



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Cheryl Woodward, Regulatory Specialist  
Thor Specialties, Inc./Thor GmbH  
50 Waterview Drive  
Shelton, CT 06484

OCT 30 2013

Subject: Label Amendment  
Product Name: Acticide LG-F  
EPA Registration Number: 67071-1  
Amendment Application Date: August 16, 2013  
EPA Received Date: August 20, 2013

Dear Ms. Woodward,

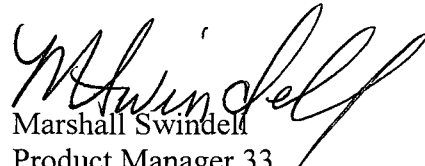
The application referred to above, submitted under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable under FIFRA Section 3(c)(5). The agency has no objection to clarifying existing use categories.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. The next label printing of this product must use this labeling unless subsequent changes have been approved. You must submit one (1) 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. Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3 (c)(5) and Section 4 uses when the Agency requires all registrants of similar products to submit such data.

Submit and or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) and section 4 uses when the agency requires all registrants of similar products to submit such data.

If you have any questions concerning this letter, please contact Amaris Johnson at [johnson.amaris@epa.gov](mailto:johnson.amaris@epa.gov) or call (703) 305-9542.

Sincerely,



Marshall Swindell  
Product Manager 33  
Regulatory Management Branch 1  
Antimicrobials Division (7510P)  
Office of Pesticide Programs



Label # 001-0 V002 - 08/16/2013

# ACTICIDE® LG-F

## Precautionary Statements:

### Hazards to Humans and Domestic Animals

#### DANGER

CAUSES IRREVERSIBLE EYE DAMAGE. HARMFUL IF ABSORBED THROUGH SKIN. HARMFUL IF SWALLOWED. DO NOT GET IN EYES OR ON CLOTHING. AVOID CONTACT WITH SKIN. PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT MAY CAUSE ALLERGIC REACTION IN SOME INDIVIDUALS. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

Mixers, loaders, and others exposed to product must wear the following Personal Protective Equipment (PPE):

- long-sleeve shirt and long pants
- rubber gloves and apron
- shoes plus socks
- protective eyewear.

Follow manufacturer's instructions for cleaning / maintaining PPE. If there are 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 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. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic plants, fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public 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 sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

#### DIRECTIONS FOR USE

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

Industrial microbiocide for use in water treatment / water processing systems, oil field injection waters, paper slime control, metal working fluids, adhesives, tackifiers, hydraulic fluids, dispersed pigments, metal cleaning fluids, building materials, polymer lattices, paints and coatings, aqueous compositions, and in Household Consumer, Industrial, Janitorial Products READ AND FOLLOW THE DIRECTIONS FOR USE ON THE ACCOMPANYING INFORMATION SHEET.

Not approved for use in the State of California

**UN 3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. [mixture containing 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one (3:1)], 8, PG-II**

Batch:

Under the Pesticide Act as amended, this pesticide, registered under EPA Reg. No. 67071-1

#### ACTIVE INGREDIENTS:

- 5-Chloro-2-methyl-4-isothiazolin-3-one ..... 1.11%
  - 2-Methyl-4-isothiazolin-3-one ..... 0.37%
- OTHER INGREDIENTS: ..... 98.52%
- TOTAL: ..... 100.00%

## KEEP OUT OF REACH OF CHILDREN DANGER - PELIGRO

See Side panel for additional precautionary statements

#### FIRST AID

- If in Eyes:**
  - > Hold eye open and rinse slowly and gently with water for 15-20 minutes.
  - > Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
  - > Call a poison control center or doctor for treatment advice.
- If Swallowed:** > Call a poison control center or doctor immediately for treatment advice.
  - > Have person sip a glass of water if able to swallow.
  - > Do not induce vomiting unless told to do so by the poison control center or doctor.
- If on Skin:**
  - > Take off contaminated clothing.
  - > Rinse skin immediately with plenty of water for 15-20 minutes.
  - > Call a poison control center or doctor for treatment.
- If inhaled:**
  - > Move person to fresh air.
  - > If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
  - > Call a poison control center or doctor for further treatment advice.

Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.

