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Systems Integration Group, Inc.

PM 33

67071-5

5/19/99

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Acticide® 14F

Date amended: May, 1999

# 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.

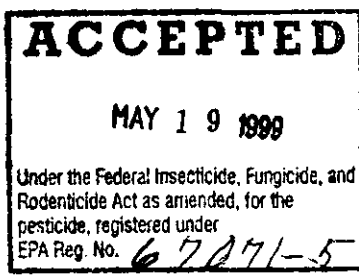
**IF IN EYES:** Flush with plenty of water for at least 15 minutes. Call a physician.

**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 Registration No. 67071-5

MANUFACTURED FOR:  
Thor Chemie GmbH  
D-67346 Speyer, GERMANY  
Tel: (06232) 6360



EPA Establishment No 70897-NC-001

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

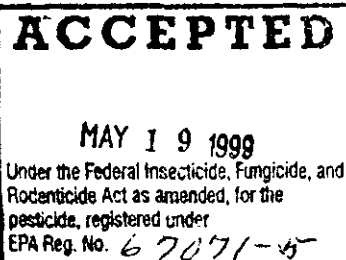
NOT FOR SALE OR USE AFTER 12 MONTHS FROM THE DATE OF MANUFACTURE.

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

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

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

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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.

**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 (6.25 to 25 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 (6.25 to 25 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.

**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 lbs) 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 lbs.) 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. Add 0.06 to 0.225 lb of Acticide 14F (25 to 102 grams) to each 1000 lb (454kg) of fluid to provide 7 to 25 ppm active isothiazolones.

Date amended: May, 1999

**PRESERVATIVE FOR ADHESIVES AND TACKIFIERS.** Acticide 14F 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 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 grams) 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.

**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, 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.

**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.

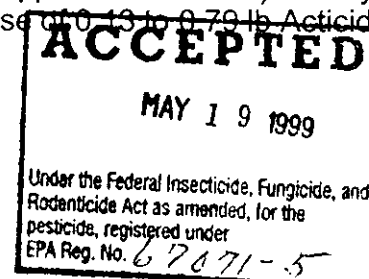
Add 0.06 to 0.45 lb. (25 to 205 g) of Acticide 14F microbiocide to each 1000 lb (454 kg) of emulsion to provide 7 ppm to 50 ppm of active isothiazolones.

**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.

**PAPER MILLS:** 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 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.



Date amended: May, 1999

**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.

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.

### **CONDITIONS OF SALE AND WARRANTY**

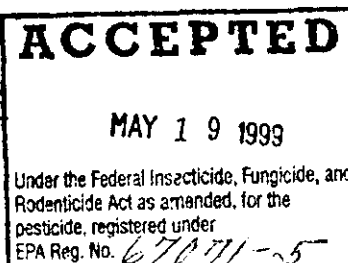
Thor Chemie GmbH warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. THOR CHEMIE GmbH MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY 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.

### **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 when handling.

Date amended: May, 1999

**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.

