OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

February 06, 2025

Alfredo Dumalsen
adumalsen@thorsp.com
THOR GMBH

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment - Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment - clarifying concentrate language; and separating industrial/institutional/janitorial products and household consumer products label language in the use categories
Product Name: ACTICIDE 14F
Admin Number: 67071-5
EPA Receipt Date: 08/22/2024
Action Case Number: 00632904

Dear Alfredo Dumalsen:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company’s website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA’s Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have questions, please contact Katelyn Chambers via email at chambers.katelyn@epa.gov.

Sincerely,

Heather Garvie, Senior Regulatory Advisor
RMB 2, AD
Office of Pesticide Programs

{All text in brackets [xxx] is optional and may or may not be intended on a final label.}
{All text in braces {xxx} is administrative and will not appear on a final label.}

Label # 005-00 V012 – 08-AUG-2024

ACCEPTED
02/06/2025
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 67071-5

THOR

# 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 microbiocide 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:**
- 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.

HOT LINE NUMBER: In case of emergency, for additional information call toll free 1-800-424-9300. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**For Transportation / Spill Emergency: Call Chemtrec at 1-800-424-9300**

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

Manufactured By/For: Thor GmbH
D-67346 Speyer, Germany

U.S. Office: Thor Specialties, Inc.
50 Waterview Drive; Shelton, CT 06484 USA
Tel. (203) 516-6980

[***OR:*** ***EPA Est. No. 67071-MEX-001***

Manufactured By: Thor Químicos de México SA de CV;
Autopista Mex-Qro Km 182; Pedro Escobedo,
Querétaro; México.

Manufactured For: Thor GmbH
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## 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 breathe 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 prefilter 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 microbiocide 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, [*]textile processing, 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 a use registered in California]

### 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 non-refillable container: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incinerator 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.

{***OR***:

CONTAINER DISPOSAL: Non-refillable containers [> 5 gallons in size]. 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. Empty tote container may be returned to a tote collection agent. Residue removal – Cleaning container before final disposal is the responsibility of the person disposing of the container. To clean container before final disposal, fill container about 10 percent full with water; agitate container vigorously; discard rinsate according to pesticide disposal instructions; repeat this rinsing procedure two more times. Then offer recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. For additional container disposal information, contact product supplier.}

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
# 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.**

| | |
|---|---|
| **METAL WORKING FLUIDS:**<br>ACTICIDE® 14F microbiocide is recommended for the control of bacteria and fungi in soluble and emulsifiable type aqueous metal working fluid solutions and emulsions.<br>The preservative should be dispensed into the use dilution of the metal working fluid using a metering pump and uniformly dispersed throughout the system.<br>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. | ***For a noticeably fouled system:***<br>7 to 16 FL OZ (0.6 to 1.3 LB) per 1000 GAL of emulsion.<br>(55 to 125 ppm ACTICIDE® 14F)<br>Repeat until control is achieved.<br><br>***When control is evident:***<br>3.5 FL OZ (0.3 LB) per 1000 GAL of emulsion every 4 weeks.<br>(27 ppm ACTICIDE® 14F) |
| **METAL CLEANING FLUIDS:**<br>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.<br>The preservative should be dispensed into the use dilution of the metal cleaning fluid using a metering pump and uniformly dispersed throughout the system.<br>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.<br>***CONCENTRATES:***<br>For addition to a metal cleaning concentrate, add ACTICIDE® 14F microbiocide at a level to ensure that the final use-dilution fluid will contain 56 to 225 ppm product. | ***For direct addition to a fouled system:***<br>7.2 to 29 FL OZ (0.6 to 2.3 LB) per 1000 GAL of use-dilution metal cleaning fluid every 3-4 weeks to provide 56 to 225 ppm product |