**For Transportation / Spill Emergency:**  
**Call Chemtrec at 1-800-424-9300**

**EPA Reg. No. 67071-1 EPA Est. No. 67071-DEU-001**

Manufactured By/For: Thor GmbH

D-67346 Speyer, Germany  
Tel. (06232) 6360

U.S. Office:  
Thor Specialties, Inc.  
50 Waterview Drive; Shelton, CT 06484 USA  
Tel. (203) 516-6980

FOR: EPA Est. No. 67071-MEX-001  
Manufactured By:  
Thor Químicos de México SA de CV;  
Autopista Mex-Qro Km 182; Pedro Escobedo,  
Querétaro, México. Tel. (448)2752200

Manufactured For: Thor GmbH

Thor Specialties, Inc.  
50 Waterview Drive; Shelton, CT 06484 USA  
Tel. (203) 516-6980

**ACCEPTED**

OCT 30 2013

#### PHYSICAL AND CHEMICAL HAZARD

This product is corrosive to mild steel.

#### STORAGE AND DISPOSAL

This product (pH 3.0) is corrosive to mild steel.

**PESTICIDE STORAGE:** Do not store or transport in unlined metal containers. Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.  
**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. If waste 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.

#### CONTAINER DISPOSAL

Non-refillable container. Do not reuse or refill this container. Triple rinse container promptly after emptying. Triple rinse as follows: [For containers < 5 gallons in size] - 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 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. [For containers > 5 gallons in size] - 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. Turn the container over onto its other 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

#### OR

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, triple rinse container promptly after emptying. Triple rinse as follows: [For containers < 5 gallons in size] - 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 1/4 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 this procedure two more times. [For containers > 5 gallons in size] - 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. Turn the container over onto its other 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

#### GENERAL: CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES.

#### CONDITIONS OF SALE AND WARRANTY

Thor GmbH warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. THOR GMBH MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. Handling, storage and use of the product by Buyer or User are beyond the control of Thor GmbH and Seller. Risks such as ineffectiveness or other unintended consequences resulting from, but not limited to, failure to follow label directions will be assumed by the Buyer or User. IN NO CASE WILL THOR GMBH OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

Net Contents (pounds):

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# ACTICIDE® LG-F INFORMATION SHEET



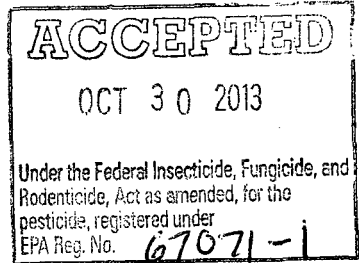
**THIS ACTICIDE® LG-F INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT OF ACTICIDE® LG-F**

## DIRECTIONS FOR USE

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

Typical applications and suggested range of use concentrations based on total weight of product are as follows:

<p><b>INDUSTRIAL RECIRCULATING WATER COOLING TOWERS</b></p> <p>ACTICIDE® LG-F microbiocide is recommended for the control of bacteria, algae and fungi.</p> <p>ACTICIDE® LG-F microbiocide should be added to the tower basin or some other point to ensure uniform mixing.</p> <p>For noticeably fouled systems use an initial dose of 1.25 to 7.5 lb ACTICIDE® LG-F per 1000 gallons of water. Repeat if necessary to achieve control.</p>	<p><b>0.3 – 1.86 LB per 1000 GAL of water weekly or as needed for maintenance</b> (35 to 220 ppm ACTICIDE® LG-F)</p>
<p><b>AIR WASHER SYSTEMS / *PAINT SPRAY BOOTHS</b></p> <p>For use only in industrial air washing systems that maintain effective mist eliminating components.</p> <p>Add to the air washer sump or chill water sump to ensure uniform mixing, for the control of bacteria, fungi and algae. A repeat treatment may be needed depending on the severity of contamination.</p> <p><i>*Not approved for this use in the State of California</i></p>	<p><b>0.3 – 7.5 LB per 1000 GAL of water</b> (35 to 900 ppm ACTICIDE® LG-F)</p>
<p><b>OIL FIELD INJECTION WATERS</b></p> <p>For control of slime-forming and sulfate reducing bacteria in oil and gas field water systems including enhanced recovery injection fluids and drilling fluids.</p> <p>An initial dose of 57 to 115 lb ACTICIDE® LG-F per 1000 barrels of water (162 to 324 ppm ACTICIDE® LG-F) may be used until control is achieved. This product may be used for terrestrial and off-shore oil drilling muds and packer fluids.</p>	<p><b>23 – 58 LB (2.8 to 6.9 GAL) per 1000 barrels of water weekly or as needed</b> (66 to 165 ppm ACTICIDE® LG-F)</p>
<p><b>PAPER MILLS</b></p> <p>For the control of bacterial and fungal slime in the production of paper. ACTICIDE® LG-F should be added to a point such as the Beater or Hydropulper to ensure uniform mixing.</p>	<p><b>0.45 – 1.5 LB per TON (dry basis) of pulp or paper, as a slug dose</b></p>



