



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

MAY 16 2000

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

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

Attention: Frank Surawski

Subject: Acticide 14F  
EPA Registration Number 67071-5  
Your Submission Dated May 3<sup>rd</sup>, 2000  
EPA Received Date May 8<sup>th</sup>, 2000

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you comply with the items listed below. The subject of this amendment is for the use of this product as a microbiocide in Electrodeposition systems/solutions, Photoplate processing, and Fountain Solutions and Ink/Ink components.

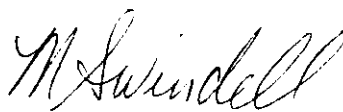
1. Submit/cite all data required for registration/-reregistration of your product under FIFRA section 3(c)(5) and section 4 when the Agency requires all registrants of similar products to submit such data.
2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

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

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

If you have any questions concerning this letter, please contact Karen M. Leavy- Munk at (703)-308-6237.

Sincerely,

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

Marshall Swindell  
Product Manager 33  
Regulatory Management Branch I  
Antimicrobial Division(7505C)

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

Acticide 14F  
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Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.



67071-5

# ACTICIDE® 14F

Industrial microbiocide for use in metal working fluids, metal cleaning fluids, hydraulic fluids, adhesives, tackifiers, dispersed pigments, paints, building materials, polymer latices, 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.

## ACTIVE INGREDIENTS:

5-Chloro-2-methyl-4-isothiazolin-3-one ..... 10.2%  
2-Methyl-4-isothiazolin-3-one ..... 4.0%

INERT INGREDIENTS: ..... 85.8%

TOTAL: ..... 100.0%

## KEEP OUT OF REACH OF CHILDREN DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

### STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Do not induce vomiting. Drink promptly large quantities of water. Avoid alcohol. Call a physician immediately.

IF ON SKIN: Wash thoroughly with soap and water. Remove and wash contaminated clothing before reuse.

IF IN EYES: Flush with plenty of water for at least 15 minutes. Call a physician.

IF INHALED: Remove immediately to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Call physician.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

EPA Reg. No. 67071-5

EPA Est. No.

Manufactured By:

Thor Chemie GmbH  
D-67348 Speyer, Germany  
Tel. (06232) 8360

U.S. Office:

ACTI-CHEM Specialties, Inc.  
56 Quarry Road  
Trumbull, CT 06611 U.S.A.  
Tel. (203) 365-6530

RECOMMENDED TO BE USED WITHIN 12 MONTHS FROM DATE OF MANUFACTURE.

Net Contents: \_\_\_\_\_ Pounds

Date of Manufacture: \_\_\_\_\_

2/00

Lot # \_\_\_\_\_

**PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
DANGER**

**KEEP OUT OF REACH OF CHILDREN**

**CORROSIVE. CAUSES EYE DAMAGE AND SKIN BURNS. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF INHALED. MAY BE FATAL IF SWALLOWED OR ABSORBED THROUGH THE SKIN.** Do not get in eyes, on skin, on clothing. Wear goggles or face shield and rubber gloves when handling. Avoid breathing vapor or spray mist. Avoid contamination of food. Do not take internally. Wash thoroughly after handling.

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**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and wildlife. 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. Do not contaminate water by cleaning of equipment or disposal of waste. Apply this pesticide only as specified on this label.

**STORAGE AND DISPOSAL**

**PROHIBITIONS:** This product (pH 3.0) is corrosive to mild steel. 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:** Metal container: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities. Plastic container: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or incinerator or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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

**CONDITIONS OF SALE AND WARRANTY**

Thor Chemie 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 CHEMIE 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 Chemie 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 CHEMIE GMBH OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

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

Add 0.6 to 0.22 lb. Acticide 14F microbiocide (25 to 102 g) 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.

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

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**PRESERVATIVE FOR BUILDING MATERIALS:** 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 25 ppm active isothiazolones.

**PRESERVATIVE FOR LATICES:** 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 7 ppm to 50 ppm active Isothiazolones.

**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.

**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.

**INDUSTRIAL RECIRCULATING WATER COOLING TOWER:** Acticide 14F microbiocide is recommended for the control of bacteria, algae and fungi. It should be added to the lower 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.

**AIR WASHER SYSTEMS:** 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.

**INDUSTRIAL RECIRCULATING CLOSED LOOP WATER COOLING 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.

**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.

**PRESERVATIVE FOR PAINTS AND COATINGS:** 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 and other 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 7 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 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 (4.0 to 12.6 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 (24 to 48 ppm active) by adding 1.4 to 2.7 lb or 17 to 33 fluid ounces of Acticide 14F for every 1000 gallons of wood treatment solution. Thoroughly wet and allow to dry. A single application will afford protection for 12 weeks.

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**SPECIAL PURPOSE COATING USES:** include uses as: 1) preservative for electrodeposition paints or solutions, 2) preservative for photoplating solutions or coatings, and 3) preservative in fount (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. Alternatively, 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 71-245 ppm Acticide 14F microbiocide (0.7 - 2.5 gallon 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 gallon 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.

#### **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).

**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 gallon 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 - 105 ppm. Acticide 14F microbiocide (0.35 - 1.1 gallon per 10,000 gallons of fluid in the system) weekly or as needed. This will provide 5 - 15 ppm of active ingredients.

**NOTE:** Regardless of the manner of incorporation, the total active ingredient level in the system should never exceed 35 ppm (equivalent to 245 ppm Acticide 14F or 2.5 gallons per 10,000 gallons of system fluid).

**PHOTOPLATE PROCESSING, FOUNTAIN SOLUTIONS, AND INK/INK COMPONENTS:** 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 neutral fountain solutions is 0.5% to 0.8%. A level adjustment may be necessary to accommodate the slight change in solution formulations.

Acticide 14F microbiocide weighs 10.4 lb. per gallon.

**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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