

67071-5

10/11/2012

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



United States
Environmental Protection
Agency

Office of Pesticide Programs

OCT 11 2012

Thor GmbH
Landwehrstrasse 1
D-67346,
Speyer, Germany

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

Attention: Lynn P. Tordo, MS.
Regulatory Manager

Subject: ACTICIDE 14F
EPA Registration No. 67071-5
Notification Dated September 4, 2012

This will acknowledge receipt of your notification, submitted under the provisions of FIFRA Section 3(c)(9).

Proposed Notification

- Label Changes as required by the State of California and per PR Notice 98-10

General Comments

Based on a review of the submitted material, the following comments apply:

The Notification is in compliance with PR Notice 98-10 and is acceptable. This information has been added to your file.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6341.

Sincerely,

A handwritten signature in cursive script, appearing to read "M. Swindell".

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

 United States Environmental Protection Agency Washington, DC 20460	<input type="checkbox"/> Registration	OPP Identifier Number
	<input type="checkbox"/> Amendment	
	<input checked="" type="checkbox"/> Other	

Application for Pesticide - Section I

1. Company/Product Number 67071-5	2. EPA Product Manager Marshall Swindell	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Thor GmbH / ACTICIDE 14F	PM# 33	
5. Name and Address of Applicant (Include ZIP Code) Thor GmbH, Landwehrstrasse 1, D-67346, Speyer, Germany U.S. Agent: Thor Specialties, Inc. 50 Waterview Drive, Shelton CT 06484 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. <u>67071-5</u> Product Name <u>ACTICIDE 14F</u>

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of label change as required by the State of California and per PR Notice 98-10 / 95-2. This notification is consistent with the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container 5, 55, and 265 gallons		5. Location of Label Directions <input checked="" type="checkbox"/> on labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Lynn P. Tordo, M.S.	Title Regulatory Manager	Telephone No. (Include Area Code) 203-516-6980
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Regulatory Manager	
4. Typed Name Lynn P. Tordo, M.S.	5. Date Sept. 4, 2012	



September 4, 2012

Mr. Marshall Swindell, Product Manager 33
Regulatory Management Branch I
Antimicrobial Division, OPP (751OW)
U.S. ENVIRONMENTAL PROTECTION AGENCY
1200 Pennsylvania Avenue, NW
Washington, DC 20460

Re: Product: ACTICIDE® 14F, EPA Registration No. 67071-5
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. This 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 addition or removal of the qualifier "**not approved for use in the state of California". The acceptance of this label at the DPR is pending EPA's acceptance of the modified formatting.

Modifications are as follows:

I) The following modifications have been made to the label:

- a) An asterisk has been added to the use "recirculating closed loop water cooling systems", and an explanation of the asterisk (*) has been included at the end of the Directions for Use statement to indicate that the uses marked with an asterisk (*) are not approved in the state of California.

II) The following modifications have been made to the Information Sheet:

- a) A qualifier (*) has been added to the front of the uses which are not currently approved for use in California and the explanation of the asterisk (*) has been included at the end of the use statement to indicate that this particular use is not approved in the state of California
- b) A qualifier (*) has been removed from the front of the wood coating use which is approved in California and the explanation of the asterisk (*) at the end of the use statement has been removed.

The attached material consists of the following:

- 1. Application Form for a Notification to modify the label.
- 2. Copy of ACTICIDE® 14F label with changes marked (FOR REFERENCE ONLY)
- 3. Final Printed label for ACTICIDE® 14F

If you have any questions or need added information, please contact me at your convenience.

Sincerely,

Lynn P. Tordo, M.S.
Regulatory Manager

Enc.

Cc: Geri Werdig, Pesticide Registration Associates

THOR SPECIALTIES, INC.

