



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

March 8, 2017

Abigail T.D. Wacek  
Regulatory Consultant  
Technology Sciences Group Inc.  
1150 18<sup>th</sup> Street, NW Suite 1000  
Washington, DC 20036

Subject: PRIA Label Amendment – Efficacy and Acute Toxicity Data Review  
Product Name: AcidiShine  
EPA Registration Number: 4959-1  
Application Date: November 1, 2016  
Decision Number: 523626

Dear Ms. Wacek:

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.

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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 [northern.terria@epa.gov](mailto:northern.terria@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "John Hebert" with a stylized flourish at the end.

John Hebert, Chief  
Regulatory Management Branch I  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

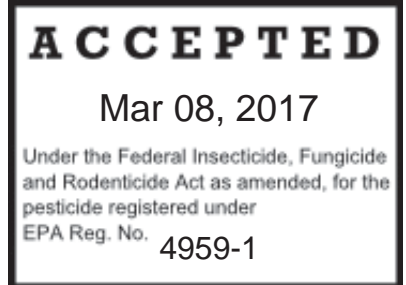
Enclosure: Stamped Label

# AcidiShine™

**Hard, non-porous, food-contact surface cleaner, sanitizer, and disinfectant for use in commercial and industrial settings**

**Active Ingredient:**

Hydrogen Peroxide.....6.0%  
 Peracetic Acid.....5.2%  
**Inert Ingredients**.....88.8%  
 Total.....100.0%



**KEEP OUT OF REACH OF CHILDREN  
 DANGER – PELIGRO**

**Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)**

[See [left] [back] [side] panel [of label] for additional precautionary statements [and first aid statements]

<b>FIRST AID</b>	
<b>If in Eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on Skin or Clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 – 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> <li>• Call a poison control center or doctor immediately for treatment advice.</li> </ul>
<b>If Inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible.</li> <li>• Call a poison control center or doctor immediately for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or when going for treatment. For general information on product use, etc., call the National Pesticides Information Center at 1-800-858-7378. For emergencies, contact Chemtrec (800-424-9300).	
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.	

**Manufactured  
For/By: West Agro,  
Inc.**  
11100 N. Congress Ave.  
Kansas City, Missouri  
64153  
**EPA Reg. No.:** 4959-1

**EPA Est. No.:** 60156-IL-01,  
4959-IL-01  
4959-CA-01  
4959-TX-01  
54612-CN-001  
833-PA-1

**[Net Contents:]**

[VMS icon]

### PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS: DANGER: CORROSIVE.** Causes irreversible eye damage and skin burns. May be fatal if absorbed through skin. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear overalls worn over long-sleeved shirt and long pants, socks, chemical-resistant footwear, and gloves. Wear protective eyewear (goggles, face shield, or safety glasses). Remove contaminated clothing and wash clothing before reuse.

**PHYSICAL OR CHEMICAL HAZARDS: STRONG OXIDIZING AGENT. CORROSIVE.** Mix only with potable water below 140° F. Product must be diluted in accordance with label directions prior to use. AcidiShine™ is not combustible; however, at temperatures exceeding 156°F, decomposition occurs releasing oxygen. The oxygen released could initiate combustion.

#### PERSONAL PROTECTIVE EQUIPMENT

Handlers who may be exposed to the undiluted product through mixing, loading, application, or other tasks must wear: coveralls over long-sleeved shirt and long pants, rubber gloves, chemical resistant footwear plus socks, and protective eyewear (goggles or face shield).

Handlers who may be exposed to the undiluted product through application or other tasks must wear: long-sleeved shirt and long pants, and shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### USER SAFETY RECOMMENDATIONS

Users should wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

*[For containers greater than 5 gallons:]*

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. Not harmful to septic tanks

[For containers less than or equal to 5 gallons:]

#### **ENVIRONMENTAL HAZARDS**

This product is toxic to birds, fish, and aquatic invertebrates.

#### **DIRECTIONS FOR USE**

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE) and Restricted-Entry Interval (REI). The requirements in this box only apply to the uses of this product that are covered by the Workers Protection Standard. There is a restricted entry of zero (0) hours for this product.

