

67071-1

2/23/2012

1089

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



Office of Pesticide Programs

Thor GmbH
Landwehrstrasse 1
D-67346,
Speyer, Germany

FEB 23 2012

AGENT: Acti-Chem Specialties, Inc.
56 Quarry Road
Trumbull, CT 06611

Attention: Lynn P. Tordo, MS.
Regulatory Manager

Subject: ACTICIDE LG-F
EPA Registration No. 67071-1
Amendment Dated December 1, 2011

The amendment, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, to modify/clarify an existing use title, adjust recommended use levels for an existing use and correct use category to include use previously approved, is acceptable, provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3©(5) and sec. 4 when the Agency requires all registrants of similar products to submit such data.
2. Submit two (2) copies of final printed labeling before you release the product for shipment.

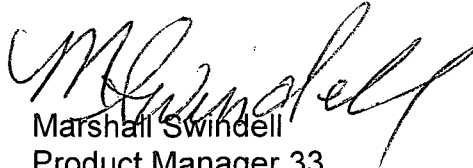
If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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EPA Registration No. 67071-1

A stamped copy of the "accepted" product labeling is enclosed for your records.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217.

Sincerely,



Marshall Swindell
Product Manager 33
Regulatory Management Branch 1
Antimicrobials Division (7510P)

Enclosure

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 latices, 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 this use in the State of California

with COMMENTS

EPA Letter Dated:

FEB 23 2012

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:	<ul style="list-style-type: none"> ➤ 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:	<ul style="list-style-type: none"> ➤ 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:	<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 doctor for treatment.
If Inhaled:	<ul style="list-style-type: none"> ➤ 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
<p>Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.</p>	
<p>For Transportation / Spill Emergency: Call Chemtrec at 1-800-424-9300</p>	

EPA Reg. No. 67071-1
Manufactured By/For:
Thor GmbH
D-67346 Speyer, Germany
Tel. (06232) 6380

EPA Est. No. 67071-DEU-001
U.S. Office:
Thor Specialties, Inc.
56 Quarry Road; Trumbull, CT 06611
Tel. (203) 365-6530

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. [mixture containing 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one (1:1)], UN 265, P+H

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 ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat 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 ¼ 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 ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat 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 ¼ 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.

Batch:	Mfg Date:	Net Contents (pounds):
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Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the use of this product registered under EPA Reg. No. 67071-1

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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.

INDUSTRIAL RECIRCULATING WATER COOLING TOWER: ACTICIDE® LG-F microbiocide is recommended for the control of bacteria, algae and fungi. It should be added to the tower basin or some other point to ensure uniform mixing. Add 0.3 to 1.86 lb of ACTICIDE® LG-F per 1000 gallons of water (35 to 220 ppm ACTICIDE® LG-F) weekly or as needed for maintenance. 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.

AIR WASHER SYSTEMS / *PAINT SPRAY BOOTHS: For use only in industrial air washing systems that maintain effective mist eliminating components. Add 0.3 to 7.5 lb ACTICIDE® LG-F to 1000 gallons of water (35 to 900 ppm ACTICIDE® LG-F) in 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. **Not approved for this use in the State of California*

OIL FIELD INJECTION WATERS: Add 23 to 58 lb (2.8 to 6.9 gallons) ACTICIDE® LG-F per 1000 barrels of water (66 to 165 ppm ACTICIDE® LG-F) weekly or as needed to maintain control of slime-forming and sulfate reducing bacteria in oil and gas field water systems including enhanced recovery injection fluids and drilling fluids. 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.

PAPER MILLS: Add 0.45 to 1.5 lb of ACTICIDE® LG-F per ton (dry basis) of pulp or paper produced as slug dose 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.

INDUSTRIAL RECIRCULATING CLOSED LOOP WATER COOLING SYSTEMS AND PROCESS WATER SYSTEMS: Add 0.3 to 1.86 lb of ACTICIDE® LG-F per 1000 gallons of water in the system weekly to maintain control of bacteria, fungi and algae in the reservoir, recirculating line or some other point to ensure uniform mixing. 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.