50 Waterview Drive · Shelton, CT 06484 · U.S.A.
Telephone: (203) 516-6980 · Fax: (203) 954-0005

Email: info@thorsp.com

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 other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL AND CHEMICAL HAZARD

This product is corrosive to mild steel.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Do not store or transport in unlined metal containers. Do not contaminate 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 these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Plastic nonrefillable container: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. 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 or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state.

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.

ACTICIDE® 14F

ACTIVE INGREDIENTS:

5-Chloro-2-methyl-4-isothiazolin-3-one 10.60%
2-Methyl-4-isothiazolin-3-one 3.50%

OTHER INGREDIENTS: 85.90%
TOTAL: 100.00%

ACTICIDE® 14F microbicide weighs 10.4 lb. per gallon

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: > Rinse skin immediately with plenty of water for 15-20 minutes.

> Call a poison control center or doctor for treatment.

> 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.

EPA Reg. No. 67071-5 EPA Est. No. 67071-DEU-001

Manufactured By: Thor GmbH

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

Thor Specialties, Inc.

50 Waterview Drive; Shelton, CT 06484

Tel. (203) 516-6980

UN 2922, CORROSIVE LIQUID, TOXIC, N.O.S. [mixture containing 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one (3:1)], 8+6.1, PG-II

Batch:

Mfg Date:

Net Contents (pounds):



Precautionary Statements: Hazards to Humans and Domestic Animals

DANGER

Corrosive. Causes irreversible eye damage and skin burns. May be fatal if swallowed or absorbed through skin. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Do not breath vapor or spray mist. Avoid contact with skin prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Remove contaminated clothing and wash before reuse. PERSONAL PROTECTIVE EQUIPMENT (PPE): Mixers, loaders, and others exposed to methylisothiazolinone must wear:

- Coveralls over long-sleeved shirt and long pants
 - Socks and chemical resistant footwear
 - Goggles or face shield
 - Chemical-resistant gloves (such as rubber or made out of any waterproof material)
 - A respirator with an organic-vapor removing cartridge with a prefiler approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or NIOSH approved Respirator with an organic (OV) cartridge or canister with any R, P, or HE prefilter.
 - In addition, mixers and loaders and persons cleaning equipment must wear a chemical-resistant apron.
- 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.

DIRECTIONS FOR USE

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

Industrial microbicide for use in metal working fluids, metal cleaning fluids, hydraulic fluids, *dispersed pigments, adhesives and tackifiers, wood and wood products, paints and coatings, building materials, polymer latices, *aqueous compositions, *liquid household, consumer, industrial, janitorial products, *semi-solid/solid household, consumer, industrial, janitorial products, *oil field injection waters, *paper slime control, *recirculating water cooling towers, *air washer systems, *recirculating closed loop water cooling systems, *brewery pasteurizer and can warmer systems, *Ultra filtration units, *industrial wastewater treatment systems and sewage systems and fuels. READ AND FOLLOW THE DIRECTIONS FOR USE ON THE ACCOMPANYING INFORMATION SHEET.

*Not approved for these uses in the State of California.

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ACTICIDE® 14F

INFORMATION SHEET



THIS ACTICIDE® 14F INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT OF ACTICIDE® 14F

DIRECTIONS FOR USE

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

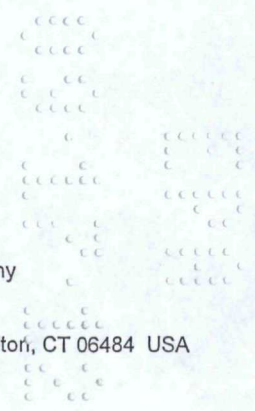
PRESERVATIVE FOR METAL WORKING FLUIDS: ACTICIDE® 14F microbiocide is recommended for the control of bacteria and fungi in soluble and emulsifiable type aqueous metal working fluid solutions and emulsions. Add 3.5 fluid ounces (0.3 lb) per 1000 gallons of emulsion every four weeks or 3.5 to 16 fluid ounces (0.3 to 1.3 lb) per 1000 gallons of emulsion for maintenance of a nonfouled system. For a noticeably fouled system use an initial dose of 7 to 16 fluid ounces (0.6 to 1.3 lb) per 1000 gallons emulsion followed by subsequent maintenance dosage as 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.