**EPA Reg. No. 67071-5**
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| **WATER-BASED HYDRAULIC FLUIDS:**<br>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.<br>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. | ***For a noticeably fouled system:***<br>15 to 25 FL OZ (1.2 to 2.0 LB) per 1000 GAL of fluid<br>(117 to 195 ppm ACTICIDE® 14F)<br>every 8 weeks to be followed by subsequent maintenance dosage<br>***For non-fouled system maintenance:***<br>12 to 15 FL OZ (1.0 to 1.2 LB) per 1000 GAL of fluid every 8 weeks<br>(94 to 117 ppm ACTICIDE® 14F) |
| **DISPERSED PIGMENTS AND [*] COLORANTS:**<br>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.<br>*SUPPLEMENTAL DOSING:*<br>Depending on the nature/severity of the contamination, if analysis indicates a loss of active ingredient(s) and further microbial control is necessary, product may be dosed with additional ACTICIDE® 14F microbiocide at a level to ensure that the final use-dilution product will not exceed the maximum concentration indicated (225 ppm ACTICIDE® 14F).<br>*[*Not a use registered in California].* | **0.006 – 0.0225%**<br>0.06 – 0.225 LB per 1000 LB fluid<br>25 – 102 grams per 454 kg fluid<br>(60 to 225 ppm ACTICIDE® 14F) |
| **ADHESIVES AND TACKIFIERS:**<br>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 latices. ACTICIDE® 14F microbiocide is recommended as a preservative for tackifiers derived from rosin and hydrocarbon resins.<br>A higher dosage rate providing up to 45 ppm active ingredients may be required for storage during extremely high temperatures and humidity. | **0.006 – 0.022%**<br>0.06 – 0.22 LB per 1000 LB fluid<br>25 – 102 grams per 454 kg fluid<br>(60 to 220 ppm ACTICIDE® 14F) |



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| **WOOD AND WOOD PRODUCTS:**<br>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 in the pressure treating process for mold and mildew control.<br>Under extreme mildew conditions, ACTICIDE® 14F may be used up to a maximum concentration of 343 ppm product (33 fluid ounces ACTICIDE® 14F per 1000 gallons of treatment solution).<br>This application will afford protection up to 12 weeks and during repeated use of solution.<br>ACTICIDE® 14F may be used at higher concentrations so long as the end-use product/article contains a maximum concentration of 343 ppm ACTICIDE® 14F.<br>For spray treatment only; a negative-pressure spray box equipped with effective mist elimination may be used. Application rates will vary according to wood species and moisture content, temperature, humidity, storage conditions and inoculum pressure. Ensure that the treatment conditions are such that the wood articles are uniformly covered with the treating solution. Monitor spray booth mixtures to ensure proper concentrations are being maintained. | 0.027 – 0.086 GAL (3.4 to 11 FL OZ) per 1000 GAL of solution |
| **[*] For the control of blue stain, mold and decay of freshly cut lumber and logs:**<br>Treat lumber immediately after it is sawn. Freshly dipped or sprayed lumber must be protected from rain. Dip tanks and drip aprons must be roofed, paved and drained to prevent dilution and loss of stain solution. Antistain treatment concentrations must be geared to achieve protection of the thickest or most valuable item being treated. The concentration of the ready-to-use antistain solution must be adjusted to accommodate seasonal changes in the exposure and species being treated. Dip tanks and spray equipment and metering equipment must be properly maintained.<br>Lumber and logs must be totally immersed or sprayed to ensure all surfaces are treated. Ensure good mixing prior to and during the treatment process.<br>*[*Not a use registered in California].* | 1 GAL per 3500 GAL of water (286 ppm ACTICIDE® 14F) |



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| **PAINTS AND COATINGS:**<br>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.<br>A higher dosage rate providing up to 45 ppm active ingredients may be required for storage during extremely high temperatures and humidity. | **0.006 – 0.022%**<br>0.06 – 0.22 LB per 1000 LB fluid<br>25 – 102 grams per 454 kg fluid<br>(60 to 220 ppm ACTICIDE® 14F) |
| 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. Thoroughly wet and allow to dry.<br>A single application will afford protection for 12 weeks. | 0.2 – 0.7 LB (3.4 – 11 FL OZ) per 1000 GAL preservative<br>(27 – 86 ppm of ACTICIDE® 14F) |
| Under extreme mildew conditions:<br>ACTICIDE® 14F may be used at higher concentrations so long as the end-use product/article contains a maximum concentration of 330 ppm ACTICIDE® 14F. | 1.4 – 2.7 LB (17 – 33 FL OZ) per 1000 GAL preservative<br>(160 – 330 ppm of ACTICIDE® 14F) |

**[*] Special purpose coating uses**

Use as a preservative for:

- Electrodeposition paints or solutions
- Photo/photoplating solutions or coatings
- 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:

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[*] 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.