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# ACTICIDE® LG-F INFORMATION SHEET



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## DIRECTIONS FOR USE

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### INDUSTRIAL RECIRCULATING CLOSED LOOP WATER COOLING SYSTEMS AND PROCESS WATER SYSTEMS

To maintain control of bacteria, fungi and algae, add to the reservoir, recirculating line or some other point in the system to ensure uniform mixing.

**0.3 – 1.86 LB per 1000 GAL of water in the system weekly**

For noticeably fouled systems an initial treatment with 1.25 to 7.5 lb of ACTICIDE® LG-F per 1000 gallons of water may be needed depending on the severity of the fouling.

### BREWERY PASTEURIZERS AND CAN WARMER SYSTEMS

To maintain control of bacteria, algae and fungi.

**0.3 – 1.86 LB per 1000 GAL of water in the system weekly or as needed**

For noticeably fouled systems an initial treatment with 1.25 to 7.5 lb ACTICIDE® LG-F per 1000 gallons of water may be needed depending on the severity of the fouling.

### ULTRA FILTRATION UNITS, such as REVERSE OSMOSIS SYSTEMS

ACTICIDE® LG-F microbiocide is recommended for the control of bacteria and fungi in ultra filtration units, such as reverse osmosis systems.

**10 – 333 ppm ACTICIDE® LG-F**

Add into industrial ultra filtration or reverse osmosis systems by either continuous feed or periodic injection. Compatibility of ACTICIDE® LG-F microbiocide with reverse osmosis membranes should be confirmed with membrane manufacturers.

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For the control of bacteria and fungi in carbon beds.

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**10 – 333 ppm ACTICIDE® LG-F**

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For periodic membrane cleaning.

Badly fouled systems should be cleaned before treatment is begun.

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**0.4 – 1.0 LB per 120 GAL of cleaning solution**

# ACTICIDE® LG-F INFORMATION SHEET



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## DIRECTIONS FOR USE

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<b>INDUSTRIAL WASTEWATER TREATMENT SYSTEMS AND SEWAGE SYSTEMS</b>	
ACTICIDE® LG-F microbiocide is recommended for the control of microbial biofilms, bacteria, fungi, and algae in industrial waste water treatment and sewage systems. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority.	
<b>INITIAL DOSE</b> When the system is noticeably fouled, apply ACTICIDE® LG-F as indicated. Repeat until control is achieved. Badly fouled systems should be cleaned before treatment is begun.	<b>1.26 – 7.46 LB or 19 – 113 FL OZ per 1000 GAL of water in the system</b> (148 to 883 ppm ACTICIDE® LG-F)
<b>SUBSEQUENT DOSE</b> When microbial control is evident, add ACTICIDE® LG-F weekly or as needed to maintain control.	<b>0.3 – 1.86 LB or 4.5 – 28 FL OZ per 1000 GAL of water in the system</b> (35 to 219 ppm ACTICIDE® LG-F)
<b>*INDUSTRIAL PROCESS WASH WATER</b>	
ACTICIDE® LG-F microbiocide is recommended for the control of bacteria and fungi in the storage of process wash waters. <i>*Not approved for this use in the State of California</i>	<b>0.05 – 0.30%</b> 0.5 – 3.0 LB per 1000 LB wash water
<b>PRESERVATIVE FOR METAL WORKING FLUIDS</b>	
ACTICIDE® LG-F microbiocide is recommended for the control of bacteria and fungi in aqueous metal working fluid solutions and emulsions. The preservative should be dispensed into the use dilution of the metal working fluid using a metering pump and uniformly dispersed throughout the system. For a noticeably fouled system use an initial dose of 64 to 160 fluid ounces (4 to 11 lb) per 1000 gallons of emulsion followed by subsequent maintenance dosage. A higher dosage rate and/or increased frequency of treatment may be required depending upon the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc.	<b>32 FL OZ (2 LB) per 1000 GAL of emulsion every 4 weeks</b>