METAL CLEANING FLUID PRESERVATION: ACTICIDE® 14F 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® 14F microbiocide at a level to ensure that the final use-dilution fluid will contain 56 to 225 ppm product (8 to 32 ppm active isothiazolones). For direct addition to a fouled system, add 7.2 to 29 fluid ounces (0.6 to 2.3 lb) of ACTICIDE® 14F microbiocide to each 1000 gallons of use-dilution metal cleaning fluid every 3 to 4 weeks to provide 56 to 225 ppm product (8 to 32 ppm active isothiazolones). A higher dosage range and/or increased frequency of treatment may be required depending on the rate of dilution of the preservative with the make up fluid, the nature and severity of the contamination, level of control required, filtration effectiveness, system design, etc. The preservative should be dispensed into the use dilution of the metal cleaning fluid using a metering pump and uniformly dispersed throughout the system.

PRESERVATIVE FOR WATER-BASED HYDRAULIC FLUID: ACTICIDE® 14F 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® 14F microbiocide at 12 to 15 fluid ounces (1.0 to 1.2 lb) per 1000 gallons fluid every 8 weeks. For a noticeably fouled system use an initial dose of 15 to 25 fluid ounces (1.2 to 2.0 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.

***PRESERVATIVE FOR DISPERSED PIGMENT:** ACTICIDE® 14F 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 coatings (including process wash solutions*). Add 0.06 to 0.225 lb. of ACTICIDE® 14F (25 to 102 grams) to each 1000 lb. (454 kg) of fluid to provide 8.5 to 32 ppm active isothiazolones. *Not approved for this use in the State of California.



ACTICIDE® 14F

INFORMATION SHEET



THIS ACTICIDE® 14F INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT OF ACTICIDE® 14F

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 (including process wash solutions*): ACTICIDE® 14F microbiocide is recommended as an in-container preservative for the control of bacteria and fungi in water soluble and water dispersed adhesive such as animal glues, vegetable glues, natural rubber latices, polyvinyl acetate, styrene-butadiene and acrylic lattices. ACTICIDE® 14F microbiocide is recommended as a preservative for tackifiers derived from rosin and hydrocarbon resins. Add 0.06 to 0.22 lb. ACTICIDE® 14F microbiocide (25 to 102 g) to each 1000 lb of fluid to provide 8.5 ppm to 32 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.

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

PRESERVATIVE FOR WOOD AND WOOD PRODUCTS: ACTICIDE® 14F 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. Treat pressure-treatment solution with 0.027 to 0.086 gallons (3.4 to 11 fluid ounces) of ACTICIDE® 14F per 1000 gallons of solution (4.0 to 12.6 ppm active isothiazolones) in the pressure treating process for mold and mildew control. Under extreme mildew conditions, ACTICIDE® 14F may be used up to a maximum concentration of 48 ppm active isothiazolones (up to 33 fluid ounces per 1000 gallons of treatment solution). This application will afford protection up to 12 weeks and during repeated use of solution. ACTICIDE® 14F may be used at higher concentrations so long as the end-use product/article contains a maximum concentration of 48 ppm active isothiazolones.

PRESERVATIVE FOR PAINTS AND COATINGS (including process wash solutions*): ACTICIDE® 14F microbiocide is recommended as an in-container preservative for the control of bacteria and fungi in water based coatings such as paper and wood coatings and paints used for architectural product finishes and special purpose coatings. Add 0.06 to 0.22 lb. (25 to 102 grams) ACTICIDE® 14F microbiocide to each 1000 lb. (454 kg) of fluid to provide 8.5 ppm to 32 ppm of 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.