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| [*] Tankside Addition to Electrodeposition Systems:<br>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.<br>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.<br>*[*Not a use registered in California]* | ***For a noticeably fouled system:***<br>71 to 245 ppm (0.7 to 2.5 GAL per 10,000 GAL of fluid). Repeat until control is achieved.<br>***When control is evident:***<br>35 to 105 ppm (0.35 to 1.1 GAL per 10,000 GAL of fluid) weekly or as needed. |
| [*] TREATMENT OF ELECTRODEPOSITION PAINT COMPONENTS<br>Initial Dose of Paint Components:<br>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 to 245 ppm product.<br>*[*Not a use registered in California]*<br><br>[*] Supplemental Tanked Dosing of Electrodeposition System:<br>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.<br>*[*Not a use registered in California]*<br>NOTE: To ensure 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. | ***For a noticeably fouled system:***<br>71 to 245 ppm (0.7 to 2.5 GAL per 10,000 GAL of fluid). Repeat until control is achieved.<br>***When control is evident:***<br>35 to 105 ppm (0.35 to 1.1 GAL per 10,000 GAL of fluid) weekly or as needed. |



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| [*] PHOTOPLATE PROCESSING, FOUNTAIN SOLUTIONS, AND INK/INK COMPONENTS<br>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 is recommended for water-based printing inks such as flexographic, gravure, screen and ink jet types. ACTICIDE® 14F 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.<br>A level adjustment may be necessary to accommodate slight changes in solution formulations.<br>*CONCENTRATES:*<br>ACTICIDE® 14F should be added to concentrates at a level to ensure that the final use dilution of the product will contain 0.035% ACTICIDE® 14F.<br>To ensure uniform mixing add ACTICIDE® 14F microbiocide to the product slowly with agitation.<br>*[*Not a use registered in California]* | **0.01 – 0.035%**<br>0.1 to 0.35 LB per 1000 LB formulation<br>(100 to 350 ppm ACTICIDE® 14F) |
| **BUILDING MATERIALS:**<br>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, concrete admixtures, spackling and grouting. | **0.005 – 0.0225%**<br>0.05 – 0.225 LB per 1000 LB fluid<br>(50 to 225 ppm ACTICIDE® 14F) |



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| **LATICES, POLYMER EMULSIONS OR SOLUTIONS:**<br>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.<br>*CONCENTRATES:*<br>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.<br>*SUPPLEMENTAL DOSING:*<br>Depending on the nature/severity of the contamination, if analysis indicates a loss of active ingredient(s) and further microbial control is necessary, product may be dosed with additional ACTICIDE® 14F microbiocide at a level to ensure that the final use-dilution product will not exceed the maximum concentration indicated (450 ppm ACTICIDE® 14F). | **0.006 – 0.045%**<br>0.06 – 0.45 LB per 1000 LB fluid<br>25 – 205 grams per 454 kg fluid<br>(60 to 450 ppm ACTICIDE® 14F) |
| **[*] AQUEOUS COMPOSITIONS:**<br>ACTICIDE® 14F microbiocide is recommended as an in-container preservative for the control of bacteria and fungi in aqueous products such as:<br>[*] fiberglass sizing solutions<br>[*] aqueous emulsions and dispersions including<br>[*] stabilized oil/water emulsions<br>[*] surface preparation compounds<br>[*] foam control products<br>[*] nutrient solutions<br>[*] pesticide formulations.<br>*[*Not a use registered in California]* | **0.005 – 0.035%**<br>0.05 – 0.35 LB per 1000 LB aqueous product<br>(50 to 350 ppm ACTICIDE® 14F) |



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|---|---|
| **LIQUID HOUSEHOLD, CONSUMER PRODUCTS**<br>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/refresher 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.<br>APPLICATION IN WIPES<br>ACTICIDE® 14F may also be used from the control of bacteria and fungi in solutions that are then put into/onto wet wipes for use in 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. | **0.004 – 0.016%**<br>0.04 – 0.16 LB per 1000 LB product |
| **SEMI-SOLID/SOLID HOUSEHOLD CONSUMER PRODUCTS**<br>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/refresher products, semi-solid/solid air fresheners/deodorizers, car care products, and other similar cleaners.<br>ACTICIDE® 14F may also be used for the control of bacteria and fungi in package utility products such as pre-moistened sponges and mops.<br>APPLICATIONS IN WIPES<br>ACTICIDE® 14F may also be used from the control of bacteria and fungi in solutions that are then put into/onto wet wipes for use in 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. | **0.004 – 0.016%**<br>0.04 – 0.16 LB per 1000 LB product |
| **INDUSTRIAL/ INSTITUTIONAL/ JANITORIAL PRODUCTS**<br>For the control of bacteria and fungi in liquid and semi-solid/solid soaps, liquid and semi-solid/solid cleaners, liquid and semi-solid/solid detergents, liquid and semi-solid/solid laundry products, liquid and semi-solid/solid dishwashing detergents, waxes, polishes, liquid and semi-solid/solid fabric treatment/refresher products, liquid and semi-solid/solid air fresheners/deodorizers, car care products, and other similar cleaners.<br>ACTICIDE® 14F may also be used for the control of bacteria and fungi in package utility products such as pre-moistened sponges and mops.<br>APPLICATIONS IN WIPES | **0.004 – 0.016%**<br>0.04 – 0.16 LB per 1000 LB product |



