



U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs
 Antimicrobials Division (7510P)
 1200 Pennsylvania Ave., N.W.
 Washington, D.C. 20460

EPA Reg. Number:

93585-1

Date of Issuance:

12/4/18

NOTICE OF PESTICIDE:

Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Microfex 1425

Name and Address of Registrant (include ZIP Code):

Chemlogic
 992 East Texas Ave
 Rayne, LA 70578

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Sincerely,

Zeno Bain, Product Manager 33
 Regulatory Management Branch I
 Antimicrobials Division (7510P)
 Office of Pesticide Programs

Date:

12/4/18

2. You are required to comply with the data requirements described in the DCI Order identified below:
 - a. Glutaraldehyde GDCI-043901-1668
 - b. Alkyl (50% C14, 40% C12, 10% C16) dimethylbenzyl ammonium chloride GDCI-069154-30906, GDCI-069104-30881, GDCI-069105-30882, GDCI-069175-30909

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Reevaluation Team Leader (Team 36): <http://www2.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobial-division>

3. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, “EPA Reg. No. 93585-1.”
4. Submit one copy of the final printed label for the record before you release the product for shipment.

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.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 09/21/2018

If you have any questions, you may contact Aline Heffernan at 703-347-8602 or via email at heffernan.aline@epa.gov.

Enclosure: Stamped Label

Dec 04, 2018

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 93585-1



Active Ingredient:	Glutaraldehyde-----	14.0%
	Alkyl (C14 50%, C12 40%, C16 10%)	
	dimethyl benzyl ammonium chloride-----	2.5%
Inert Ingredients:	-----	83.5%
		100.0%

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, oysters and shrimp. 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.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE DISPOSAL

Open dumping is prohibited. Pesticide wastes are toxic. 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 the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

PESTICIDE STORAGE

Microfex 1450 Sanitizer and Disinfectant is incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. Microfex 1450 Sanitizer and Disinfectant can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about 27° F (-3° C). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100° F (37.8° C) can be tolerated but the preferred maximum storage temperature is about 80° F (26.7° C).

A stainless-steel centrifugal pump is suggested for transfer service. Spiral-wound stainless steel with TEFLON® Polymer is suitable for gaskets and packing.

Handle in a well-ventilated area. If vapors are irritating to the nose or eyes special ventilation or respiratory protection (MSHA/NIOSH approved air purifying respirator equipped with an organic vapor cartridge) may be required.

The product in its undiluted form must not be used in a spray, fogging or aerosol application.

CONTAINER DISPOSAL

Option to use for labels on nonrefillable rigid containers of all sizes.

Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Option to use for labels on refillable rigid tote containers.

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning of the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean container before final disposal, empty contents into application equipment and triple rinse. Pour or pump rinsate into application equipment or rinsate collection system. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear: goggles or face shield, long sleeve shirt, long pants, shoes, socks, chemical -resistant gloves (such as butyl rubber) and chemical resistant apron.

User Safety Requirements:

Follow manufacturer's instructions for cleaning & maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Requirements:

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

NET CONTENTS: 55 GALLONS

NET WEIGHT: 470 LBS. / 213 kg

LOT NO.: 180727-10001

KEEP OUT OF THE REACH OF CHILDREN

DANGER

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Corrosive. Causes irreversible eye damage. Causes skin irritation. Harmful if inhaled. Harmful if swallowed. Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes asthmatic signs and symptoms in hyper-reactive individuals.

Do not get in eyes, on skin, on clothing. Avoid breathing vapor. Do not swallow. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

FIRST AID

IF IN EYES	<ul style="list-style-type: none"> Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. Call a poison control center or a doctor immediately for treatment advice
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control center or a doctor for treatment advice.
IF SWALLOWED	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. If the person is fully alert and cooperative, have the person rinse mouth with plenty of water. Have the patient drink 4 to 10 ounces (120-300 mL) of water or milk. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not attempt mouth rinse if the person has respiratory distress, altered mental status, or nausea and vomiting. Do not give anything by mouth to an unconscious person. See Note to Physician.
IF INHALED	<ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or a doctor for further treatment advice.

EMERGENCIES

IN CASE OF AN EMERGENCY endangering life or property involving this product call ChemTel (toll free): (800) 255-3924 (Outside US/Canada: call collect, +1 (813) 248-0585). Have product container or label with you when calling a poison control center or doctor or going for treatment.

Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

EPA Registration No.: *****

EPA Establishment No.: 9385

Another Exceptional Product From:



Chemlogic, Inc.

992 East Texas Avenue

Rayne, Louisiana 70578

(337) 334-8100

DIRECTIONS FOR USE

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

AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS/RECIRCULATING COOLING AND PROCESS WATER SYSTEMS

This product may be used only in industrial air washers and air washer systems which have mist-eliminating components. Microfex 1450 Sanitizer and Disinfectant should be added at the application rates described below to a water treatment system at a convenient point uniform mixing such as the basin area. Addition may be made intermittently (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with Microfex 1450 Sanitizer and Disinfectant. Under these conditions, blowdown should be discontinued for up to 24 hours, Microfex 1450 Sanitizer and Disinfectant can be used in industrial process water systems that contain ultra-filtration units and non-medical reverse osmosis membranes (when, approved for compatibility by the membrane manufacturer) and associated distribution systems.

INTERMITTENT (SLUG DOSE) METHOD

Initial Dose: When the system is noticeably fouled, apply 4.2 to 8.5 fluid ounces of Microfex 1450 Sanitizer and Disinfectant per 100 gallons of water in the system, Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 1.7 to 4.2 fluid ounces of Microfex 1450 Sanitizer and Disinfectant per 100 gallons of water in the system weekly or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, apply 4.2 to 8.5 fluid ounces of Microfex 1450 Sanitizer and Disinfectant per 100 gallons of water in the system.

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 0.8 to 4.2 fluid ounces of Microfex 1450 Sanitizer and Disinfectant per 100 gallons of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.

SERVICE WATER AND AUXILIARY SYSTEMS

Microfex 1450 Sanitizer and Disinfectant should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point that will allow for uniform mixing throughout the system.

HEAT TRANSFER SYSTEMS

(Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Sterilizers and Retorts, and Pasteurizers and Warmers)

Microfex 1450 Sanitizer and Disinfectant should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area, or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

INDUSTRIAL WASTEWATER SYSTEMS

(Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks)

Microfex 1450 Sanitizer and Disinfectant should be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 200 to 975 fluid ounces (1.6 to 7.6 gallons) (1,600 to 7,600 ppm product) of Microfex 1450 Sanitizer and Disinfectant per 1,000 gallons of wastewater or sludge.

PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS

Microfex 1450 Sanitizer and Disinfectant should be added to the paper making system at a point of uniform mixing such as the beaters, broke chest pump, save-all tank, or white-water tank.

Initial Dose: When the system is noticeably contaminated, add 1.5 to 9.0 lbs. of Microfex 1450 Sanitizer and Disinfectant per ton or 0.76 to 4.5 Kg of Microfex 1450 Sanitizer and Disinfectant per metric ton of pulp or paper (dry basis) as a slug dose. Repeat until control is achieved. Heavily fouled systems should be boiled out prior to initial treatment.

Subsequent Dose: When microbial control is evident, add 0.9 to 6.0 lbs. of Microfex 1450 Sanitizer and Disinfectant per ton or 0.46 to 3.0 Kg of Microfex 1450 Sanitizer and Disinfectant per metric ton of pulp or paper (dry basis) as a slug dose as necessary to maintain control.

WATER BASED COATINGS FOR PAPER AND PAPERBOARD

NOTE: For use in non-food contact coatings only.

Use from 0.3 to 1.8lbs. of Microfex 1450 Sanitizer and Disinfectant per 1,000 lbs. of dry powder or 0.3 to 1.8 Kg of Microfex 1450 Sanitizer and Disinfectant per metric ton of dry slurry to produce a concentration from 300 to 1,800 ppm as product (based on slurry solids) in the mixed slurry.

WATER FLOODS

Microfex 1450 Sanitizer and Disinfectant should be added to a water flood system at a point of uniform mixing.

Initial Treatment: When the system is noticeably contaminated, add 300 to 15,000 ppm Microfex 1450 Sanitizer and Disinfectant (0.3 to 14.5 gallons Microfex 1450 Sanitizer and Disinfectant per 1,000 gallons flood water). Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 60 to 15,000 ppm Microfex 1450 Sanitizer and Disinfectant (0.06 to 14.5 gallons Microfex 1450 Sanitizer and Disinfectant per 1,000 gallons flood water) to the system weekly, or as needed to maintain control.