#### **Non-Agricultural Use Requirements**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried.

#### **DISINFECTION – AGRICULTURAL USE**

**AGRICULTURAL OR HORTICULTURAL USES:** There is a Restricted-Entry-Interval of zero (0) hours after the use of this product. This product should never be mixed or combined with any other pesticide or fertilizer. Upon soil contact this product decomposes rapidly to oxygen and water. This product may be harmful to fish if exposed on a continuous basis at concentrations of 0.5 ppm or more of active peroxyacetic acid. Meter this product into pressurized pipes using a plastic or stainless steel injection/backflow device installed far enough upstream from the target equipment to ensure thorough mixing. For open flowing bodies of water, apply this product as far upstream as possible to allow adequate mixing prior to the flow entering any larger body of water. If open pouring of this product is required pour product as close to the surface of the water as possible to reduce odor exposure.

**Treatment of Irrigation Water Systems (Sand filters, humidification systems, storage tanks, ponds, reservoirs, canals) (Not for use in California):** For the control of odor, sulfides, slime and algae in water systems, apply this product at 2.2 oz. per 100 gallons of water (10 ppm peroxyacetic acid). Repeat dose as necessary to maintain control, which will vary with seasonal conditions. For prevention of algae some systems may require continuous low level dosing during warm sunny periods.

**Drip Irrigation System Cleaning (Not for use in California):** To clean slime and algae from drip system tapes and emitters, meter this product upstream from pumps or filters at the rate of 1.1 – 2.2 oz per 50 gallons of water (10-20 ppm peroxyacetic acid). When required, during normal irrigation

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cycles, use this product at the recommendation dose for a minimum of 30 minutes. Thereafter, the irrigation cycle should be discontinued and the line should not be flushed.

**Commercial Greenhouses** (*Not for use in California*): This product can be used to suppress/control algae and slime formations in and around greenhouse structures, including ventilation/cooling and watering systems, coolers, storage rooms, walkways, floor/mats and on other inanimate surfaces.

For normal use in various processes, irrigation or sprinkler watering systems, this product may be used at 1:12,800 to 1:1,700 dilutions (4 - 30 ppm as peroxyacetic acid). Heavily fouled systems, such as evaporative coolers or irrigation/drip lines may need shock doses of up to 100 ppm as peroxyacetic acid (1:520 dilution).

NOTE: This product is highly acidic. Do not use with or around chlorinated products. This product at its use dilution is compatible with stainless steel surfaces. If product is intended to be used on any other surface, it is recommended that you apply product to a smaller test area to determine before proceeding with its use.

### **SANITIZATION – FOOD CONTACT SURFACES**

AcidiShine™ is a hydrogen peroxide and peroxyacetic acid sanitizer recommended for use on pre-cleaned surfaces such as equipment, pipelines, tanks, vats, filters, evaporators, pasteurizers, and aseptic equipment in dairies, breweries, wineries, beverage and food processing/packaging plants, egg processing/packaging equipment surfaces, and eating establishments. AcidiShine™ is effective as a sanitizer when solution is prepared in water of up to 300 hardness as CaCO<sub>3</sub>. This product has demonstrated greater than 99.999% reduction of organisms after 60 seconds exposure periods in the AOAC Germicidal and Detergent Sanitizing Action of Disinfectant study.

NOTE: FOR MECHANICAL OPERATIONS prepared use solution may not be reused for sanitizing but may be reused for other purposes such as cleaning.  
FOR MANUAL OPERATIONS Fresh sanitizing solutions must be prepared daily or more often if the solution becomes diluted or soiled.

**Pre-Treatment Prior to Sanitization of Food-Contact Surfaces** This product can be used as a pre-treatment on food contact prior to sanitization. For use dilute 2.1 – 13.4 oz of this product in 6 gallons of water, this will provide 160 – 1000ppm peroxyacetic acid. Let soak for 15 minutes and follow with a potable water rinse.

**SANITIZING FOOD CONTACT SURFACES:** This product may be used in Federally Inspected Meat, Poultry, Dairy, Egg, Beverage and Sea Food processing facilities as a sanitizer. Prior to sanitizing, remove gross food particles, then wash with a detergent solution, followed by a potable water rinse. Sanitize with concentration of 1.0– 3.3 oz AcidiShine™ dissolved in 6 gallons of water (0.14% -0.5% v/v concentration, or 75-250 ppm active peroxyacetic acid). At this dilution AcidiShine™ is effective against *Staphylococcus aureus*, *Escherichia coli*, *Salmonella enterica*, *Pseudomonas aeruginosa*, *Campylobacter jejuni* and *Listeria monocytogenes*. Use immersion, coarse spray or circulation techniques as appropriate to the equipment. All surfaces should be exposed to sanitizing solution for a period of at least 60 seconds or more if specified by a governing code. Drain excess solution. Do not rinse.

