2018

The use of properly labeled sanitizers (i.e., antimicrobial pesticides) in water that comes in contact with fruits and vegetables at or after harvest is highly encouraged to reduce the risk of crosscontamination by human pathogens. The use of sanitizers that have a United States Environmental Protection Agency (EPA) label are encouraged since these products have been evaluated by the EPA to limit the product's impact on the environment and human health. Sanitizers are employed as a water treatment to prevent the spread of contamination in harvest and postharvest systems, such as dump tanks (or high volume tanks) and flumes. Sanitizers also can be used as part of a multi-step cleaning and sanitizing routine to reduce the level of pathogens on food contact surfaces to acceptable levels (see 'sanitizer' in Produce Safety Alliance glossary)1. Once number. Additionally, EPA must review any statements made on the product's label; this information may include efficacy statements describing the organism(s) that the sanitizer will control if used according to label instructions, and directions for use, storage, and disposal. More information can be found in the EPA FIFRA summary document³. Though the FSMA PSR does not expressly require growers to use an EPA-labeled sanitizer, it is one way to determine if a sanitizer will be effective. If a grower uses a sanitizer that does not have an EPA label, the grower should be able to prove that the product is suitable for the intended use (such as washing fresh produce) and for reducing contamination risks.

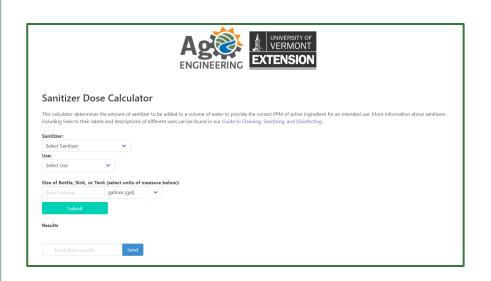
What should a grower look for in a sanitizer label?





Highlight of Sanitizer Resources: Dosing and Dispensing

- UVM Sanitizer Dose Calculator
- UVM Safely Dispensing Sanitizers







Credit: 'Safely dispensing



Highlight of Sanitizer Resources: Pre-Harvest Water Sanitizer Use

- U of A "Minimizing Risks: Use of Surface Water in Pre-Harvest Agricultural Irrigation" Series
 - Part I: Understanding Water
 Quality and Treatment Options
 - Part II: Sodium and Calcium
 Hypochlorite Treatment Methods
 - Part III: Peroxyacetic Acid
 Treatment Methods





Highlight of Sanitizer Resources: Postharvest Sanitizer Use

WSU Food Safety
 Considerations for
 Postharvest Washing of
 Produce and Sanitation
 of Packing Areas

FOOD SAFETY CONSIDERATIONS FOR POSTHARVEST WASHING OF PRODUCE AND SANITATION OF PACKING AREAS



Many food safety issues that occur in postharvest unit operations are associated with:

- Cross contamination between contaminated and uncontaminated produce during washing, or
- Improper cleaning and disinfection of tools, equipment, and facilities used during packing and holding of produce.

For these reasons, we will focus on proper use of two commonly used sanitizers, chlorine and peroxyacetic acid (PAA) during postharvest washing as well as how to develop a robust sanitation program for your farm or packinghouse.

What Exactly is a Sanitizer?

While we hear the term sanitizer daily, we may not realize exactly what that term means. The term sanitize has been defined by the FDA (2019) as, "to adequately treat cleaned surfaces by a process that is effective in destroying vegetative cells of pathogens, and in substantially reducing the numbers of other undesirable microorganisms, but without adversely affecting the product or its safety for the consumer" (21 CFR part 117.3). Sanitizing is used as a step to reduce the number of disease-causing bacteria and viruses to a safe level, and to prevent cross contamination and the formation of biofilms.

The EPA has stringent standards that a compound must meet to be considered a sanitizer for food contact surfaces. In this evaluation, the compound has to cause a 99.9999% reduction of a specific set of bacteria within 30 seconds to be considered a sanitizer. These compounds must be registered by the EPA and are considered antimicrobial pesticides. Sanitizers are used in two primary ways in the produce industry:

- 1. In the washing and transportation steps, and
- 2. To disinfect various surfaces in the packinghouse and on equipment and tools after they are cleaned.

Washing Produce

Markets require many types of produce to be washed prior to sale in order to remove dirt and other debris. Foodborne pathogens (harmful microorganisms that can make people ill) are not seen with the naked eve, and produce can be contaminated with these pathogens before it enters the packinghouse. This makes the washing step one of the most important steps in packing, because, if not controlled, it can be a source of cross contamination (when foodborne pathogens fall off of contaminated produce into the water they can contaminate more produce). Sanitizers, such as chlorine and PAA, should be used during the washing step to eliminate cross contamination because, if pathogens are on the surface of produce, some will be dispersed into washing water and contaminate any fruits or vegetables that are washed following the contaminated produce. These sanitizers are designed to inactivate any bacteria that are introduced into the water, drastically reducing the possibility of cross contamination (Figure 1, page 2).

NOTE: Washing will not remove or inactivate foodborne pathogens or chemical contaminants on the produce itself, so good agricultural practices (GAPs) must always be followed.

Chlorine Basics

Chlorine is one of the most widely used sanitizers in food production due to its low cost and ease of application.

Chlorine comes in three forms:

- Calcium hypochlorite (CaCl₂O₂), which comes in a powder or tablet,
- Sodium hypochlorite (NaOCl), which comes in a liquid and is what we commonly call bleach, and
- Chlorine gas (Cl₂). Calcium hypochlorite and sodium hypochlorite are most commonly used by small to medium growing operations.





