

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

SEP 1 3 2012

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Thor Specialties, Inc. 50 Waterview Drive Shelton, CT 06484

Attention: Lynn P. Tordo Regulatory Manager

Subject:

ACTICIDE LG-F

EPA Reg. No. 67071-1

Notification Letter Dated August 13, 2012

This letter acknowledges receipt of the Notification identified above submitted under the provisions of section 3(c)(9) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended and PR Notice 98-10. This Notification requests:

• The explanation of the asterisk (*) has been removed from the end of the metal cleaning fluid preservation use statement to indicate that this particular use is approved in the state of California

Based on a review of the submitted information, this notification is acceptable. This information has been made a part of your file.

Should you have any questions concerning this letter, please contact Elizabeth Hernandez at (703) 347-0241.

Sincerely,

Marshall Swindell

Product Manager (33)

Regulatory Management Branch 1 Antimicrobials Division (7510C)

PEPA	Environmenta	United States I Protection A ington, DC 20460	Agency	√	Registration Amendme Other	<u>†</u>		
		Application f	or Pesticide -	Section	İ			
Company/Product Nu	mber		2. EPA Produc	•		3. Proposed Classification		
7071-1 Company/Product (N	ama)	·	Marshall Sw	indell		✓ None Restrict		
hor GmbH / ACTI	-		33		•			
Name and Address o	f Applicant (Include ZIP C	ode)	6. Expedited	Reveiw.	. In accordance	e with FIFRA Section 3(c)(3		
hor GmbH, Landwehrstrasse 1, D-67346, Speyer, Germany I.S. Agent: Thor Specialties, Inc. 56 Quarry Road, Trumbull, CT 06611			to: EPA Reg. N	(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. 67071-1				
Check is	f this is a new address		Product Na	ACT	ICIDE LG-F	:		
			Section - II					
Amendment - Ex	•		Final p	orinted labe y letter da oo" Applic)		
Resubmission in response to Agency letter dated								
/ Notification - Explain below.			Other	Other - Explain below.				
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August 9, 2012

Mr. Marshall Swindell, Product Manager 33 Regulatory Management Branch I Antimicrobial Division, OPP (7510W) U.S. ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, NW Washington, DC 20460

Re:

Product:

ACTICIDE® LG-F, EPA Registration No. 67071-1

Notification of label change

Company: Thor GmbH;

US Agent: Thor Specialties, Inc

This is a notification and not subject to fees

Dear Mr. Swindell:

This label change notification is submitted by Thor Specialties, Inc., U.S. agent for Thor GmbH. notification of label change is as required by the State of California and per PR Notice 98-10 / 95-2.

The State of California requested that we submit this notification with regards to the qualifier "*not approved for use in the state of California".

The following modification has been made to the Information Sheet:

The explanation of the asterisk (*) has been removed from the end of the metal cleaning fluid preservation use statement to indicate that this particular use is approved in the state of California.

The attached material consists of the following:

Typo P. Tordo

- 1. Application Form for a Notification to modify the label.
- 2. Copy of ACTICIDE® LG-F label with changes marked (FOR REFERENCE ONLY)
- 3. Final Printed copy of proposed ACTICIDE® LG-F label

If you have any questions or need added information, please do not hesitate to contact me.

Sincerely,

Lynn P. Tordo, M.S.

Regulatory Manager

Enc.

Cc:

Geri Werdig, Pesticide Registration Associates

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

Wixers, loaders, and others exposed to product must wear the ollowing Personal Protective Equipment (PPE)

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

protective eyewear

ollow manufacturer's instructions for cleaning / maintaining PPE. If here are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry

Jser Safety Recommendations: users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toiler. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should thoroughly. Discard clothing or other absorbent materials that have remove PPE immediately after handling this product. Wash the As soon as possible, wash product's been drenched or heavily contaminated with this Then wash thoroughly and put on clean clothing. outside of gloves before removing. concentrate

ENVIRONMENTAL HAZARDS

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 the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. and aquatic been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying fish pesticide is toxic to aquatic plants, This:

DIRECTIONS FOR USE

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

metal cleaning fluids, building neaterials, ເວົ້າຈຳລາຍr latices, paints and coatings, *aqueous compositions, ຄາຕ in Household Consumer, Industrial, Janitorial Products <u>REND AND FOLLOW THE</u> DIRECTIONS FOR USE ON THE ACCOMPANYING INFROMATION 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