### **SANITIZATION OF CONVEYORS AND EQUIPMENT FOR MEAT, POULTRY, SEAFOOD, FRUIT, NUTS AND VEGETABLES:**

AcidiShine™ is effective against the gram negative and gram positive organisms *Staphylococcus aureus*, *Escherichia coli*, *Salmonella enterica*, *Pseudomonas aeruginosa*, *Campylobacter jejuni* and *Listeria monocytogenes*.

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For use in the static or continuous sanitizing, washing or rinsing of conveyors, slices, saws, and equipment, apply a solution of this product using of 1.0– 3.3 oz per 6 gallons of water (0.14% - 0.5% v/v concentration, or 75-250 ppm active peroxyacetic acid). Apply sanitizer solution to the return portion of the conveyor or equipment using coarse spray or similar means of wetting or soaking surfaces, so as to affect draining and prevent puddling. Allow sanitizer to thoroughly wet surface for a minimum 60 seconds contact time. No rinse is needed.

**SANITIZING EATING, DRINKING AND FOOD PREP UTENSILS:** Remove gross food particles by a prescrape, a preflush, and, when necessary, a presoak treatment. Wash with a recommended detergent. Rinse with clean water. Sanitize using a solution of 1.0– 3.3 oz per 6 gallons of water (0.14%-0.5% v/v concentration, or 75-250 ppm active peroxyacetic acid). Immerse all utensils for at least 60 seconds or more if specified by a governing sanitary code. Drain excess solution.

**FOR USE IN DAIRIES:** Regular use of Acidishine™ on dairy farm equipment will prevent formation of milkstone and mineral stone on hard, non-porous surfaces and reduce microorganisms. On pre-cleaned hard non-porous surfaces, AcidiShine™ at a concentration of 1.0– 3.3 oz dissolved in 6 gallons of water (0.14% -0.5% v/v concentration, or 75-250 ppm active peroxyacetic acid), is effective against *Staphylococcus aureus*, *Escherichia coli*, *Salmonella enterica*, *Pseudomonas aeruginosa*, *Campylobacter jejuni* and *Listeria monocytogenes*.

#### **CONVENTIONAL AND ROBOTIC MILKING EQUIPMENT ACID RINSE AND SANITATION**

Step1. Pre-rinse milking equipment with potable water. Remove soil by a pre-flush or pre-scrape and when necessary, pre-soak treatment.

Step2. Clean milking equipment with a suitable detergent at manufacture's recommended temperature

Step3. Sanitize and acidify milking equipment after cleaning and prior to use with a solution of 1.0 – 3.3 oz of AcidiShine™ dissolved in 6 gallons of water to provide 75 – 250 ppm of peroxyacetic acid. Be sure the solution is in contact with food contact surfaces for at least 1 min. Thoroughly drain milking equipment. Do not post rinse.

#### **FLUSHING CONVENTIONAL and ROBOTIC MILKING CLAWS and/or LINERS**

For use through claws and liners between milking each cow. Helps reduce microorganisms in claws / liners.

Step 1: Thoroughly pre-rinse claws / liners with potable water.

Step 2: Flush claws / liners with a well-mixed solution of 1.0 – 3.3 oz. AcidiShine™ per 6 gallons of water. Allow at least 1 minute contact time. This solution provides 75 – 250 ppm of peroxyacetic acid.

Step 3: Thoroughly drain.

#### **GENERAL WASH DOWN**

For general cleaning of the milking parlor, use a well-mixed solution containing 2.1 – 13.4 oz. AcidiShine™ per 6 gallons of water. Thoroughly hose down all surfaces.

