

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAR 21 2001

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

Attention: Frank Surawski, Ph.D.  
Regulatory Affairs Coordinator

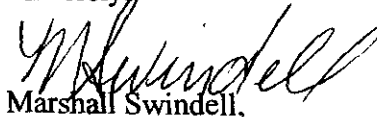
Subject: Acticide 45  
EPA Reg. No. 67071-6  
Notification Dated March 8, 2001

This will acknowledge receipt of your notification to include "wood coating" to the coating use on the existing label, submitted under the provisions of FIFRA Section 3 (c)9. Based on a review of the submitted material, the following comments apply.

The notification is in compliance with PR-Notice 98-10 and is acceptable. The information has been made part of your file..

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217.

Sincerely,



Marshall Swindell,  
Product Manager Team 33,  
Regulatory Management Branch I  
Antimicrobials Division (7510W)

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							



United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☒ Other

OPP Identifier Number

234210

## Application for Pesticide - Section I

1. Company/Product Number THOR/67071-6	2. EPA Product Manager M. Swindell	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) THOR/Acticide™ 45	PM# 33	
5. Name and Address of Applicant (Include ZIP Code) Thor GmbH, D-67346 Speyer, GERMANY U.S. Agent: Acti-Chem Specialties, Inc. 56 Quarry Road, Trumbull, CT 06611 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(ii), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below. <i>(2nd notification)</i>	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of addition of clarifying words, wood coating

This notification is consistent with the provisions of PR Notice 95-2, PR 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 95-2, 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

## Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Geri Werdig (local contact)	Title Manager, Regulatory Affairs, PRA	Telephone No. (Include Area Code) -202-546-3260

## Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received

(Stamped)

2. Signature <i>Anthony T. Coscia</i>	3. Title Manager, Regulatory Affairs, Acti-Chem Specialties
4. Typed Name Anthony T. Coscia	5. Date 3/8/01

3 9 8



# ACTICIDE® 45

## MILDEWCIDE

ACTICIDE® 45 is an industrial microbicide to be used for the protection of paint films, coatings including wood coatings and adhesives against attack by mildew.

### 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

### STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting. Avoid alcohol.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF IN EYES: Hold eyelids open and flush with steady, gentle stream of water for 15 minutes. Get medical attention.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Reg. No. 67071-6  
Manufactured By/For:  
Thor GmbH  
D-67346 Speyer, Germany  
Tel. (06232) 6360

EPA Est. No. 67071-EN-001  
U.S. Office:  
ACTI-CHEM Specialties, Inc.  
56 Quarry Road  
Trumbull, CT 06611 U.S.A.  
Tel. (203) 365-6530

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

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

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

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

**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, OR USING TOBACCO.

**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.

**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.

**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 AND ADHESIVES:** Acticide® 45 mildewcide is recommended for the control of fungi in latex and oil-based paints, coatings, wood coatings and adhesives (non-food contact).

Add two to five pounds of Acticide® 45 per 100 gallons of paint or wood coating. See the accompanying technical bulletin for more detail on the use of stabilizers, optimum pH conditions of use and incompatibilities with other ingredients of paints and wood coatings.

**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 by 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.

# ACTICIDE<sup>®</sup> 45

## TECHNICAL BULLETIN

### GENERAL DESCRIPTION

ACTICIDE<sup>®</sup> 45 is an effective mildewcide specifically formulated for the protection of aqueous and solvent based products from fungal growth in the dry film state.

### COMPOSITION:

ACTICIDE<sup>®</sup> 45 is described chemically as 2-n-Octyl-4-isothiazolin-3-one. It is one of a comprehensive range of biocides manufactured by Thor worldwide and is metal and formaldehyde free.

### TYPICAL PROPERTIES:

ACTICIDE<sup>®</sup> 45 has the following typical properties:

Appearance:	Clear yellow liquid
Flash point:	92° C
Boiling point:	187° C
Freezing Point:	-13° C
Odor:	No distinct odor
Specific gravity:	1.03 g/cm <sup>3</sup> (20° C)
Solubility:	Soluble in alcohols, mineral spirits. Insoluble in water.
Viscosity:	49.5 m Pas, 20° C (capillary)

**DIRECTIONS FOR USE:** It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

### BIOCIDAL PROPERTIES:

ACTICIDE<sup>®</sup> 45 is very effective in preventing the growth of fungi known to degrade paint films, wood coatings and coatings in the dry state. It also shows some activity against bacterial growth in the wet state. Product activity applies to a wide spectrum of fungi commonly associated with product failure. Some of these organisms are as follows:

Alternaria sp.	Ceratocystis sp.
Aspergillus sp.	Cladosporium sp.
Aureobasidium sp.	Sclerophoma sp.
Candida albicans (yeast)	Streptomyces sp.

**APPLICATIONS:**

**ACTICIDE® 45** is recommended for the dry state protection of films for most interior and exterior paints, wood coatings and coatings including aqueous and solvent based paints and wood stains, varnishes, textured coatings, adhesives (non-food contact), fillers and sealants. In addition, **ACTICIDE® 45** in solvents such as white spirits and kerosene provides an ideal fungicidal pretreatment for surfaces prior to coating.