# ACTICIDE® LG-F INFORMATION SHEET



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## DIRECTIONS FOR USE

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

<p><b>WATER-BASED HYDRAULIC FLUID PRESERVATION</b></p> <p>ACTICIDE® LG-F microbiocide is recommended as a preservative for use in the manufacture and use of high water-based hydraulic fluids and invert emulsion hydraulic fluids typically prepared by emulsifying 40% by volume water in 60% by volume of mineral oil using an oil soluble emulsifying agent.</p> <p>For a noticeably fouled system use an initial dose of 150 to 250 fluid ounces (10 to 17 lb) per 1000 gallons fluid to be followed by subsequent maintenance dosage. A higher dosage range and/or increased frequency of treatment may be required depending upon rate of dilution of the preservative with make-up fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc.</p>	<p><b>120 to 150 FL OZ (8 to 10 LB) per 1000 GAL of fluids every 8 weeks</b></p>
<p><b>METAL CLEANING FLUID PRESERVATION</b></p> <p>ACTICIDE® LG-F microbiocide is recommended as a preservative for use in the manufacture and use of alkaline, acid and emulsion based metal cleaning fluids typically used in electroplating, phosphatizing, galvanizing and general metal cleaning operations.</p> <p>The preservative should be dispensed into the use-dilution metal cleaning fluid using a metering pump and uniformly dispersed throughout the system.</p> <p>For addition to a metal cleaning concentrate, add ACTICIDE® LG-F microbiocide at a level to ensure that the final use-dilution fluid will contain 560 to 2250 ppm product. A higher dosage rate and/or increased frequency of treatment may be required depending upon the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc.</p>	<p><b>For direct addition to a fouled system:</b></p> <p><b>72 to 290 FL OZ (5 to 20 LB) per 1000 GAL of use-dilution metal cleaning fluid every 3 to 4 weeks (560 to 2250 ppm ACTICIDE® LG-F)</b></p>

# ACTICIDE<sup>®</sup> LG-F

## INFORMATION SHEET



**THIS ACTICIDE<sup>®</sup> LG-F INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT OF ACTICIDE<sup>®</sup> LG-F**

### DIRECTIONS FOR USE

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

#### PRESERVATIVE FOR ADHESIVES AND TACKIFIERS

ACTICIDE<sup>®</sup> LG-F microbicide is recommended as an in-container preservative for the control of bacteria and fungi in water soluble and water dispersed adhesives such as animal glues, vegetable glues, natural rubber latices, polyvinyl acetate, styrene-butadiene and acrylic latices.

ACTICIDE<sup>®</sup> LG-F microbicide is recommended as a preservative for tackifiers derived from rosin and hydrocarbon resins.

For storage at high temperatures and humidity, or for highly susceptible systems, use up to 0.3% (3.0 LB per 1000 LBS formulation).

**0.05 – 0.165%**

0.5 – 1.65 LB per 1000 LBS formulation

#### DISPERSED PIGMENT PRESERVATION

ACTICIDE<sup>®</sup> LG-F microbicide is recommended for the control of bacteria and fungi in the manufacture and storage of dispersed pigments such as kaolin clay, montmorillonite clay, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate, dispersed colorants and kieselguhr used in paint and paper production.

**0.06 – 0.225%**

0.6 – 2.25 LB per 1000 LB fluid  
250 – 1020 grams per 453 KG of fluid

#### PRESERVATIVE FOR BUILDING MATERIALS

ACTICIDE<sup>®</sup> LG-F microbicide is recommended as an in-container preservative for the control of bacteria and fungi in building materials such as mastics, caulks, joint cements, spackling, grouting, and concrete admixtures.

**0.05 – 0.33%**

0.5 – 3.3 LB per 1000 LB of fluid

#### PRESERVATIVE FOR LATICES, POLYMER EMULSIONS OR SOLUTIONS

ACTICIDE<sup>®</sup> LG-F microbicide is recommended for the control of bacteria and fungi in the manufacture and storage of synthetic and natural polymer latices including: acrylics, styrene/butadiene, carboxylated styrene/butadiene, ethylene/vinyl acetate and biopolymers intended for industrial use such as xanthan gum, gum Arabic, guar gum, protein derived polymers, starches and casein derived polymers.

