



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

September 21, 2016

Lucy Cremese  
Thor Specialties, Inc.  
50 Waterview Drive  
Shelton, CT 06484

Subject: Notification per PRN 98-10 – Updating Precautionary Statements  
Product Name: Acticide 45  
EPA Registration Number: 67071-6  
Application Date: September 15, 2016  
Decision Number: 521524

Dear Ms. Cremese:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

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 have any questions, you may contact Terria Northern at 703-347-0265 number or via email at [northern.terria@epa.gov](mailto:northern.terria@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Julie Chao", written over a horizontal line.

for

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



**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and wildlife. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public waters unless this product is specifically identified and addressed in an 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. Do not contaminate water by cleaning of equipment or disposal of waste. Apply this pesticide only as specified on this label.

**STORAGE AND DISPOSAL**

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

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.

**NOTIFICATION**

67071-6

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

09/21/2016

**ACTICIDE® 45**

ACTIVE INGREDIENT: 2-n-Octyl-4-isothiazolin-3-one 46.5%  
 INERT INGREDIENTS: 53.5%  
 TOTAL: 100.0%

**KEEP OUT OF REACH OF CHILDREN  
 DANGER - PELIGRO**

See Side panel for additional precautionary statements

| FIRST AID  |  |
|--|--|
| <b>If Swallowed:</b>   | <ul style="list-style-type: none"> <li>➢ Call a poison control center or doctor immediately for treatment advice.</li> <li>➢ Have person sip a glass of water if able to swallow.</li> <li>➢ Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>➢ Do not give anything by mouth to an unconscious person.</li> </ul> |
| <b>If on Skin:<br/>Or Clothing</b>   | <ul style="list-style-type: none"> <li>➢ Take off contaminated clothing.</li> <li>➢ Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>➢ Call a poison control center or doctor for treatment.</li> </ul>   |
| <b>If Inhaled:</b>   | <ul style="list-style-type: none"> <li>➢ Move person to fresh air.</li> <li>➢ If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>➢ Call a poison control center or doctor for further treatment.</li> </ul>   |
| <b>If in Eyes:</b>   | <ul style="list-style-type: none"> <li>➢ Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>➢ Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>➢ Call a poison control center or doctor for treatment advice.</li> </ul>  |
| HOT LINE NUMBER: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information. |  |
| Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.   |  |

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

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

**CORROSIVE.** Causes permanent, irrevocable eye damage and skin burns. May cause allergic skin reaction. May be fatal if swallowed. Harmful if absorbed through skin or inhaled. Prolonged or repeated overexposure can cause central nervous system effects and kidney and liver damage. **DO NOT GET IN EYES, ON SKIN, ON CLOTHING. WEAR GOGGLES OR FACE SHIELD. WEAR PROTECTIVE CLOTHING AND RUBBER GLOVES. AVOID BREATHING VAPOR OR MIST. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, CHEWING GUM OR USING TOBACCO, OR USING THE TOILET. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE.**

**DIRECTIONS FOR USE**

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

ACTICIDE® 45 is an industrial microbicide to be used for the protection of paint films; coatings; including wood coatings and wood coating solutions including \*sapstain control; adhesives; \*building materials including \*sealants; \*mastics; \*caulks; \*joint cements; \*spackling; \*stucco; \*grouts; \*applied film/wet state of adhesives, tackifiers, paints, coatings and other building materials; \*hides; \*leather; \*textiles; \*fibers; \*fabrics; \*plastic/PVC/vinyl products; metalworking fluids; hydraulic fluids against attack by bacteria, mildew, and fungus. **READ AND FOLLOW THE DIRECTIONS FOR USE ON THE ACCOMPANYING INFORMATION SHEET.**

**\* Not approved for these uses in the State of California  
 EPA Reg. No. 67071-6 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:  
 Manufactured By: Thor Químicos de México SA de CV;  
 Autopista Mex-Qro Km 182; Pedro Escobedo,  
 Querétaro; México.  
 Manufactured For: Thor GmbH  
 U.S. Office: Thor Specialties, Inc.  
 50 Waterview Drive, Shelton, CT 06484 USA  
 Tel. (203) 516-6980]

**UN 2922**, CORROSIVE LIQUID,  
 TOXIC, N.O.S. (2-Octyl-2H-isothiazol-3-one), 8 (6.1), PG-II

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

# ACTICIDE® 45 INFORMATION SHEET



**THIS ACTICIDE® 45 INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT OF ACTICIDE® 45**

## DIRECTIONS FOR USE

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

### **DRY FILM PRESERVATIVE FOR PAINTS, COATINGS, WOOD COATINGS, WOOD COATING SOLUTIONS:**

**0.02 – 0.29%**

0.02 – 0.29 LB / PER 100 LB PRODUCT

Control of fungi in latex and oil-based paints and coatings (non-food contact), including colorants used in paints and coatings.

