



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Antimicrobials Division (7510P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

67071-112

Date of Issuance:

9/16/19

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

ACTICIDE C 1-F

Name and Address of Registrant (include ZIP Code):

Cheryl Woodward
Sr. Regulatory Specialist
Thor Specialties, Inc.
50 Waterview Drive
Shelton, CT 06484

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Zeno Bain, Product Manager 33
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

Date:

9/16/19

2. You are required to comply with the data requirements described in the DCI identified below:

a. 5-Chloro-2-methyl-4-isothiazolin-3-one GDCI-107103-1709

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Reevaluation Team Leader (Team 36): <http://www2.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobial-division>

3. Make the following label changes before you release the product for shipment:

- Revise the EPA Registration Number to read, “EPA Reg. No. 67071-112.”

4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements 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 Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 04/18/2019

If you have any questions, please contact Jake McFarley by phone at (703) 347-0123, or via email at McFarley.Jake@epa.gov.

Enclosure

{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 # C 1-F-00 V001 – 12-SEP-2019

ACTICIDE® C 1-F



Precautionary Statements: Hazards to Humans and Domestic Animals **DANGER**

CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE. HARMFUL IF ABSORBED THROUGH SKIN. HARMFUL IF SWALLOWED. DO NOT GET IN EYES OR ON CLOTHING. AVOID CONTACT WITH SKIN. PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT MAY CAUSE ALLERGIC REACTION IN SOME INDIVIDUALS. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, CHEWING GUM, USING TOBACCO, OR USING THE TOILET.

Mixers, loaders, and others exposed to product must wear the following Personal Protective Equipment (PPE):

- long-sleeve shirt and long pants
- chemical resistant gloves and apron
- shoes plus socks
- goggles or face shield.

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.

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 public 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 sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

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 [*]adhesives, [*]tackifiers, [*]dispersed pigments, [*]building materials, [*]polymer latices, [*]paints and coatings, [*]aqueous compositions, and in [*]household consumer, industrial, janitorial products. READ AND FOLLOW THE DIRECTIONS FOR USE ON THE ACCOMPANYING INFORMATION SHEET.

[*Not approved for these uses in the State of California]

ACTIVE INGREDIENTS:

5-Chloro-2-methyl-4-isothiazolin-3-one..... 1.11%

OTHER INGREDIENTS:..... 98.89%

TOTAL:..... 100.00%

KEEP OUT OF REACH OF CHILDREN **DANGER**

See Side panel for additional precautionary statements

FIRST AID	
If in Eyes:	<ul style="list-style-type: none"> ➤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 on Skin:	<ul style="list-style-type: none"> ➤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 Swallowed:	<ul style="list-style-type: none"> ➤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 Inhaled:	<ul style="list-style-type: none"> ➤Move person to fresh air. ➤If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. ➤Call a poison control center or doctor for further treatment advice
Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.	
For Transportation / Spill Emergency: Call Chemtrec at 1-800-424-9300	

EPA Reg. No. 67071-XXX

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
Tel. (203) 516-6980

PHYSICAL AND CHEMICAL HAZARD

This product is corrosive to mild steel.

STORAGE AND DISPOSAL

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

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

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. If waste cannot be disposed 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

Non-refillable container. Do not reuse or refill this container. Triple rinse container promptly after emptying. Triple rinse as follows: [For containers < 5 gallons in size]

– Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. [For containers > 5 gallons in size] - 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 if available or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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.

UN 3265

, CORROSIVE LIQUID, ACIDIC,

ORGANIC, N.O.S. (5-Chloro-2-methyl-4-isothiazolin-3-one), 8, PG-II

Batch:	Mfg Date:	Net Contents (pounds): (gallons):
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ACCEPTED

Sep 16, 2019

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 67071-112

ACTICIDE® C 1-F INFORMATION SHEET



THIS ACTICIDE® C 1-F INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT OF ACTICIDE® C 1-F

DIRECTIONS FOR USE

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

ACTICIDE® C 1-F can be used as both a preservative (for raw materials and compounded / finished product) or as a knock-down biocide or in-process sterilant biocide. Depending on the nature or severity of microbial contamination, if analysis indicates a loss of active ingredient and further antimicrobial control is necessary, products or intermediates may be dosed with additional ACTICIDE® C 1-F at a level to ensure that the final use-dilution product will not exceed the maximum concentration indicated for the label-use category.

RAW MATERIALS / IN-PROCESS STERILIZATION

[*]Industrial Process Wash Water

ACTICIDE® C 1-F microbiocide is recommended for the control of bacteria and fungi in the storage of process wash waters.