**Note:** To insure uniform mixing, add ACTICIDE<sup>®</sup> LG-F microbicide to latex or solutions slowly with agitation. The actual concentrations required will depend upon such factors as the specific substance to be treated, frequency of repeated microbial contamination expected and level of protection required.

**0.05 – 0.33%**

0.5 – 3.3 LB per 1000 LB emulsion  
227g – 1.5 KG per 454 KG of emulsion



# ACTICIDE<sup>®</sup> LG-F INFORMATION SHEET



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## DIRECTIONS FOR USE

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

### PRESERVATIVE FOR AQUEOUS COMPOSITIONS

ACTICIDE<sup>®</sup> LG-F microbicide is recommended as an in-container preservative for the control of bacteria and fungi in aqueous products such as:

- \*fiber glass sizing solutions
- aqueous emulsions and dispersions including
  - \*surfactants
  - \*stabilized oil/water emulsions
  - \*surface preparation compounds
  - \*foam control products
  - \*nutrient solutions
  - \*pesticide formulations.

**0.05 – 0.33%**

0.5 – 3.3 LB per 1000 LB aqueous product  
227 g – 1.5 KG per 454 KG of aqueous product

*\*Not approved for this use in the State of California*

### HOUSEHOLD CONSUMER, INDUSTRIAL, JANITORIAL PRODUCTS

For the control of bacteria and fungi in liquid and solid soaps, liquid and solid cleaners, liquid and solid detergents, liquid and solid laundry products, liquid and solid dishwashing detergents, waxes, polishes, liquid and solid fabric treatment/refreshers products, liquid and solid air fresheners/deodorizers, car care products, and other similar cleaners.

**0.04 – 0.15%**

0.4 – 1.5 LB per 1000 LB product  
180 – 680 grams per 453.6 KG product

ACTICIDE<sup>®</sup> LG-F may also be used for the control of bacteria and fungi in package utility products such as pre-moistened sponges and mops.

ACTICIDE<sup>®</sup> LG-F may also be used for the control of bacteria and fungi in solutions that are then put into/onto wet wipes for use in industrial, commercial, residential and household uses cited above.

Wet wipes containing a solution preserved with this product may not be used for personal care, as baby wipes, or for food contact.

#### CONCENTRATES:

ACTICIDE<sup>®</sup> LG-F microbicide may be added to those products formulated as concentrates which are in turn diluted for use at a level to ensure that the final use-dilution product will contain between 0.04 and 0.15% ACTICIDE<sup>®</sup> LG-F microbicide.

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# ACTICIDE® LG-F INFORMATION SHEET



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## DIRECTIONS FOR USE

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### PRESERVATIVE FOR PAINTS AND COATINGS

ACTICIDE® LG-F microbicide is recommended as an in-container preservative for the control of bacteria and fungi in water based coatings such as paper, wood coatings and paints used for architectural, product finishes and special purpose coatings.

For storage during high temperatures and humidity or for highly susceptible systems.

**0.05 – 0.165%**

0.5 – 1.65 LB per 1000 LB fluid  
227 – 750 grams per 454 KG fluid

**Up to 0.3%**

3.0 LB per 1000 LB fluid

\*Specifically for a wood coating, ACTICIDE® LG-F is recommended for the protection of wood and wood products such as landscape timbers, fences, posts, pilings, cross ties, decks and similar exterior structures, from mold and mildew. As a pressure treatment for mold and mildew control for southern yellow pine, hemlock, ponderosa pine and other soft woods. Thoroughly wet and allow to dry. A single application will afford protection for 12 weeks.

Under extreme mildew conditions. Thoroughly wet and allow to dry. A single application will afford protection for 12 weeks.