The amount of ACTICIDE® 45 needed to protect dry and the applied/wet-states of paints, coatings, colorants used in paints and coatings, and wood coatings varies with the type of formulation and exposure conditions of the film (e.g., indoor vs. tropical climates). The Thor Specialties Technical Department will assist in the determination of the optimum quantity required by your product. This facility is especially helpful where a formulation has a greater than usual susceptibility to microbiological spoilage and/or is to be used in an area where the environmental conditions are particularly conducive to fungal growth.

ACTICIDE® 45 may be used at higher concentrations so long as the end-use product/article contains a maximum concentration of not greater than 1320 ppm OIT.

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### **\*SAPSTAIN CONTROL**

1 – 5 QT / PER 250 GAL WATER

To control sapstain on debarked logs and lumber, prepare a working solution by mixing with water. The working solution must be mixed thoroughly before and during use. Apply the working solution with a spray or dip system that coats all surfaces of the wood evenly and thoroughly. Treated wood must not be used or placed where it may contact food or animal feed.

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

### **DRY FILM PRESERVATIVE FOR ADHESIVES**

**0.02 – 0.29%**

0.02 – 0.29 LB / PER 100 LB PRODUCT

Prevention of bacterial and fungal growth in adhesives (non-food contact).

The amount of ACTICIDE® 45 needed to protect dry and the applied/wet-states of industrial adhesives varies with the type of formulation. The Thor Specialties Technical Department will assist in the determination of the optimum quantity required by your product. This facility is especially helpful where a formulation has a greater than usual susceptibility to microbiological spoilage and/or is to be used in an area where the environmental conditions are particularly conducive to bacterial and fungal growth.

# ACTICIDE® 45 INFORMATION SHEET



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## DIRECTIONS FOR USE

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|  |  |
|--|--|
| <b>DRY FILM PRESERVATIVE FOR BUILDING MATERIALS INCLUDING:</b>   | <b>0.02 – 0.29%</b>                      |
| <b>*SEALANTS</b>   | 0.02 – 0.29 LB / PER 100 LB PRODUCT      |
| <b>*MASTICS</b>  |  |
| <b>*CAULKS</b>   |  |
| <b>*JOINT CEMENTS</b>  |  |
| <b>*SPACKLING</b>  |  |
| <b>*STUCCO</b>   |  |
| <b>*GROUTS</b>   |  |
| <b>*CONCRETE ADMIXTURES</b>  |  |
| Prevention of bacterial and fungal growth in building materials (non-food contact). The amount of ACTICIDE® 45 needed to protect dry and the applied/wet-states of building materials varies with the type of formulation and exposure conditions of the film (e.g., indoor vs. tropical climates). The Thor Specialties Technical Department will assist in the determination of the optimum quantity required by your product. This facility is especially helpful where a formulation has a greater than usual susceptibility to microbiological spoilage and/or is to be used in an area where the environmental conditions are particularly conducive to bacterial and fungal growth. |  |
| <b>*Not approved for these uses in the state of California</b>   |  |
| <b>*APPLIED FILM / WET STATE PRESERVATIVE</b>  | <b>0.02 – 0.29%</b>                      |
| Control of bacteria and fungi in the applied film/wet state of adhesives, tackifiers, paints, coatings and building materials (such as fire-proofing and sound-proofing coatings) for the purpose of protecting the applied film/wet state prior to a full cure.   | 0.02 – 0.29 LB / PER 100 LB PRODUCT      |
| <b>*Not approved for this use in the state of California</b>   |  |
| <b>*LEATHER PRESERVATION</b>   | <b>0.014 – 0.06%</b>                     |
| Prevention of bacterial and fungal growth on wet leather stock such as pickled, chrome-tanned and vegetable-tanned hides and leather, including wet-blues. The optimum use concentrations will depend on the manufacturing process, the required properties of the product and the environment to which it will be exposed. Levels will be particularly affected by natural fat content, skin thickness, storage time and tannery conditions.  | 0.014 – 0.06 LB / PER 100 LB PELT WEIGHT |
| <b>*Not approved for this use in the state of California</b>   |  |

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## DIRECTIONS FOR USE

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### **\*TEXTILE, \*FIBER AND \*FABRIC PRESERVATION**

**0.1 – 0.25%**

Prevention of bacterial and fungal growth, in the presence of moisture, in/on fibers, textiles and fabrics, including carpets and backing materials, natural and man-made. The optimum use concentrations will depend on the manufacturing process, the properties of the product and the environment to which it will be exposed. Levels will be particularly affected by the fabric thickness, proximity to the air circulation, storage time and ambient humidity.