SHEET.
Not approved for this use in the State of California

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ACTIVE INGREDIENTS:

ACTICIDE® LG-F

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

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

See Side panel for additional precautionary statements FIRST AID

If in Eyes:	Mold 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:	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
	paison 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

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

Thor GmbH

50 Waterview Drive, Shelton, CT 06484 Thor Specialties, Inc. U.S. Office:

EPA Est. No. 67071-DEU-001

Tel. (203) 516-6980 D-67346 Speyer, Germany Tel. (06232) 6360

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

PHYSICAL AND CHEMICAL HAZARD

is corrosive to mild steel.

This product (pH 3.0) is corrosive to mild steel STORAGE AND DISPOSAL

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 or 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: Do not store or transport in unlined metal containers. Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

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] Then offer for recycling if for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and begins to drip. Repeat this procedure two more times. [For containers > 5 gallons Fill the container ¼ full with water. Replace and tighten closures. Tip container on Empty the remaining contents into application equipment or a mix tank and drain its side and roll it back and forth, ensuring at least one complete revolution, for 30 Empty the rinsate into application equipment or a mix tank or store rinsate for later tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow in size] - Empty the remaining contents into application equipment or a mix tank. available or puncture and dispose of in a sanitary landfill, or by other procedures recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix furn the container over onto its other end and tip it back and forth several times. seconds. Stand the container on its end and tip it back and forth several times. use or disposal. Repeat this procedure two more times. approved by state and local authorities.

inse container promptly after emptying. Triple rinse as follows: [For containers < 5 the responsibility of the person disposing of the container. Cleaning before refilling gallons in size] - Empty the remaining contents into application equipment or a mix lank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full seconds after the flow begins to drip. Repeat this procedure two more times. [For container for any other purpose. Cleaning of the container before final disposal is equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten is the responsibility of the refiller. To clean container before final disposal, triple Do not reuse this equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 containers > 5 gallons in size] - Empty the remaining contents into application with water and recap. Shake for 10 seconds. Pour rinsate into application Refillable container. Refill this container with pesticide only.

or by other procedures approved by state and local authorities.
GENERAL: CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES
FOR APPROVED ALTERNATIVE PROCEDURES. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or store rinsate for later use or disposal. Repeat this procedure two more times.

and forth several times. Empty the rinsate into application equipment or a mix tank

complete revolution, for 30 seconds. Stand the container on its end and tip it back

closures. Tip container on its side and roll it back and forth, ensuring at least one and forth several times. Turn the container over onto its other end and tip it back

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 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

Net Contents (pounds)

Mfg Date:

Batch:



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 a 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(L2) -- 08/09/2012 Page 1 of 6

EPA Reg. No. 67071-1

Manufactured By/For: Thor GmbH

D-67346 Speyer, Germany Tel. (06232) 63CC

U.S. Office:

Thor Specialties, Inc. 50 Waterview Drive, Shelton, CT 06484 USA

Tel. (203) 516-6980



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 $(0.3 - 1.86 \text{ pounds or } 4.5 - 28 \text{ fluid ounces of ACTICIDE}^®$ 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.

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Manufactured By/For: Thor GmbH

Thor GmbH Common D-67346 Speyer, Germany Tel. (06232) 6360 Thor Specialtiec, Inc. 50 Waterview Drive, Shelton, CT 06484 USA Tel. (203) 516-6980

U.S. Office:



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 microbiocide 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 microbiocide is recommended as a preservative for tackifiers derived from rosin and hydrocarbon resins. Add 0.5 to 1.65 lb. ACTICIDE® LG-F microbiocide 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 microbiocide 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 microbiocide is recommended as an incontainer 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 microbiocide to each 1000 lb of fluid to provide 7 ppm to 25 ppm active isothiazolones.

PRESERVATIVE FOR LATICES ACTICIDE® LG-F microbiocide 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 microbiocide 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 microbiocide 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 microbiocide 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 microbiocide 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

EPA Reg. No. 67071-1

Manufactured By/For: Thor GmbH

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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/refresher 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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D-67346 Speyer, Germany Tel. (06232) 63CC Thor Specialties, Inc.

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U.S. Office:



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/photoplating 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).

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Manufactured By/For: Thor GmbH

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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.

*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, waves, 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.

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

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