BREWERY PASTEURIZERS AND CAN WARMER SYSTEMS: Add 0.3 to 1.86 lb of ACTICIDE® LG-F per 1000 gallons of water in the system weekly or as needed to maintain control of bacteria, algae and fungi. 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

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. Add 10 - 333 ppm of ACTICIDE® LG-F microbiocide (0.15 - 5 ppm active ingredient) 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. For the control of bacteria and fungi in carbon beds, add 10 - 333 ppm of ACTICIDE® LG-F microbiocide (0.15 - 5 ppm active ingredient). For periodic membrane cleaning, add 0.4 - 1.0 lbs of ACTICIDE® LG-F microbiocide to every 120 gallons of cleaning solution (6 - 15 ppm active ingredient). Badly fouled systems should be cleaned before treatment is begun.

Information Sheet # 010(L) - 12/01/2010
Page 1 of 6

ACCEPTED
WITH COMMENTS
EPA Letter Dated:

FEB 23 2012

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pest
registered under EPA Reg. No. 67071-1

EPA Reg. No. 67071-1
Manufactured By/For:

Thor GmbH
D-67346 Speyer, Germany
Tel. (06232) 6360
Thor Specialties, Inc.
56 Quarry Road, Trumbull, CT
06611 USA
Tel. (203) 365-6530

U.S. Office:

5089

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.

INDUSTRIAL WASTEWATER TREATMENT SYSTEMS AND SEWAGE SYSTEMS: 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.

INITIAL DOSE: When the system is noticeably fouled, apply 148 – 883 ppm ACTICIDE® LG-F microbiocide (1.26 – 7.46 pound or 19 – 113 fluid ounce of ACTICIDE® LG-F per 1000 gallons of water in the system). Repeat until control is achieved. Badly fouled systems should be cleaned before treatment is begun.

SUBSEQUENT DOSE: When microbial control is evident, add 35 – 219 ppm ACTICIDE® LG-F microbiocide (0.3 – 1.86 pounds or 4.5 – 28 fluid ounces of ACTICIDE® LG-F per 1000 gallons of water in the system) weekly or as needed to maintain control.

PRESERVATIVE FOR METAL WORKING FLUIDS: ACTICIDE® LG-F microbiocide is recommended for the control of bacteria and fungi in aqueous metal working fluid solutions and emulsions. Add 32 fluid ounces (2 lb.) per 1000 gallons of emulsion every 4 weeks for maintenance of a non-fouled system. For a noticeably fouled system use an initial dose of 64 to 160 fluid ounces (4 to 11 lb.) per 1000 gallons emulsion followed by subsequent maintenance dosage above. 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. The preservative should be dispensed into the use dilution of the metal working fluid using a metering pump and uniformly dispersed throughout the system.

WATER-BASED HYDRAULIC FLUID PRESERVATION: 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. For the maintenance of a non-fouled system, use ACTICIDE® LG-F microbiocide at 120 to 150 fluid ounces (8 to 10 lb) per 1000 gallons fluids every 8 weeks. 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.

METAL CLEANING FLUID PRESERVATION: 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. For addition to a metal cleaning concentration, add ACTICIDE® LG-F microbiocide at a level to ensure that the final use-dilution fluid will contain 560 to 2250 ppm product (about 8 to 33 ppm active isothiazolones). For direct addition to a fouled system, add 72 to 290 fluid ounces (5 to 20 lb) of ACTICIDE® LG-F microbiocide to each 1000 gallons of use-dilution metal cleaning fluid every 3 to 4 weeks to provide 560 to 2250 ppm product (about 8 to 33 ppm active isothiazolones). A higher dosage range and/or increased frequency of treatment may be required depending upon rate of dilution of the preservative with the make-up fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc. The preservative should be dispensed into the use-dilution metal cleaning fluid using a metering pump and uniformly dispersed throughout the system. **Not approved for this use in the state of California*