0.1 – 0.25 LB / PER 100 LB PRODUCT

**\*Not approved for these uses in the state of California**

### **\*PRESERVATION OF PLASTIC/PVC/VINYL PRODUCTS**

**0.1 – 0.5%**

Control of mildew, fungi and bacteria in PVC flooring and wall coverings, coated fabrics for upholstery, interior automotive parts, refrigerator gaskets, shower curtains, mattress covers, artificial leather, rain wear, protective wear, shoes, boots, PVC slippers and gloves.

0.1 – 0.5 LB / PER 100 LB FORMULATION

Or

**0.05 – 0.5%**

0.05 – 0.5 LB / PER 100 LB PLASTISOL

ACTICIDE® 45 is also recommended in situations generally subject to external environmental variations such as use in automotive landau tops, external automotive trim, tarpaulins, tents, awnings, indoor/outdoor carpeting, garden hoses, pool and pond liners, marine upholstery, swimming pool liners, roof liners, lining foils, cable casings, PVC tiles and fibers.

**0.15 – 0.75%**

0.15 – 0.75 LB / PER 100 LB FORMULATION

Mode of application for plastic/PVC/vinyl products. ACTICIDE® 45 can, in most of the standard methods of plastics production, be introduced in different phases of the process cycle. An absolutely homogeneous incorporation into the material is essential for a good antimicrobial activity. The mixture of the product with fluid additives should be ensured by the use of a good mechanical stirring device. The product may never be introduced directly into fillers and pigments. ACTICIDE® 45 is first dissolved in the plasticizer. Subsequently, the rest of the additives are mixed in and homogeneously worked together. The product can also be homogeneously distributed in finished plastisols by intensive mixing.

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

# ACTICIDE® 45

## INFORMATION SHEET



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### DIRECTIONS FOR USE

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#### METALWORKING FLUID PRESERVATION

Control of fungi in the manufacture and use of soluble, synthetic, and semi-synthetic metalworking fluids. ACTICIDE® 45 is not recommended for use in systems or fluids which are subject to foaming or systems with high levels of tramp oil. ACTICIDE® 45 should be directly dispensed into the metalworking concentrate or use-dilution metalworking fluid using a metered pump or other point-of-use device and uniformly dispersed throughout the liquid. Greatly contaminated systems must be cleaned before treatment is begun.

#### FLUID CONCENTRATES

ACTICIDE® 45 should be added to the metalworking concentrate at a level to ensure that the final use-dilution fluid will contain 55-167 ppm of product (25-75 ppm active ingredient).

#### USE-DILUTION FLUID

For a noticeably fouled system, add 0.47-1.44 pounds of ACTICIDE® 45 per 1,000 gallons of emulsion. This will provide 25-75 ppm active ingredient. Repeat until control is achieved. For maintenance of a non-fouled system, add 0.09-0.58 pounds of ACTICIDE® 45 per 1,000 gallons of emulsion every 4 weeks. This will provide 5-30 ppm active ingredient. A higher dose range and /or increased frequency of treatment may be required, depending upon 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.

#### HYDRAULIC FLUID PRESERVATION

Preservative in the manufacture and use of soluble oils, high water-based and emulsion hydraulic fluids. ACTICIDE® 45 should be directly dispensed into the hydraulic concentrate or use-dilution hydraulic fluid using a metered pump or other point-of-use device and uniformly dispersed throughout the fluid. Greatly contaminated systems must be cleaned before treatment is begun.

#### FLUID CONCENTRATES

ACTICIDE® 45 should be added to the hydraulic fluid concentrate at a level to ensure that the final use-dilution fluid will contain 55-167 ppm of product (25-75 ppm active ingredient).

#### USE-DILUTION FLUID

For a noticeably fouled system, add 0.47-1.44 pounds of ACTICIDE® 45 per 1,000 gallons of emulsion. This will provide 25-75 ppm active ingredient. Repeat until control is achieved. For maintenance of a non-fouled system, add 0.09-0.58 pounds of ACTICIDE® 45 per 1,000 gallons of emulsion every 4 weeks. This will provide 5-30 ppm active ingredient. A higher dose range and/or increased frequency of treatment may be required, depending upon 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.