FRACK FLUIDS

Not registered for this use In the State of California.

Microfex 1450 Sanitizer and Disinfectant reduces bacterial contamination and degradation of fracturing fluids and gels used in oil and gas well stimulations. Add Microfex 1450 Sanitizer and Disinfectant to the frac water storage tanks or directly into the well head injection pipeline as the water is being pumped down-hole.

Dose Range: Microfex 1450 Sanitizer and Disinfectant should be added at a rate of 60 to 17,900 ppm (3.5 to 172.5 gallons per 10,000 gallons) depending on the degree of bacterial fouling in the source water.

DRILLING, COMPLETION, AND WORKOVER FLUIDS

Microfex 1450 Sanitizer and Disinfectant should be added to a drilling fluid system at a point of uniform mixing such as the circulating mud tank.

Initial Treatment: Add 150 to 3,000 ppm Microfex 1450 Sanitizer and Disinfectant (0.6 to 12.2 gallons Microfex 1450 Sanitizer and Disinfectant per 100 barrels or fluid) to a freshly prepared fluid depending on the severity of contamination.

Maintenance Dosage: Maintain a concentration of 150 to 3,000 ppm Microfex 1450 Sanitizer and Disinfectant by adding 0.6 to 12.2 gallons of Microfex 1450 Sanitizer and Disinfectant per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

PACKER FLUIDS

Microfex 1450 Sanitizer and Disinfectant should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 150 to 1,800 ppm Microfex 1450 Sanitizer and Disinfectant (0.6 to 7.3 gallons Microfex 1450 Sanitizer and Disinfectant Per 100 barrels of fluid) to a freshly prepared fluid, depending on the severity of contamination. Seal the treated packer fluid in the wall between the casing and production tube.

OIL PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS

Not registered for this use In the State of California.

Microfex 1450 Sanitizer and Disinfectant should be added to an oil production or transmission line via direct injection. The application should be conducted to ensure maximum distribution of Microfex 1450 Sanitizer and Disinfectant throughout the entire internal pipeline surface by adding a sufficient amount of biocide to detect/measure a residual concentration at the back end of the pipeline system. Criteria for success of the treatment will be a reduction in bacterial counts and/or reduced corrosion rates. To facilitate application, it may be desirable to dilute the Microfex 1450 Sanitizer and Disinfectant with an appropriate solvent immediately before use. The concentration solvent should not fall below an active concentration range of 500 to 5,000 ppm based on the volume of water in the pipeline. Injections to the system should be weekly, or as needed to maintain control.

GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS

Microfex 1450 Sanitizer and Disinfectant should be added to a gas production or transmission line via direct injection. The application should be conducted to ensure maximum distribution of Microfex 1450 Sanitizer and Disinfectant throughout the entire internal pipeline surface by adding a sufficient amount of biocide to detect/measure a residual concentration at the back end of the pipeline system. Criteria for success of the treatment will be a reduction in bacterial counts and/or reduced corrosion rates. To facilitate application, it may be desirable to dilute the Microfex 1450 Sanitizer and Disinfectant with an appropriate solvent immediately before use. The concentration in the solvent should not fall below an active concentration range of 500 to 5,000 ppm based on the volume of water in the pipeline. Injections to the system should be weekly, or as needed to maintain control.

GAS STORAGE WELLS AND SYSTEMS

Individual injection wells should be treated with a sufficient quantity of Microfex 1450 Sanitizer and Disinfectant to produce a concentration of 1,500 to 15,000 ppm Microfex 1450 Sanitizer and Disinfectant when diluted by the water present in the formation. Injection should take place before gas is injected (during the summer). Injections should be repeated yearly, or as needed to maintain control. Individual drips should be treated with a sufficient quantity of Microfex 1450 Sanitizer and Disinfectant to produce a concentration of 600 to 6,000 ppm Microfex 1450 Sanitizer and Disinfectant when diluted by the water present in the drip. Injections should be repeated yearly, or as needed to maintain control.

HYDROTESTING

Water used to hydrotest pipelines or vessels should contain 300 to 12,000 ppm Microfex 1450 Sanitizer and Disinfectant (0.3 to 11.8 gallons Microfex 1450 Sanitizer and Disinfectant per 1,000 gallons water), depending on water quality and length of time the equipment will remain idle.