#### **SANITIZING NON FOOD CONTACT SURFACES**

AcidiShine™ can be used in Federally Inspected Meat, Poultry, Dairy, Egg, Beverage and Sea Food processing facilities as a sanitizer. Prior to sanitizing, remove gross food particles, then wash with a detergent solution, followed by a potable water rinse. Sanitize with concentration of 2.1 – 13.4 oz AcidiShine™ dissolved in 6 gallons of water (0.3% -1.9% v/v concentration, or 160 - 1000 ppm active peroxyacetic acid). At this dilution AcidiShine™ is effective against *Staphylococcus aureus*, *Enterobacter aerogenes*, *Escherichia coli* O157:H7, *Salmonella enterica*, *Pseudomonas aeruginosa*, *Campylobacter jejuni* and *Listeria monocytogenes*.

Use immersion, coarse spray or circulation techniques as appropriate to the equipment. All surfaces should be exposed to sanitizing solution for a period of at least 5 min or more if specified by a governing code. Drain excess solution. Do not rinse.

**REVERSE OSMOSIS (RO), ULTRA FILTRATION (UF), NANO FILTRATION (NF), AND OTHER MEMBRANE CLEANING-SANITIZING** (*Not for use in California*): AcidiShine™ may be used in the sanitization of ultra filtration (UF), nano filtration (NF) and reverse osmosis (RO) membranes and other similar type membranes and their associated piping systems. This product may be added continuously in food, beverage, and drinking water systems for RO (reverse osmosis) systems only and in accordance with the instructions below. This product is not for use in kidney dialysis equipment. This product may not totally eliminate all vegetative microorganisms in RO or NF or UF membranes and their associated piping systems due to their construction or assembly, but can be relied upon to reduce the number of microorganism to acceptable levels when used as directed. Prior to using this product, consult with the membrane manufacturer to confirm compatibility of membranes with this peroxyacetic acid solutions.

**Batch Sanitation of NF, UF and RO Systems** (*Not for use in California*): Isolate incompatible equipment, such as carbon filters and ion exchangers. Clean system with an appropriate cleaner and follow with RO permeate water or potable water rinse. Remove mineral deposits if necessary with an acidic cleaner, and rinse as before. Fill entire system with water and add 2.1 – 13.4 oz AcidiShine™ dissolved in 6 gallons of water (0.3% -1.9% v/v concentration, or 160 - 1000 ppm active peroxyacetic acid). Recirculate the sanitizing solution through the piping and membrane system with cold water for 10 minutes minimum, or up to 4 hours, depending on the severity of cleaning to be done. Open and close process valves and solenoids to be sure all parts are in contact with the solution. For occasional intermittent feed, do not exceed 100 ppm active peroxyacetic acid, which equals 1.3 oz of this product per 6 gallons of feed water. Do not use the intermittent feed method for on-line use for potable water or direct food contact systems. Rinse the system with RO permeate or potable water, until residual hydrogen peroxide concentration is below 1 ppm.

**RO Continuous or Intermittent Addition** (*Not for Use in California*): For continuous addition methods for RO system, use 2- 5 ppm active peroxyacetic acid, which equals 2.0 – 4.9 oz AcidiShine™ per 450 gallons of process water. For occasional intermittent feed, do not exceed 100 ppm active peroxyacetic acid, which equals 1.3 oz. of this product per 6 gallons of feed water. Do not use the intermittent feed method for on-line use in potable water or direct food contact systems.

## **FOAM SANITIZING**

**FOAM SANITIZING OF FOOD AND NON-FOOD CONTACT SURFACES** (*Not for Use in California*): As an adjunct to decaling and sanitizing procedures, AcidiShine™ may be added to a foam additive, and foamed on environmental or equipment surfaces using conventional foam-generating equipment. The resultant foam blend can be used on equipment, floors, walls, ceilings, drains, etc. and should be left on surface for a minimum of 1 minute. Do not allow foam to dry onto the surface. On food contact surfaces apply a solution of 1.4– 3.3 oz of AcidiShine™ per 6 gallons of water (0.2% -0.5% v/v concentration, or 106-250 ppm active peroxyacetic acid). At this concentration, the product is effective against *Staphylococcus aureus* (ATCC 6538) and *Escherichia coli* (ATCC 11229). On non-food contact surfaces apply a solution of 2.1 – 13.4 oz AcidiShine™ dissolved in 6 gallons of water (0.3% -1.9% v/v concentration, or 160 - 1000 ppm active peroxyacetic acid). At this concentration, the product is effective against *Staphylococcus aureus* (ATCC 6538), *Enterobacter aerogenes* (ATCC 13048). Directions for foam mixing: Follow label instructions of approved foaming additives. PERAFOAM is the only approved foam-generating additive for use with AcidiShine™. When using PERAFOAM, blend 4 – 24 oz of PERAFOAM to 6 gal of solution. Do not use at elevated temperatures.