Acknowledgements

- Tommy Saunders for initial slide content on sanitizer tool updates
- The entire PSA team who worked on the updates to the sanitizer tool and searching for updated labels, especially Don, Rob, Collins, Thais, Toria, and Betsy
- Focus group members who provided constructive input on the tool updates and sanitizer labeling process





Questions?





Revised Subpart E: Agricultural Water (Pre-Harvest Uses)

- Revisions to the FSMA PSR, Subpart E were published on May 06, 2024
- New compliance dates
- Updated FDA resources
- Changes to PSA
 Grower Training
 Course delivery



Direct link





FDA Subpart E Compliance and Enforcement Dates

 Two "waves" of compliance dates in Subpart E: Agricultural Water (for covered produce other than sprouts)

Business Size Class (3-year Rolling Average Produce Sales)	Pre-Harvest Water Compliance Dates	Postharvest Water Compliance Dates (Enforcement Dates)
All other businesses (>\$500K sales)	4/07/25	1/26/22 (1/26/23)
Small businesses (>\$250K-500K sales)	4/06/26	1/26/23 (18/26/24)
Very small businesses (>\$25K-250K sales)	4/05/27	1/26/24 (1/26/25)





Overview of Revision

- Same structure and similar content as 2021 Proposed Revision
- Pre-harvest water use decisions based on a holistic/systemsbased agricultural water assessment
- Testing for generic E. coli can be a part of the assessment but there is no stand-alone E. coli standard for decision making
- The assessment results in outcomes
 - No measures needed, OR
 - 2. Mitigation measures needed to reduce risk, OR
 - 3. Corrective measures needed to address conditions that cause water to be not safe, or not of adequate sanitary quality for pre-harvest use
- No changes to requirements for sprouts, or for agricultural water used during harvest and postharvest





Visit the FDA Web Page for Updated Resources



← <u>Home</u> / <u>Food</u> / <u>Guidance & Regulation (Food and Dietary Supplements)</u> / <u>Food Safety Modernization Act (FSMA)</u> / <u>FSMA Final Rule on Pre-Harvest Agricultural Water</u>

FSMA Final Rule on Pre-Harvest Agricultural Water

Updated resources include:

- Fact Sheet on the Final Rule
- Factors for Agricultural Water Assessment to Consider
- Agricultural Water Assessment Builder version 2
- Corrective and Mitigation Measures for Pre-harvest Agricultural Water for Non-Sprout Covered Produce
- Annual Agricultural Water Assessments and Risk-Based Outcomes





Changes to PSA Grower Training Course Delivery

- Short-term
 - Continue delivery using Module 5.1 from the V1.2 manual and strongly recommend using PSA supplemental slides
 - Trainers were notified by PSA on May 03, 2024
- Mid-term
 - PSA developed Revised Module 5.1 (coming soon)
 - PSA Trainers will be asked to use Revised Module 5.1
 - An Educators' call and video tutorial will come at the same time
- Long-term, pending funding
 - Creation of a V2.0 PSA Grower Training Manual and slides





What to Expect from PSA

- Access to Revised Module 5.1 slides
 - Webinar for PSA Trainers to share delivery strategies
 - New Module 5.1 handouts
- Refresher extension slides
 - For growers who have already attended PSA GT
 - Webinar for PSA Trainers to discuss slides and use
- Updates to PSA resources
 - Many references to Subpart E content and PSR provision numbers need to be addressed





Other Important PSA Changes

- Bon voyage, Collins Bugingo!!
 - Moving on to Plant Pathology Extension at Oregon State starting June
 - Davis Blasini will be the new Western Region Extension Associate (covering both Northwest and Southwest)
- Farewell, Laura Pineda Bermudez!!
 - Laurita may not have the visibility of some other PSA team members,
 but she packs a powerful punch at PSA and the National GAPs program
 - New position in policy research at Library of Congress starting June
- Time away for Laurie George!!
 - Short term medial leave from now through August 2024
 - Don Stoeckel will be covering as the Midwest REA while Laurie is out





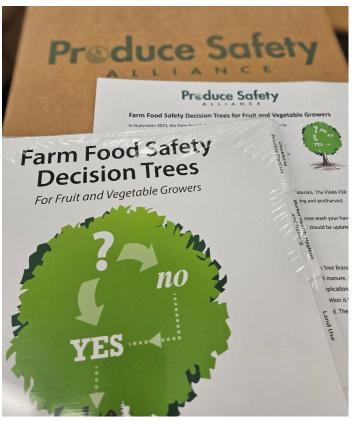
PSA Funding Update

- We anticipate that our current FDA Cooperative Agreement will receive a no-cost extension
- We anticipate we will be getting a new FDA cooperative agreement beginning in July 2024 – June 2025
 - Neither of these are in place yet, so currently we are out of funds June 30, 2024
- Right now, neither of these funds all the PSA Team
- PSA Team is still going through attrition; significant concern
- If everything does happen, we will still be in a difficult position because long-term funding is not in place





Decision Trees



- Available for cost of shipping label!
- 18 Trees per box
- PSA will provide a photocopied addendum page per tree ordered
- Interested? Contact
 Toria Melville
 (tm599@cornell.edu)





Next Educators' Calls: All About Ag Water

- Revisions to PSA Module 5.1: Pre-harvest Water
 - English Educators' Call: Monday, June 10 at 3-4:30pm EDT
 - Spanish Educators' Call: Wednesday, June 13 at 3-4:30pm
 EDT
 - Registration link will be circulated

- Labeled Sanitizers for Produce en Español
 - Spanish Educators' Call: TBD
 - Registration link will be circulated