**QUANTITIES OF USE:**

The amount of **ACTICIDE® 45** needed to protect dry paint films and wood coatings varies with the type formulation and exposure conditions of the film [coating] (e.g., indoor vs. tropical climates). Generally two to five pounds of **ACTICIDE® 45** are used per 100 gallons of paint [product]. Similar application levels are used with oil-based paints, wood coatings or coatings. In industrial adhesives mildew resistance is obtained using such levels on a weight/weight basis -- i.e., two to five pounds of **ACTICIDE® 45** per 1000 pounds of adhesive. Also, reported uses of **ACTICIDE® 45** with zinc oxide in paints have been shown to be very effective. For example, with three pounds per gallon of the **ACTICIDE® 45**, 25 to 50 pounds of zinc oxide can improve performance significantly, especially under stringent conditions such as in a tropical environment. The Acti-Chem Specialties Technical Department will assist in the determination of the optimum quantity required by your product. This facility is especially helpful where information is required about a formulation which 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.

**METHOD OF USE:**

**ACTICIDE® 45** can be incorporated with most paint and coating products [into the dilute] at any stage in the manufacturing process. It is preferably added in the let-down stage during manufacture of the paint or wood coating. Add slowly with good agitation just before addition of thickener. **ACTICIDE® 45** is used in oil-based paints at a level similar to those used in latex products. The use of lithopone or other sulfide type pigments is not recommended with this Acticide. Additional solvent glycols or cellosolves may be useful to help dissolution.

**COMPATIBILITY:**

**ACTICIDE® 45** is compatible with most raw materials used in microbiologically susceptible products. However, it may be deactivated by ammonia and amines at higher pH's. Contact of **ACTICIDE® 45** with strong oxidizing or reducing agents should also be avoided. Stabilizers can be used to protect the **ACTICIDE® 45**. Acti-Chem's technical service facilities will gladly assist in identifying a suitable stabilizer, or a method of stabilization, appropriate to your particular formulation.

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**PRECAUTIONARY STATEMENTS:**

The following precautions should be observed in handling and using **ACTICIDE® 45**.

HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS  
DANGER  
KEEP OUT OF REACH OF CHILDREN

**STATEMENT OF PRACTICAL TREATMENT**

**IF SWALLOWED:** Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting. Avoid alcohol.

**ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**IF IN EYES:** Hold eyelids open and flush with steady, gentle stream of water for 15 minutes. Get medical attention.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

**SAFETY AND HANDLING:**

It is recommended that protective clothing be worn when handling **ACTICIDE® 45**. This material is corrosive, and chemical resistant gloves such as those made from butyl rubber should be worn and immediately discarded if there is any indication of tears or break-through. Respiratory protection is required if exposure limits are exceeded. Chemically resistant aprons are advisable.

**PACKAGING:** **ACTICIDE® 45** is delivered in plastic drums containing 25 kg net and in polyethylene lined steel drums containing 200 kg net.

**ECOLOGY:** **ACTICIDE® 45** is toxic to fish and to 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. 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.

**TOXICOLOGY:** Detailed examination by independent industrial toxicological laboratories has shown **ACTICIDE® 45** to have the following toxicity:

Acute oral toxicity:	LD <sub>50</sub> (rat) 279 mg/kg
Acute dermal toxicity:	LD <sub>50</sub> (rat) > 2000 mg/kg
Acute Inhalation:	LC <sub>50</sub> (rat) 0.60 mg/L (4 hr)
Primary skin irritation (rabbit):	Severe
Skin sensitization (guinea pig):	Delayed contact hypersensitivity

**STORAGE :**

**ACTICIDE® 45** should be stored in the original containers and, in accordance with good stock rotation practice, should be used within 12 months of purchase, being protected from extremes of temperature during storage

**TRANSPORTATION:** DOT hazard class 8 (corrosive material). DO NOT STORE OR SHIP IN UNLINED METAL CONTAINERS. USE ONLY ORIGINAL CONTAINERS.

**SPILLAGE / DISPOSAL**

Spilled material should be diked and absorbed into an inert material such as clay or vermiculite and the absorbent transferred to a pail or other suitable vessel. Treat with freshly prepared 5% solutions of sodium hypochlorite and sodium bicarbonate mixed together in order to deactivate the **ACTICIDE® 45**. Local surfaces of the spill may be decontaminated with a mixture of 5% sodium hypochlorite solution and a 5% solution of sodium bicarbonate.

The information contained herein is given without any warranty express or implied, except that such information is to the best of our knowledge and belief, true and accurate. Thor recommends that customers independently test and evaluate its products in order to decide their safety and effectiveness.

In submitting this information, no liability is assumed nor permission given to induce or recommend to practice any patented invention without a license.

**MANUFACTURED BY/FOR:**

Thor GmbH  
Speyer, Germany

December 1994  
Revised 10/29/97, 7/10/99 & 2/16/01

**ACTI-CHEM SPECIALTIES, INC.**  
56 Quarry Road, Trumbull, CT 06611 USA TEL: (203) 365-6530 FAX: (203) 365-6537

2nd notef