PIPELINE PIGGING AND SCRAPING OPERATIONS

Add Microfex 1450 Sanitizer and Disinfectant to a slug of water immediately following the scraper (ideally this water volume can be kept to a minimum and contained between the scraper and a trailing pig). Sufficient Microfex 1450 Sanitizer and Disinfectant should be added to produce a concentration of 0.3 to 3% (0.29 to 2.9 gallons Microfex 1450 Sanitizer and Disinfectant per 100 gallons water), depending on the length of the pipeline and the severity of biofouling.

DISINFECTING OR SANITIZING NON-FOOD CONTACT SURFACES, FARM, ANIMAL, AND POULTRY HOUSING FACILITIES AND EQUIPMENT.

Not registered for this use In the State of California.

DO NOT USE THIS PRODUCT ON FOOD OR FEED

Microfex 1450 Sanitizer and Disinfectant is suitable for use on a wide variety of surfaces including stainless steel, aluminum, painted concrete, plastic, and glazed tile.

For disinfection against the following pathogens:

Klebsiella pneumoniae, (ATCC 4352)	Escherichia coli, (ATCC 11229)
Pasteurella multocida, (ATCC 8747)	Salmonella enterica, (ATCC 10708)
Campylobacter jejuni, (ATCC BAA-1062)	Clostridium perfringens, (ATCC 13124)
Haemophilus paragallinarum, (ATCC 29545)	Mycoplasma hyopneumoniae, (ATCC 25934)
Mycoplasma gallisepticum, (ATCC 15302)	Staphylococcus aureus, (ATCC 6538)
Pseudomonas aeruginosa, (ATCC 15442)	Salmonella enterica, (ATCC 13076)

For disinfection against the following viruses:

Swine Influenza Virus (H1N1), (ATCCVR-99)
Porcine parvovirus (ATCC VR-742)
Avian Infectious Laryngotracheitis Virus, (SPAFAS 547316)
Porcine Respiratory Reproductive Syndrome Virus, (Arko Labs, Item Number MS036N04075)

Prepare disinfection solution according to the following procedure:

Disinfection solution preparation

1. Mix 1 fluid ounce of Microfex 1450 Sanitizer and Disinfectant per gallon of water (8 mls per liter) to produce a solution containing 0.13% total active ingredients.
2. For application against Porcine parvovirus, mix 2 fluid ounces of Microfex 1450 Sanitizer and Disinfectant per gallon of water (16 mls per liter), a 1:64 dilution of the product.
3. Apply by sponge, mop, spray, fogging or immersion depending upon the surface to be disinfected.
4. The surface must remain visibly wet for at least 10 minutes.
5. Fresh solution should be prepared daily or more often if the solution becomes diluted or soiled.

For sanitization against the following pathogens:

Klebsiella pneumoniae, (ATCC 4352)	Salmonella choleresuis, (ATCC 10708)
Staphylococcus aureus, (ATCC 6538)	Pseudomonas aeruginosa, (ATCC 15442)

For sanitization against the following viruses:

Infectious bursal disease (Infectious bursa; disease, Lukert strain)	SARS-associated coronavirus, (SARS-CoV, ZeploMetrix)
Avian influenza (H6N2 and H5N1), (ATCC VR-799)	Porcine circovirus, (American Biotest Laboratories)

Prepare sanitizing solution according to the following procedure:

Sanitizing solution preparation

1. Mix 0.45 to 1.8 fluid ounces of Microfex 1450 Sanitizer and Disinfectant per gallon of water (3.5 to 14.1 mls per liter) to produce a solution containing 0.06 to 0.24% total active ingredients.
2. For application against Porcine circovirus, mix 0.9 to 2.2 fluid ounces of Microfex 1450 Sanitizer and Disinfectant per gallon of water (6.9 to 17.3 mls per liter) to produce a solution containing 0.12 to 0.293% total active ingredients.
3. Apply by sponge, mop, spray, fogging or immersion depending upon the surface to be sanitized.
4. The surface must remain visibly wet for at least 10 minutes..
5. Fresh solution should be prepared daily or more often if the solution becomes diluted or soiled.