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

0.05 – 0.30%

0.5 – 3.0 LB per 1000 LB wash water
(500 – 3000 ppm ACTICIDE® C 1-F)

[*]Polymer dispersions / Latices / Solutions / Resins

Includes polymer emulsions, latexes, dispersions, suspensions, solutions, resins and semi-solid compositions. This encompasses polymers based on synthetic monomers as well as natural monomers derived from biomass or biological synthesis.

ACTICIDE® C 1-F is recommended for the prevention of bacterial and fungal spoilage of liquid (aqueous) and semi-solid polymers during manufacture, transport and storage.

Note: To insure uniform mixing, add ACTICIDE® C 1-F microbiocide to latex or solutions slowly with agitation. The actual concentrations required will depend upon such factors as the specific substance to be treated, frequency of repeated microbial contamination expected and level of protection required.

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

0.05 – 0.33%

0.5 – 3.3 LB per 1000 LB emulsion
227g – 1.5 KG per 454 KG of emulsion
(500 – 3300 ppm ACTICIDE® C 1-F)

[*]Mineral Slurries and Aqueous Pigments

ACTICIDE® C 1-F microbiocide is recommended for the control of bacteria and fungi in the manufacture and storage of dispersed pigments such as kaolin clay, montmorillonite clay, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate, dispersed colorants and kieselguhr used in paint and paper production.

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

0.06 – 0.225%

0.6 – 2.25 LB per 1000 LB fluid
250 – 1020 grams per 453 KG of fluid
(600 – 2250 ppm ACTICIDE® C 1-F)

ACTICIDE® C 1-F INFORMATION SHEET



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OF ACTICIDE® C 1-F**

DIRECTIONS FOR USE

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

FINISHED / COMPOUNDED PRODUCTS

[*]Adhesives and Tackifiers

ACTICIDE® C 1-F microbiocide is recommended as an in-container preservative for the control of bacteria and fungi in water soluble and water dispersed adhesives such as animal glues, vegetable glues, natural rubber latices, polyvinyl acetate, styrene-butadiene and acrylic latices.

ACTICIDE® C 1-F microbiocide is recommended as a preservative for tackifiers derived from rosin and hydrocarbon resins.

For storage at high temperatures and humidity, or for highly susceptible systems, use up to 0.3% (3.0 LB per 1000 LBS formulation).

Not for food use.

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

0.05 – 0.165%

0.5 – 1.65 LB per 1000 LBS formulation
(500 – 1650 ppm ACTICIDE® C 1-F)

[*]Building Materials

ACTICIDE® C 1-F 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, grouting, and concrete admixtures.

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

0.05 – 0.165%

0.5 – 1.65 LB per 1000 LB of fluid
(500 – 1650 ppm ACTICIDE® C 1-F)

[*]Paints and Coatings

ACTICIDE® C 1-F microbiocide is recommended as an in-container preservative for the control of bacteria and fungi in water-based coatings such as paper, wood coatings and paints used for architectural, product finishes and special purpose coatings.

For storage during high temperatures and humidity or for highly susceptible systems.

0.05 – 0.165%

0.5 – 1.65 LB per 1000 LB fluid
227 – 750 grams per 454 KG fluid
(500 – 1650 ppm ACTICIDE® C 1-F)

Up to 0.3%

3.0 LB per 1000 LB fluid
(3000 ppm ACTICIDE® C 1-F)

Specifically for a wood coating, ACTICIDE® C 1-F is recommended for the protection of wood and wood products such as landscape timbers, fences, posts, pilings, cross ties, decks and similar exterior structures, from mold and mildew. As a pressure treatment for mold and mildew control for southern yellow pine, hemlock, ponderosa pine and other soft woods. Thoroughly wet and allow to dry.

Under extreme mildew conditions. Thoroughly wet and allow to dry.

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

1.9 – 6.6 LB per 1000 GAL preservative
(29 – 101 FL OZ per 1000 GAL)
(267 – 840 ppm of ACTICIDE® C 1-F)

13.25 – 26.5 LB per 1000 GAL wood
treatment solution
(1.6 – 3.2 GAL per 1000 GAL)
(1600 – 3200 ppm of ACTICIDE® C 1-F)

ACTICIDE® C 1-F INFORMATION SHEET



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OF ACTICIDE® C 1-F**

DIRECTIONS FOR USE

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Special purpose coating uses

Use as a preservative for:

- [*]Electrodeposition systems
- [*]Photo/photoplate 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
- [*]Spin finish coatings for fibers.

[*]PHOTO/PHOTOPLATE PROCESSING, FOUNTAIN SOLUTIONS, AND INK/INK COMPONENTS

ACTICIDE® C 1-F microbicide is recommended for the control of bacteria, fungi, and biofilms in photo/photoplate processing chemicals, stabilizing solutions, fountain solutions, printing inks and ink components. ACTICIDE® C 1-F is recommended for water-based printing inks such as flexographic, gravure, screen and ink jet types. ACTICIDE® C 1-F 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.