**EPA Reg. No. 67071-5**
Manufactured By/For: Thor GmbH
D-67346 Speyer, Germany

U.S. Office: Thor Specialties, Inc.
50 Waterview Drive, Shelton, CT
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Tel. (203) 516-6980

# 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.**

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 and commercial uses cited above. This product is not for use in treating/preserving solutions that will be incorporated into personal care wipes, baby wipes, or food contact wipes.

**CONCENTRATES FOR USE IN INDUSTRIAL / INSTITUTIONAL / JANITORIAL USE:**

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 0.004 and 0.016% ACTICIDE® 14F microbiocide.

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| **[*] INDUSTRIAL PROCESS WATER:**<br>***Process wash waters:*** recommended for the control of bacteria and fungi in the storage of process wash water during the manufacture of adhesives and tackifiers; paints and coatings; photoplate processing, fountain solutions, and ink / ink components; building materials; latices, polymer emulsions or solutions; aqueous compositions; liquid household, consumer, industrial, janitorial products; semi-solid / solid household, consumer, industrial, janitorial products.<br>*[*Not a use registered in California]* | **0.005 – 0.035%**<br>0.05 – 0.35 LB per 1000 LB wash water<br>(50 to 350 ppm ACTICIDE® 14F) |
| **OIL FIELD INJECTION WATERS:**<br>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 offshore oil drilling muds and packer fluids. | 2.5 – 6.1 LB (0.29 to 0.7 GAL) per 1000 barrels of water<br>(7.1 to 17.5 ppm ACTICIDE® 14F) |
| **[*] PAPERMILLS:**<br>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.<br>*[*Not a use registered in California]* | 0.048 – 0.16 LB per ton (dry basis) of pulp or paper produced as slug dose |
| **[*] TEXTILE PROCESSING CHEMICALS:**<br>This product is recommended for the control of bacteria and fungi in the manufacture and storage of textile processing chemicals such as fiber lubricants, spin finishes, sizes, dyestuffs, textile printing inks, dispersants, thickeners, dye fixatives, hand builders and weighters. | 0.004 – 0.018%<br>0.04 – 0.18 LB per 1000 LB fluid<br>(40 – 180 ppm ACTICIDE® 14F) |



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| These textile processing chemicals are commonly used in the production of natural and synthetic fibers and fabrics.<br>*[*Not a use registered in California]* | |
| **INDUSTRIAL RECIRCULATING WATER COOLING TOWER:** | |
| ACTICIDE® 14F 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. 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. | 0.032 – 0.196 LB per 1000 GAL water<br>(3.7 to 23 ppm ACTICIDE® 14F)<br>weekly or as needed for maintenance |
| **For the Preservation of Papermaking Additives and Coatings**<br>This product should be added directly to the material to be preserved during the manufacture of the papermaking product. Dosing may be repeated as necessary. The dosage rates are as follows: | |
| Adhesives<br>A higher dosage rate providing up to 45 ppm active ingredients may be required for storage during high temperatures and humidity. | **0.006 – 0.022%**<br>0.06 – 0.22 LB per 1000 LB fluid<br>(60 to 220 ppm ACTICIDE® 14F |
| Coatings<br>A higher dosage rate providing up to 45 ppm active ingredients may be required for storage during high temperatures and humidity. | **0.006 – 0.022%**<br>0.06 – 0.22 LB per 1000 LB fluid<br>(60 to 220 ppm ACTICIDE® 14F |
| Polymers/latices<br>Note: to insure uniform mixing, add ACTICIDE® 14 microbiocide to latex or solutions slowly with agitation. | **0.006 – 0.045%**<br>0.06 – 0.45 LB per 1000 LB fluid<br>(60 to 450 ppm ACTICIDE® 14F) |
| [*] Dispersed pigments<br>*[*Not a use registered in California]* | **0.006 – 0.022%**<br>0.06 – 0.22 LB per 1000 LB fluid<br>(60 to 220 ppm ACTICIDE® 14F |
| [*] Emulsions<br>*[*Not a use registered in California]* | **0.006 – 0.045%**<br>0.06 – 0.45 LB per 1000 LB emulsion<br>(60 to 450 ppm ACTICIDE® 14F) |
| [*] Foam control products<br>*[*Not a use registered in California]* | **0.005 – 0.035%**<br>0.05 – 0.35 LB per 1000 LB aqueous product<br>(50 to 350 ppm ACTICIDE® 14F) |
| **[*] AIR WASHER SYSTEMS / [*] PAINT SPRAY BOOTHS:** | |
| For use only in industrial air washing systems that maintain effective mist eliminating components. Add to water in the air washer sump, or chill water sump to ensure uniform mixing for the control of | 0.032 – 0.79 LB per 1000 GAL of water |