## **DISINFECTION**

### **NON-FOOD CONTACT HARD SURFACE DISINFECTION:**

**Combination Disinfection and Descaling:** AcidiShine™ disinfects as it descales in one operation. AcidiShine™ can be used to disinfect floors, walls and other hard nonporous surfaces such as tables, chairs, countertops, bathroom fixtures, sinks, shelves, racks, carts, refrigerators, coolers, tile, linoleum, vinyl, and glazed porcelain. Also use AcidiShine™ in veterinary clinics, industrial facilities, office buildings, recreational facilities, retail and wholesale establishments. AcidiShine™ is effective against *Staphylococcus aureus*, *Salmonella enterica*, *Listeria monocytogenes*, *Escherichia coli* O157:H7, *Avian Influenza virus*, Porcine epidemic diarrhea (PED) virus at 10<sup>6</sup> - 2000ppm of peroxyacetic acid (1.4 -27.2 oz per 6 gallon of water) in hard water (300 ppm CaCO<sub>3</sub>) and 5% organic soil loading on hard nonporous surfaces. For heavily soiled areas a pre-cleaning step is required, followed by a potable water rinse. Apply solution with a mop, cloth, sponge, brush, etc. or by soaking or immersion so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, and then remove solution and entrapped soil with a clean wet mop, cloth, wet vacuum pickup, or by draining. A rinse for non-food contact surfaces is optional. Prepare a fresh solution daily or when it becomes soiled or diluted.

### **ASEPTIC FOOD PROCESSING OPERATIONS**

AcidiShine™ may be used to achieve commercial sterility of equipment used in aseptic food processing applications.

Apply AcidiShine™ on the exterior and interior of food containers and closure systems (caps, seals, etc.). Apply up to 250 ppm of active peroxyacetic acid (0.5% v/v dilution of 3.3 oz per 6 gallons of water). Rinse containers with sterile water prior to filling with processed food; in lieu of a rinse, films may be mechanically stripped of excess sanitizing solution.

### **DISINFECTION OF ANIMAL AND POULTRY PREMISES, TRUCKS, COOPS, CRATES AND CALF**

**HUTCHES:** AcidiShine™ is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, and livestock quarters. When use as directed, AcidiShine™ is specifically designed to disinfect, deodorize, and clean inanimate, hard, surface such as walls, floors, sink tops, furniture, operating tables, kennel runs, cages and feeding equipment. In addition AcidiShine™ will deodorize those areas which are generally hard 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 microorganism.

**Disinfection of Poultry Premises:** 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 crates, Remove all liter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feedings and watering appliances. Clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.4%-1.5% v/v (2.6 – 10.5 oz per 6 gal of water) solution of AcidiShine™ for a period of 10 minutes (for a peroxyacetic concentration of 200 - 800 ppm). Scrub treated feed racks, troughs, automatic feeders, fountains and waterers with a detergent and rinse with potable water before reuse. Ventilate building, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried.

All treated equipment that will contact food, feed, or drinking water must be rinsed with potable water before reuse.

See your technical representative for specific recommendations for all cleaning and rinsing requirements.

### **Disinfection and Deodorizing of Animal Housing Facilities (Barns, Kennels, Hutches, Etc.):**

Remove animals and feed from premises, vehicles, and enclosures. Remove liter, waste matter from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering equipment. Clean all surfaces with soap or detergent and rinse with water. Saturate surfaces by applying a 0.4%-1.5% v/v

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(2.6 – 10.5 oz per 6 gal of water) solution of AcidiShine™ with a mop, brush or coarse spray (for a peroxyacetic concentration of 200 - 800 ppm). Wet all surfaces and allow to remain wet for 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as fork, shovels and scrapers used for removing litter and manure. Ventilate buildings and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