0.1 – 0.33%
by weight of total formulation
(1000 – 300 ppm ACTICIDE® C 1-F)

CONCENTRATES:

ACTICIDE® C 1-F should be added to concentrates at a level to ensure that the final use dilution of the product will contain 0.1 to 0.33% ACTICIDE® C 1-F.

To ensure uniform mixing add ACTICIDE® C 1-F microbicide to the product slowly with agitation. The actual concentration required will depend upon the specific substance to be treated, frequency of repeated contamination expected and level of protection required.

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

[*]ELECTRODEPOSITION

ACTICIDE® C 1-F microbicide 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® C 1-F microbicide may be added through the components of the electrodeposition paint prior to their addition to the electrodeposition system.

ACTICIDE® C 1-F INFORMATION SHEET



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DIRECTIONS FOR USE

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Tankside Addition to Electrodeposition Systems:

ACTICIDE® C 1-F microbiocide should be dispensed into the recirculating rinse system, ultrafilter permeate, or final distilled rinse system at a point to insure uniform mixing.

When the system is noticeably fouled, add 650 to 2245 ppm ACTICIDE® C 1-F microbiocide (6.5 to 22.5 gallons per 10,000 gallons of fluid in the system). Repeat until control is achieved.

When microbial control is evident, add 320 to 1000 ppm ACTICIDE® C 1-F microbiocide (3.2 to 10 gallons per 10,000 gallons of fluid in the system) weekly or as needed to maintain the system.

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]*

[*]Preservative for Aqueous Compositions

ACTICIDE® C 1-F microbiocide is recommended as an in-container preservative for the control of bacteria and fungi in aqueous products such as:

- [*]fiber glass sizing solutions
- [*]aqueous emulsions
- [*]aqueous dispersions
- [*]surfactants
- [*]surface preparation compounds
- [*]foam control products
- [*]nutrient solutions

CONCENTRATES:

ACTICIDE® C 1-F microbiocide should be added to concentrates at a level to ensure that the final use dilution of the product will contain 0.05 to 0.33% ACTICIDE® C 1-F.

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

0.05 – 0.33%

0.5 – 3.3 LB per 1000 LB aqueous product
227 g – 1.5 KG per 454 KG of aqueous product
(500 – 3300 ppm ACTICIDE® C 1-F)

ACTICIDE® C 1-F INFORMATION SHEET



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OF ACTICIDE® C 1-F**

DIRECTIONS FOR USE

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[*]Household Consumer, Industrial, Janitorial Products

Not for direct or indirect food contact.

For the control of bacteria and fungi in liquid and solid soaps, liquid and solid cleaners, liquid and solid detergents, liquid and solid laundry products, liquid and solid dishwashing detergents, waxes, polishes, liquid and solid fabric treatment/refresher products, liquid and solid air fresheners/deodorizers, car care products, and other similar cleaners.

ACTICIDE® C 1-F may also be used for the control of bacteria and fungi in package utility products such as pre-moistened sponges and mops.

CONCENTRATES:

ACTICIDE® C 1-F microbicide may be added to those products formulated as concentrates which are in turn diluted for use at a level to ensure that the final use-dilution product will contain between 0.04 and 0.15% ACTICIDE® C 1-F microbicide.

0.04 – 0.15%

0.4 – 1.5 LB per 1000 LB product
180 – 680 grams per 453.6 KG product
(400 – 1500 ppm ACTICIDE® C 1-F)

APPLICATION IN WIPES

ACTICIDE® C 1-F may also be used for the control of bacteria and fungi in solutions that are then put into/onto wet wipes for use in industrial, commercial, residential and household uses cited above. This product is not for use in treating/preserving solutions that will be incorporated into personal care wipes, baby wipes, or food contact wipes.

For solutions incorporated into household wipes, do not exceed 0.10% ACTICIDE® C 1-F.

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

0.04 – 0.10%

0.4 – 1.0 LB per 1000 LB product
180 – 454 grams per 453.6 KG product
(400 – 1000 ppm ACTICIDE® C 1-F)

[*]In-Container Preservative for Pesticide Formulations

ACTICIDE® C 1-F is to be used during the manufacturing process to maintain microbial control. Prior to filling the final finished product, the 5-Chloro-2-methyl-4-isothiazolin-3-one (CIT) must be deactivated.

ACTICIDE® C 1-F microbicide is recommended as an in-container preservative for the control of bacteria and fungi in aqueous pesticide formulations.

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

0.05 – 0.33%

0.5 – 3.3 LB per 1000 LB aqueous product
227 g – 1.5 KG per 454 KG of aqueous product
(500 – 3300 ppm ACTICIDE® C 1-F)