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

Specifically as a wood coating, ACTICIDE® 14F 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 27 to 86 ppm of ACTICIDE® 14F (3.8 to 12.1 ppm active isothiazolones), by adding 0.2 to 0.7 lb or 3.4 to 11 fluid ounces of ACTICIDE® 14F 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 160 to 330 ppm (23 to 47 ppm active) by adding 1.4 to 2.7 lb or 17 to 33 fluid ounces of ACTICIDE® 14F for every 1,000 gallons of wood treatment solution. Thoroughly wet and allow to dry. ACTICIDE® 14F may be used at higher concentrations so long as the end-use product/article contains a maximum concentration of 48 ppm active isothiazolones.

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ACTICIDE® 14F

INFORMATION SHEET



THIS ACTICIDE® 14F INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT OF ACTICIDE® 14F

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: Includes uses as: 1) preservative for electrodeposition paints or solutions, 2) preservative for photoplatin solutions or coatings, and 3) preservative in fountain (or fountain) solutions used in the printing process as a maintenance fluid/coating and as a special coating for printing plates. The application/addition directions for these special purpose coating uses are:

***ELECTRODEPOSITION:** ACTICIDE® 14F 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® 14F 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® 14F 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 71 to 245 ppm ACTICIDE® 14F microbiocide (0.7-2.5 gallons per 10,000 gallons of fluid in the system). This will provide 10 to 35 ppm of active ingredients. Repeat until control is achieved. When microbial control is evident, add 35 -105 ppm ACTICIDE® 14F (0.35-1.1 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® 14F 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 35-245 ppm product (5-35 ppm active ingredient). **Not approved for this use in the State of California.*

***SUPPLEMENTAL TANKED DOSING OF ELECTRODEPOSITION SYSTEM:** If additional microbial control is necessary, ACTICIDE® 14F microbiocide may be added to the electrodeposition system tankside to supplement the microbiocide incorporated through paint components. If the system becomes noticeably fouled, add 71-245 ppm ACTICIDE® 14F microbiocide (0.7-2.5 gallons per 10,000 gallons of fluid in the system). This will provide 10-35 ppm of active ingredients. Repeat until control is achieved. When microbial control is evident, the system can be maintained by addition of 35-106 ppm ACTICIDE® 14F microbiocide (0.35-1.1 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: To insure uniform mixing, add ACTICIDE® 14F microbiocide to latex or solution 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.

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ACTICIDE® 14F

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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.

***PHOTOPLATE PROCESSING, FOUNTAIN SOLUTIONS, AND INK/INK COMPONENTS** (including process wash solutions): ACTICIDE® 14F microbiocide is recommended for the control of bacteria and fungi in photoplate processing such as stabilizer solutions and in fountain solutions. ACTICIDE® 14F microbiocide is recommended for water-based printing inks such as flexographic, gravure, screen and ink jet types. ACTICIDE® 14F 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® 14F microbiocide should be added to achieve the recommended dosage range for ink, ink components, fountain solutions and photoplate processing chemicals of 0.1% to 1.0% on a total weight basis. The optimum level range for acidic fountain solutions is 0.2% to 0.5%; the optimum level range for basic fountain solutions is 0.5% to 0.8%. A level adjustment may be necessary to accommodate the slight change in solution formulations.

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

PRESERVATIVE FOR BUILDING MATERIALS (including process wash solutions*): ACTICIDE® 14F microbiocide 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 0.05 to 0.225 lb. of ACTICIDE® 14F microbiocide to each 1000 lb. of fluid to provide 7 ppm to 32 ppm active isothiazolones.

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

PRESERVATIVE FOR LATICES (including process wash solutions*): ACTICIDE® 14F 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 0.06 to 0.45 lb. (25 to 205 g) of ACTICIDE® 14F microbiocide to each 1000 lb. (454kg) of emulsion to provide 8.5 ppm to 63.5 ppm active isothiazolones.