*\*Not approved for this use in the State of California*

1.9 – 6.6 LB per 1000 GAL preservative  
(29 – 101 FL OZ per 1000 GAL)

267 – 840 ppm of ACTICIDE® LG-F

13.25 – 26.5 LB per 1000 GAL wood treatment solution  
(1.6 – 3.2 GAL per 1000 GAL)

1600 – 3200 ppm of ACTICIDE® LG-F

### \*Special purpose coating uses

Use as a preservative for:

- Electrodeposition paints or solutions
- Photo/photoplatting solutions or coatings
- Fount (or fountain) solutions used in the printing process as a maintenance fluid/coating and as a special coating for printing plates
- Spin finish coatings for fibers.

The application/addition directions for these special purpose coating uses are:

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# ACTICIDE<sup>®</sup> LG-F INFORMATION SHEET



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## DIRECTIONS FOR USE

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

### \*PHOTO/PHOTOPATE PROCESSING, FOUNTAIN SOLUTIONS, AND INK/INK COMPONENTS

ACTICIDE<sup>®</sup> LG-F microbiocide is recommended for the control of bacteria, fungi, and biofilms in photo/photoplate processing chemicals, stabilizing solutions, fountain solutions, printing inks and ink components. ACTICIDE<sup>®</sup> LG-F is recommended for water-based printing inks such as flexographic, gravure, screen and ink jet types. ACTICIDE<sup>®</sup> LG-F is recommended for the control of bacteria and fungi in printing ink components such as resins, plasticizers, water soluble dyes, pigments, gelling agents, waxes, surfactants, and thickeners.

**0.1 – 0.33%  
by weight of total  
formulation**

#### CONCENTRATES:

ACTICIDE<sup>®</sup> LG-F should be added to concentrates at a level to ensure that the final use dilution of the product will contain 0.1 to 0.33% ACTICIDE<sup>®</sup> LG-F.

To ensure uniform mixing add ACTICIDE<sup>®</sup> LG-F microbiocide to the product slowly with agitation. The actual concentration required will depend upon the specific substance to be treated, frequency of repeated contamination expected and level of protection required.

*\*Not approved for this use in the State of California*

### \*ELECTRODEPOSITION

ACTICIDE<sup>®</sup> LG-F microbiocide is recommended as a tankside additive for the control of bacteria, fungi, and algae in re-circulating electrodeposition systems and associated rinse systems. Alternately, ACTICIDE<sup>®</sup> LG-F microbiocide may be added through the components of the electrodeposition paint prior to their addition to the electrodeposition system.

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## DIRECTIONS FOR USE

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

### Tankside Addition to Electrodeposition Systems:

ACTICIDE® LG-F microbiocide should be dispensed into the recirculating rinse system, ultrafilter permeate, or final distilled rinse system at a point to insure uniform mixing.

When the system is noticeably fouled, add 650 to 2245 ppm ACTICIDE® LG-F microbiocide (6.5 to 22.5 gallons per 10,000 gallons of fluid in the system). Repeat until control is achieved.

When microbial control is evident, add 320 to 1000 ppm ACTICIDE® LG-F microbiocide (3.2 to 10 gallons per 10,000 gallons of fluid in the system) weekly or as needed to maintain the system.

A change of frequency of treatment may be required depending on the rate of dilution of the preservative with the makeup fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc.

*\*Not approved for this use in the State of California*

### \*TREATMENT OF ELECTRODEPOSITION PAINT COMPONENTS

#### Initial Dose of Paint Components:

ACTICIDE® LG-F microbiocide should be added to the resin, pigment, or other component of the electrodeposition paint at a level to ensure that the final use-dilution fluid will contain 320 to 2245 ppm product.

#### Supplemental Tanked Dosing of Electrodeposition System:

If additional microbial control is necessary, ACTICIDE® LG-F microbiocide may be added to the electrodeposition system tankside to supplement the microbiocide incorporated through paint components.

If the system becomes noticeably fouled, add 650 to 2245 ppm ACTICIDE® LG-F microbiocide (6.5 to 22.5 gallons per 10,000 gallons of fluid in the system). Repeat until control is achieved.

When microbial control is evident, the system can be maintained by addition of 320 to 1000 ppm ACTICIDE® LG-F microbiocide (3.2 to 10 gallons per 10,000 gallons of fluid in the system) weekly or as needed.

*\*Not approved for this use in the State of California*

**NOTE:** Regardless of the manner of incorporation, the total level in the system should never exceed 2245 ppm ACTICIDE® LG-F or 22.5 gallons per 10,000 gallons of system fluid.