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| bacteria, fungi and algae. A repeat treatment may be needed depending on the severity of contamination.<br>*[*Not a use registered in California]* | (2.7 to 93.6 ppm ACTICIDE® 14F) |
| **INDUSTRIAL RECIRCULATING CLOSED LOOP WATER COOLING SYSTEMS AND PROCESS WATER SYSTEMS:**<br>To maintain control of bacteria, fungi and algae. Add to water in the reservoir, recirculating line or some other point to ensure uniform mixing.<br>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. | 0.032 – 0.196 LB per 1000 GAL water weekly<br>(3.7 to 23 ppm ACTICIDE® 14F) |
| **[*] BREWERY PASTEURIZERS AND CAN WARMER SYSTEMS:**<br>To maintain control of bacteria, algae and fungi.<br>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.<br>NOTE: Regardless of the manner of incorporation, the total level should never exceed 248 ppm ACTICIDE® 14F or 2.5 gallons per 10,000 gallons of system fluid.<br>*[*Not a use registered in California]* | 0.032 – 0.196 LB per 1000 GAL water<br>(3.7 to 23 ppm ACTICIDE® 14F)<br>weekly or as needed for maintenance |
| **[*] ULTRA FILTRATION UNITS, such as REVERSE OSMOSIS SYSTEMS**<br>ACTICIDE® 14F microbiocide is recommended for the control of bacteria and fungi in ultra filtration units, such as reverse osmosis systems.<br>Add 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. | 1 – 35 ppm ACTICIDE® 14F |
| For the control of bacteria and fungi in carbon beds. | 1 – 35 ppm ACTICIDE® 14F |
| For periodic membrane cleaning.<br>Badly fouled systems should be cleaned before treatment is begun.<br>*[*Not a use registered in California]* | 0.04 – 0.10 LB per 120 GAL of cleaning solution |



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**[*] 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.

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| INITIAL DOSE:<br>When the system is noticeably fouled, apply ACTICIDE® 14F as indicated. Repeat until control is achieved. Badly fouled systems should be cleaned before treatment is begun. | 0.13 – 0.78 LB or 2 – 12 FL OZ per 1000 GAL of water in the system<br>(15.5 to 93 ppm ACTICIDE® 14F) |
| SUBSEQUENT DOSE:<br>When microbial control is evident, add ACTICIDE® 14F weekly or as needed to maintain control. | 0.03 – 0.2 LB or 0.45 – 3 FL OZ per 1000 GAL of water in the system<br>(3.5 to 23 ppm ACTICIDE® 14F) |

*[*Not a use registered in California]*

**[*] FUELS AND OILS:**

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.

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.

**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 a use registered in California]*

**For a noticeably fouled system:**

11 to 21 GAL per 1 million GAL of fluid.

(11 to 21 ppm ACTICIDE® 14F)

Repeat until control is achieved.

**Maintenance dose:**

5 – 16 GAL per 1 million GAL of fluid

(5 to 16 ppm ACTICIDE® 14F)

Repeat every 4 – 6 weeks or when microbial contamination is detected.



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{All text in brackets [xxx] is optional and may or may not be intended on a final label.}
{All text in braces {xxx} is administrative and will not appear on a final label.}

| | | |
|---|---|---|
| Batch: | Mfg Date: | Net Contents (pounds):<br>(gallons): |