**CONTROL OF SLIME FORMING BACTERIA IN RECIRCULATING AND COOLING WATER SYSTEMS (COOLING TOWERS, EVAPORATIVE CONDENSERS, PATEURIZERS AND AIR WASHERS)** (*Not for use in California*): Severely fouled systems should be cleaned before adding AcidiShine™ solution. AcidiShine™ should be added in the system directly and not mixed with any other chemicals or additives. Discontinue the use of chlorine or bromine products prior to using this product. Contaminations with other chemicals could result in product decomposition. Add AcidiShine™ at a point in the system where uniform mixing and even distribution will occur. For slug treatment add 22 oz of product per 1000 gallons of process water (equivalent to 10 ppm of peroxyacetic acid). Repeat as necessary until microbiological control is evident. Thereafter, to maintain control, use 4.4- 20.0 oz of AcidiShine™ per 1000 gallons of process water (2 - 9 ppm active peroxyacetic acid) as a continuous or intermittent slug treatment. Continuous dosing methods usually require 2 - 5 ppm active peroxyacetic acid (4.4 - 11.0 oz per 1000 gallon of process water) to achieve adequate control.

**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 elimination 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 of peroxyacetic acid (0.4 – 1.5 oz of product per 100 gallons of water) and intermittent dosing methods require 7-14 ppm of peroxyacetic acid (1.5 oz – 3.0 oz of product per 100 gallons of water).

**Evaporated or Condensed Water:** This product may be used to treat SWEET or COW water (e.g. condensate of whey) collected from evaporated or condensing water systems in food or dairy plants. Typically, the dosing regimen would be using intermittent or continuous methods at 2-14 ppm as peroxyacetic acid (0.4 – 3.0 oz of product per 100 gallons of water).

**FRUIT AND VEGETABLE WATER TREATMENT** (*Not for use in California*): This product may be used to help control spoilage or decay-causing bacteria and fungi in water or ice that contacts raw unprocessed fruits and vegetables outside of a food processing facility. The commodity should be continuously sprayed, using coarse spray, or submerged using solution containing 1.1 oz AcidiShine™ per 20 gallons of water for a minimum contact time of 60 seconds. Adjust dose as necessary to maintain no more than 25 ppm active peroxyacetic acid. Remove excess water or allow to drain. If using the submersion method, replace with a fresh solution as necessary, or when it becomes visibly soiled. A final potable water rinse is not necessary.

### **NON PESTICIDAL CLEANING**

All surfaces must be disinfected in accordance with this label prior to fogging.

**FOGGING IN FILLING, PACKAGING, PROCESSING, STORAGE, WAREHOUSE, AND WORKER WELFARE ROOMS OR AREAS:** Prior to fogging remove food products and packaging materials from the room or area or carefully protect them. Fog desired areas using 1.6 – 13.1 oz per 6 gallons of water (0.23%-1.9% v/v concentration, or 120-1000 ppm active peroxyacetic acid) per 1000 cu. ft. of room area. Conventional corrosion resistant fogging devices are recommended. Vacate the area of all personnel prior to, during and after fogging until the hydrogen peroxide concentration is below 0.5

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ppm.

**To determine concentration of dilution refer to DeLaval Peracetic Acid Test Kit. Concentration of this product may also be monitored by conductivity. Consult your DeLaval Cleaning Solutions representative for use and set up instructions.**

#### **STORAGE AND DISPOSAL**

**Do not contaminate food or feed by storage or disposal or cleaning of equipment.**

**STORAGE:** Never return AcidiShine™ 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, douse container with cool water and dilute AcidiShine™ 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 quality, store at temperatures below 86°F.

**Procedure for Leak or Spill:** Stop leak if this can be done without risk. Shut off ignition sources: no flames, smoking, flares, or spark producing tools. Keep combustible and organic materials away. Flush spilled material with large quantities of water. Undiluted material should not enter confined spaces.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or Hazardous Waste representative at the nearest EPA Regional Office for guidance. If material has been spilled, an acceptable method of disposal is to dilute with at least 20 volumes of water followed by discharge into suitable treatment 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 should be contacted prior to disposal. [product name] which is to be discarded, should be disposed of as hazardous waste after contacting the appropriate local state or Federal agency to determine proper procedures.

**Container Disposal:**

*(For non-refillable containers equal to or less than 5 gal.)*

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Offer for recycling if available. If recycling is not available, puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

*(For non-refillable containers greater than 5 gal.)*

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Offer for recycling if available. If recycling is not available, puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. 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 tighten 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 tip 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.