ACCEPTED
with COMMENTS

Information Sheet # 010(L) 12/01/2011
Page 2 of 6

EPA Letter Dated:

FEB 23 2012

EPA Reg. No. 67071-1

Manufactured By/For: Thor GmbH
D-67346 Speyer, Germany
Tel. (06232) 6360
U.S. Office: Thor Specialties, Inc.
56 Quarry Road, Trumbull, CT
06611 USA
Tel. (203) 365-6530

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 67071-1

6049

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.

PRESERVATIVE FOR ADHESIVES AND TACKIFIERS: ACTICIDE® 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® LG-F microbicide is recommended as a preservative for tackifiers derived from rosin and hydrocarbon resins. Add 0.5 to 1.65 lb. ACTICIDE® LG-F microbicide to each 1000 lb. of fluid to provide 7 ppm to 25 ppm of active isothiazolone ingredients. A higher dosage rate providing up to 45 ppm active ingredient may be required for storage during extremely high temperatures and humidity.

DISPERSED PIGMENT PRESERVATION: ACTICIDE® 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 and kieselguhr used in paint and paper productions. Add 0.6 to 2.25 lb of ACTICIDE® LG-F (250 to 1020 grams) to each 1000 lb (453 kg) of fluid to provide 9 to 33 ppm active isothiazolones.

PRESERVATIVE FOR BUILDING MATERIALS: ACTICIDE® 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 and grouting. Add 0.5 to 1.65 lb of ACTICIDE® LG-F microbicide to each 1000 lb. of fluid to provide 7 ppm to 25 ppm active isothiazolones.

PRESERVATIVE FOR LATICES ACTICIDE® 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. Add 0.5 to 3.3 lb. (227 g to 1.5 kg) of ACTICIDE® LG-F microbicide to each 1000 lb. (454 kg) of emulsion to provide 7 ppm to 50 ppm active isothiazolones.

Note: To insure uniform mixing, add ACTICIDE® 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.

***PRESERVATIVE FOR AQUEOUS COMPOSITIONS:** ACTICIDE® 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 stabilized oil/water emulsions, surface preparation compounds, foam control products, nutrient solutions and pesticide formulations. ACTICIDE® LG-F may also be used for the control of bacteria and fungi in solutions that are then put into/onto wet wipes. Wet wipes containing a solution preserved with this product may not be used for personal care, as baby wipes, or for food or food contact surfaces. Add 0.5 to 3.3 lb. (227 g to 1.5 kg) of ACTICIDE® LG-F microbicide to each 1000 lb. (454 kg) of aqueous product to provide 7 ppm to 50 ppm active isothiazolones.

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

ACCEPTED
with COMMENTS
EPA Letter Dated:

Information Sheet # 010(L) - 12/01/2011
Page 3 of 6

FEB 23 2012

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 67071-1

EPA Reg. No. 67071-1
Manufactured By/For:

U.S. Office:

Thor GmbH
D-67346 Speyer, Germany
Tel. (06232) 6360
Thor Specialties, Inc.
56 Quarry Road, Trumbull, CT
06611 USA
Tel. (203) 365-6530

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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.

HOUSEHOLD CONSUMER, INDUSTRIAL, JANITORIAL-PRODUCTS ACTICIDE® LG-F is added at a level of 0.4 to 1.5 lb. (180 - 680 grams) to each 1000lb. (453.6 kilograms) of product to be protected to provide 6 to 22.5 ppm of active isothiazolinones. 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. ACTICIDE® 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® 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. ACTICIDE® LG-F microbiocide 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% to 0.15% ACTICIDE® LG-F microbiocide.