Farm Equipment and Animal Housing Buildings

(Poultry & turkey grow-out houses, laying houses, swine production and housing, barns and large animal buildings)

1. Remove all poultry and other animals and feed from the premises. Remove all portable equipment and empty all feeders and water troughs. If not removed, all treated feeders and waterers must be thoroughly rinsed with potable water prior to re-use.
2. Remove all litter and manure from floors and other surfaces. Remove gross filth and soil deposits from surfaces prior to treatment. Pre-clean surfaces with a suitable detergent and rinse with water.
3. Prepare either disinfection or sanitizing solution depending upon the organisms being treated by mixing the appropriate amount of Microfex 1450 Sanitizer and Disinfectant with water. Refer to solution preparation above.
4. Using suitable commercially available equipment, saturate all surfaces with the prepared solution. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
5. Surface must remain visibly wet for at least 5 minutes for sanitization or 10 minutes for disinfection.
6. Ventilate enclosed spaces.
7. Do not repopulate with poultry or other animals or use equipment until treatment has been absorbed or dried.

Hatchers, Setters, and Chick Processing Facilities

Not for treatment of hatchers which contain chicks/eggs.

1. For disinfection or sanitizing of environmental surfaces prior to introduction of eggs: Remove all animals and feed from premises/vehicles and enclosures.
2. Clean out feathers, fluff, or other debris. Remove gross filth and soil deposits from surfaces prior to treatment. Pre-clean surfaces with a suitable detergent and rinse with water.
3. Prepare either disinfection or sanitizing solution depending upon the organisms being treated by mixing the appropriate amount of Microfex 1450 Sanitizer and Disinfectant with water. Refer to solution preparation above.
4. Thoroughly saturate all surfaces with the prepared solution. Immerse all hatchers, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
5. Surface must remain visibly wet for at least 5 minutes for sanitization or 10 minutes for disinfection.
6. Ventilate thoroughly before reuse.
7. **Note:** For treatment of air and surfaces in high humidity hatchers and setters with water spray cooling: Fog or atomize this solution into setters or hatchers, using appropriate application equipment. Fogging of poultry houses should only be done in such a way that the operator is outside the poultry house when applying the fog. Wait at least 3 hours before re-entry after application.
8. **Note:** For treatment of air and surfaces in low humidity hatchers with chilled coil cooling: Fog or atomize this product using appropriate application equipment. Fogging of poultry houses should only be done in such a way that the operator is outside the poultry house when applying the fog. Wait at least 3 hours before re-entry after application.

Trays, Racks, Carts, Chick Boxes, Cages and Other Hand Surfaces

1. Remove all filth and heavy debris from surfaces by scraping or washing.
2. Prepare either disinfection or sanitizing solution depending upon the organisms being treated by mixing the appropriate amount of Microfex 1450 Sanitizer and Disinfectant with water. Refer to solution preparation above.
3. Apply by spraying or immersion and allow to drain and air-dry. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
4. Surface must remain visibly wet for at least 5 minutes for sanitization or 10 minutes or for longer for disinfection.
5. Ventilate enclosed spaces.
6. Do not repopulate with poultry or other animals or use equipment until treatment has been absorbed or dried.

Trucks and other Vehicles

1. Remove all filth and heavy debris from surfaces by scraping or washing.
2. Prepare either disinfection or sanitizing solution depending upon the organisms being treated by mixing the appropriate amount of Microfex 1450 Sanitizer and Disinfectant with water. Refer to solution preparation above.
3. Apply by spraying or immersion and allow to air -dry.
4. Surface must remain visibly wet for at least 5 minutes for sanitization or 10 minutes or for longer for disinfection.
5. Ventilate enclosed spaces.
6. Do not repopulate with poultry or other animals or use equipment until treatment has been absorbed or dried.

DISINFECTING OR SANITIZING NON-FOOD CONTACT SURFACES, INDUSTRIAL EQUIPMENT AND BUILDINGS

Not registered for this use In the State of California.

1. Remove all heavy filth and soil deposits from surfaces using a suitable cleaner.
2. Prepare either disinfection or sanitizing solution by mixing the appropriate amount of Microfex 1450 Sanitizer and Disinfectant with water. Refer to solution preparation above.
3. Using suitable commercially available equipment, saturate all surfaces with the prepared solution. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
4. Surface must remain visibly wet for at least 5 minutes for sanitization or 10 minutes or for longer for disinfection.
5. Ventilate enclosed spaces.
6. Do not repopulate with poultry or other animals or use equipment until treatment has been absorbed or dried.