ACTICIDE® 14F microbiocide may be added to the above products formulated as concentrates which are in turn diluted for use at a level to ensure that the final use-dilution product will not exceed the concentration indicated above.

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

***PRESERVATIVE FOR AQUEOUS COMPOSITIONS** (including process wash solutions): ACTICIDE® 14F 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. Add 0.05 to 0.35 lb. of ACTICIDE® 14F microbiocide to each 1000 lb. of aqueous product.

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

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ACTICIDE® 14F

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.

***LIQUID HOUSEHOLD, CONSUMER, INDUSTRIAL, JANITORIAL-PRODUCTS** (including process wash solutions): ACTICIDE® 14F is added at a level of 0.04 to 0.16 lb. to each 1000lb. of product to be protected. For the control of bacteria and fungi in liquid soaps, liquid cleaners, liquid detergents, liquid laundry products, liquid dishwashing detergents, waxes, polishes, liquid fabric treatment/refreshers products, liquid air fresheners/deodorizers, car care products, and other similar cleaners. ACTICIDE® 14F may also be used for the control of bacteria and fungi in package utility products such as pre-moistened sponges and mops. ACTICIDE® 14F 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® 14F 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 40 ppm to 160 ppm ACTICIDE® 14F microbiocide.

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

***SEMI-SOLID/SOLID HOUSEHOLD, CONSUMER, INDUSTRIAL, JANITORIAL-PRODUCTS** (including process wash solutions): ACTICIDE® 14F is added at a level of 0.04 to 0.16 lb. to each 1000lb. of product to be protected. For the control of bacteria and fungi in semi-solid/solid soaps, semi-solid/solid cleaners, semi-solid/solid detergents, semi-solid/solid laundry products, semi-solid/solid dishwashing detergents, waxes, polishes, semi-solid/solid fabric treatment/refreshers products, semi-solid/solid air fresheners/deodorizers, car care products, and other similar cleaners. ACTICIDE® 14F may also be used for the control of bacteria and fungi in package utility products such as pre-moistened sponges and mops. ACTICIDE® 14F 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® 14F 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 40 ppm to 160 ppm ACTICIDE® 14F microbiocide.

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

***OIL FIELD INJECTION WATERS:** Add 2.5 to 6.1 lb (0.29 to 0.7 gallons) ACTICIDE® 14F per 1000 barrels of water (7.1 to 17.5 ppm ACTICIDE® 14F) 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 6.1 to 12.4 lb ACTICIDE® 14F per 1000 barrels of water (17.4 to 34.8 ppm ACTICIDE® 14F) may be used until control is achieved. This product may be used for terrestrial and off-shore oil drilling muds and packer fluids. **Not approved for this use in the State of California.*

***PAPERMILLS:** Add 0.048 to 0.16 lb of ACTICIDE® 14F 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® 14F should be added to a point such as the Beater or Hydropulper to ensure uniform mixing. **Not approved for this use in the State of California.*

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ACTICIDE® 14F

INFORMATION SHEET



THIS ACTICIDE® 14F INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT OF ACTICIDE® 14F

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® 14F 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 0.032 to 0.196 lb of ACTICIDE® 14F per 1000 gallons of water (3.7 to 23 ppm ACTICIDE® 14F) weekly or as needed for maintenance. For noticeably fouled systems use an initial dose of 0.13 to 0.79 lb ACTICIDE® 14F per 1000 gallons of water. Repeat if necessary to achieve control. *Not approved for this use in the State of California.

***AIR WASHER SYSTEMS / *PAINT SPRAY BOOTHS:** For use only in industrial air washing systems that maintain effective mist eliminating components. Add 0.032 to 0.79 lb ACTICIDE® 14F to 1000 gallons of water (2.7 to 93.6 ppm ACTICIDE® 14F) 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.