PRESERVATIVES FOR PAINTS AND COATINGS: ACTICIDE® LG-F microbiocide 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. Add 0.5 to 1.65 lb (227 to 750 grams) ACTICIDE® LG-F microbiocide to each 1000 lb (454 kg) of fluid to provide 7 ppm to 25 ppm active isothiazolone ingredients. A higher dosage rate providing up to 45 ppm active ingredients may be required for storage during extremely high temperatures and humidity.

*Specifically as 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, treat with 267 to 840 ppm of ACTICIDE® LG-F (4.0 to 12.4 ppm active isothiazolones), by adding 1.9 to 6.6 lb or 29 to 101 fluid ounces of ACTICIDE® LG-F per 1,000 gallons of preservative. Thoroughly wet and allow to dry. A single application will provide protection for 12 weeks. Under extreme mildew conditions, treat with 1600 to 3200 ppm (24 to 48 ppm active) by adding 13.25 to 26.5 lb or 1.6 to 3.2 gallons of ACTICIDE® LG-F for every 1,000 gallons of wood treatment solution. 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

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EPA Letter Dated:

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Under the Federal Insecticide,
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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.

***Special purpose coating uses:** Include use as a: <> preservative for electrodeposition paints or solutions, <> preservative for photo/photoplatin solutions or coatings, <> preservative in fount (or fountain) solutions used in the printing process as a maintenance fluid/coating and as a special coating for printing plates, and <> preservative in spin finish coatings for fibers. The application/addition directions for these special purpose coating uses are:

***ELECTRODEPOSITION:** ACTICIDE® 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® LG-F microbiocide may be added through the components of the electrodeposition paint prior to their addition to the electrodeposition system.

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). This will provide 10 to 33 ppm of active ingredients. Repeat until control is achieved. When microbial control is evident, add 320 to 1000 ppm ACTICIDE® LG-F (3.2 to 10 gallons per 10,000 gallons of fluid in the system) weekly or as needed to maintain the system. This will provide 5 - 15 ppm of active ingredient. 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 (5 - 33 ppm active ingredient).

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). This will provide 10 - 33 ppm of active ingredients. 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. This will provide 5 - 15 ppm of active ingredients.

**Not approved for this use in the state of California*

NOTE: Regardless of the manner of incorporation, the total active ingredient level in the system should never exceed 33 ppm (equivalent to 2245 ppm ACTICIDE® LG-F or 22.5 gallons per 10,000 gallons of system fluid).

ACCEPTED
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EPA Letter Dated:

Information Sheet # 010(L) - 12/01/2011 FEB 23 2012
Page 5 of 6

Under the Federal Insecticide,
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EPA Reg. No. 67071-1
Manufactured By/For:

Thor GmbH
D-67346 Speyer, Germany
Tel. (06232) 6360
Thor Specialties, Inc.
56 Quarry Road, Trumbull, CT
06611 USA
Tel. (203) 365-6530

U.S. Office:

9049

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.

***PHOTO/PHOTOPLATE PROCESSING, FOUNTAIN SOLUTIONS, AND INK/INK COMPONENTS:**
ACTICIDE® 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® LG-F microbiocide is recommended for water-based printing inks such as flexographic, gravure, screen and ink jet types. ACTICIDE® LG-F microbiocide 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. ACTICIDE® LG-F microbiocide should be added to achieve 0.1% to 0.33% by weight of total formulation (15 to 50 ppm active ingredient) ACTICIDE® LG-F microbiocide 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® LG-F (15 to 50 ppm active ingredient). To ensure uniform mixing add ACTICIDE® 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*

GENERAL ADVISORY STATEMENT

ACTICIDE® LG-F SHOULD 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 6-50 PPM ACTIVE ISOTHIAZOLONES, AS DESCRIBED ABOVE, EXCEPT FOR PAINTS AND COATINGS WHICH SHOULD BE AT 7 - 25 PPM AS DESCRIBED ABOVE.

ACCEPTED
with COMMENTS
EPA Letter Dated:
FEB 23 2012

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 67071-1