***INDUSTRIAL RECIRCULATING CLOSED LOOP WATER COOLING SYSTEMS AND PROCESS WATER SYSTEMS:** Add 0.032 to 0.196 lb ACTICIDE® 14F 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 0.13 to 0.79 lb ACTICIDE® 14F per 1000 gallons of water may be needed depending on the severity of the fouling. *Not approved for this use in the State of California.

***BREWERY PASTEURIZERS AND CAN WARMER SYSTEMS:** Add 0.032 to 0.196 lb of ACTICIDE® 14F 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 0.13 to 0.79 lb ACTICIDE® 14F per 1000 gallons of water may be needed depending on the severity of the fouling.

NOTE: Regardless of the manner of incorporation, the total active ingredient level in the system should never exceed 35 ppm (equivalent to 248 ppm ACTICIDE® 14F or 2.5 gallons per 10,000 gallons of system fluid). *Not approved for this use in the State of California.

***ULTRA FILTRATION UNITS, such as REVERSE OSMOSIS SYSTEMS:** ACTICIDE® 14F microbiocide is recommended for the control of bacteria and fungi in ultra filtration units, such as reverse osmosis systems. Add 1 - 35 ppm of ACTICIDE® 14F 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® 14F microbiocide with reverse osmosis membranes should be confirmed with membrane manufacturers. For the control of bacteria and fungi in carbon beds, add 1 - 35 ppm of ACTICIDE® 14F microbiocide (0.15 - 5 ppm active ingredient). For periodic membrane cleaning, add 0.04 - 0.10 lbs of ACTICIDE® 14F microbiocide to every 120 gallons of cleaning solution (6 - 15 ppm active ingredient).

Badly fouled systems should be cleaned before treatment is begun.

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

ACTICIDE® 14F

INFORMATION SHEET



THIS ACTICIDE® 14F INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT OF ACTICIDE® 14F

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® 14F 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 15.5 – 93 ppm ACTICIDE® 14F microbiocide (0.13 – 0.78 pound or 2 – 12 fluid ounce of ACTICIDE® 14F 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 3.5 – 23 ppm ACTICIDE® 14F microbiocide (0.03 – 0.2 pounds or 0.45 – 3 fluid ounces of ACTICIDE® 14F per 1000 gallons of water in the system) weekly or as needed to maintain control.

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

***FUEL PRESERVATION:** ACTICIDE® 14F is recommended for the control of bacteria and fungi in the following liquid hydrocarbon fuels and oils: crude oils, aviation fuels, kerosene, heating oils, diesel fuels, residual fuel oils, coal slurries, liquefied petroleum gases and petrochemical feedstocks. ACTICIDE® 14F is recommended for REFINERY AND TERMINAL USE ONLY. ACTICIDE® 14F should be directly dispensed into a fuel tank, storage tank or a flowing stream of fuel in a manner to ensure uniform distribution of the preservative in the fuel system. Slug dose or continuous feed methods are recommended.

Curative Dose: When the system is noticeably fouled, add 11 - 21 gallons ACTICIDE® 14F per 1 million gallons of fluid in the system. This will provide 11 to 21 ppm of ACTICIDE® 14F and 1.5 – 3.0 ppm active ingredient. Repeat until control is achieved. A shock dose of up to 42 gallons of ACTICIDE® 14F per 1 million gallons of fluid is recommended in the case of extreme contamination. Grossly contaminated systems should be physically cleaned to remove debris.

Maintenance Dose: When the system is not noticeably fouled, add 5 - 16 gallons of ACTICIDE® 14F per 1 million gallons of fluid to maintain the system. This will provide 5 to 16 ppm of ACTICIDE® 14F and 0.75 – 2.25 ppm active ingredient. Repeat every 4 – 6 weeks or when microbial contamination is detected.

FOR USE IN AVIATION FUEL, THE FEDERAL AVIATION ADMINISTRATION MUST BE CONSULTED AS TO THE ACCEPTABILITY OF THE ADDITIVE FOR USE IN SPECIFIC ENGINES AND/OR AIRCRAFT.

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