

PM,33

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

67071-6

JUL 2 1 1999

NOTICE OF PESTICIDE:

x Registration

__ Reregistration

(under FIFRA, as amended)

Name of Pesticide Product:

Term of Issuance: Conditional

Acticide 45

Name and Address of Registrant (include ZIP Code):

Thor Chemie GmbH Landwehrstrasse 1 D-67346 Speyer, Germany

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration 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/reregistered 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

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

- 1. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
 - 2. Make the following label changes:
 - Revise the EPA Registration Number to read, "EPA Reg. No. "67071-6". a.

Signature of Approving Official: Marshall Swindell, PM 33 Whumolell Regulatory Management Branch 1 Antimicrobial Division (7510C)

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EPA Form 8570-6

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- b. Submit two copies of the revised final printed label for the record.
- 2. The technical review of the Hydrolysis study was found to be valid. However, the following data information must be submitted:
 - a. Method detection limits for the HPLC.
 - b. Preliminary Data Sheet along with the Acticide OIT label (revised: 10/97) by Acti-Chem Specialties, states that "(Acticide OIT) is soluble in alcohols, minerals, insoluble in water." The hydrolysis study report (Covance, MRID# 447232-01, page 15) states: "solubility (of Acticide OIT) is: 0.525 g/L (at 22 C in water)". Clarification must be submit to reconcile the contradiction on the solubility issue.
- 3. This product is being registered on the condition that the submitted acute oral toxicity to quail study (MRID # 44859001) is found to be acceptable and satisfy the data requirements for this registration. This conditional registration will expire automatically one (1) year from the date of this Registration Notice. If you fail to satisfy the conditions imposed in this notice of registration, EPA may issue a a Notice to Cancel under Section 6(e) of FIFRA.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 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.

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

Sincerely.

Marshall Swindell

Product Manager 33

Regulatory Management Branch 1 Antimicrobial Division (7510C)

Enclosure

ACCEPTED with COMMENTS in EPA Letter Dated:

JUL 2 1 1999

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. Acticide 45 label December 1994 Page 1 of ?

Revised 10/29/97(7/19/99)

stered under EPA Reg. No. ACTICIDE 45

MILDEWCIDE

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

ألام تنتبح بيها والفار

ACTIVE INGREDIENT:

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46.5%	-Octyl-4-isothiazolin-3-one	2-n-0
53.5%	INGREDIENTS	INERT
100%	TOTAL	

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.

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

<u>IF IN EYES:</u> 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 STATEMENT MANUFACTURED BY/FOR:

Thor Chemie GmbH . Speyer, Germany

ACCEPTED with COMMENTS in EPA Letter Dated:

.07/20/99

JUL 2 1 1999

Under the Federal Insecticide, Funcicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No.

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PRECAUTIONARY STATEMENTS

PEST REG ASSO DC

HAZARDS TO BUHANS AND DOMESTIC ANIHALS

CORROSIVE, CAUSES PERMANENT, IRREVOCABLE EYE DAMAGE AND SKIN DAMAGE. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL IF INHALED OR SWALLOWED. ABSORBED THROUGH THE SKIN. PROLONGED OR REPEATED IF HARMFUL OVEREXPOSURE CAN CAUSE CENTRAL NERVOUS SYSTEM EFFECTS AND KIDNEY AND LIVER DAMAGE. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. WEAR GOGGLES AVOID BREATHING VAPOR OR MIST. KEEP CONTAINER AND RUBBER GLOVES. CLOSED. USE WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. WASH THOROUGRLY AFTER HANDLING.

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 sever systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the 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 Chemie warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. THOR CHEMIE GmbH MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. Handling, storage and use of the product by Buyer or User are beyond the control of Thor Chemie GmbH and Seller. Risks such as ineffectiveness or other unintended consequences resulting from, but not limited to, failure to follow label directions will be assumed by the Buyer or User. IN NO CASE WILL THOR CHEMIE Gmbs 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 FRESHRVATIVE FOR PAINTS, COATINGS AND ADBESTVES

ACTICIDE 45 mildewoide (is recommended for the control of fungi in latex and oil based paints, coatings and adhesives (non-food contact). Add two to five pounds of ACTICIDE 45 per 100 gallons of paint. See the accompanying technical bulletin for more detail on the use of stabilizers, aptimum pB conditions of use and incompatibilities with other ingredients of paints.

THOR

ACCEPTED with COMMENTS in EPA Letter Dated:

50+8 THOR CHEMICALS, INC.

JUL 2 1 1999

Brock House, 37 North Ave., Norwalk, CT 06851 U.S.A. Telex No. 888630 Telephone (203) 846-8613 Fax No. (203) 846-4810

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

67071-6

(7/19/99)

TECHNICAL BULLETIN ACTICIDE 45

GENERAL DESCRIPTION:

ACTICIDE 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 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.

YPICAL PROPERTIES:

ACTICIDE 45 has the following typical properties:

Property <u>Analysis</u> Clear yellow liquid Appearance 92 degrees C Flash point Boiling point 187 degrees C -13 degrees C Freezing point Odor No distingt odor 1.03 g/cm³ (20 degrees C) Specific gravity Solubility Soluble in alcohols, mineral

viscosity spirits. Insoluble in water.
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.

IOCIDAL PROPERTIES:

ACTICIDE 45 is very effective in preventing the growth of fungi known to degrade paint films 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:

Alternario 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 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:

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ACCEPTED with COMMENTS in EPA Lener Dated:

JUL 2 1 1009

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

67071-6

METHOD OF USE:

COMPATIBILITY:

The amount of ACTICIDE 45 needed to protect dry paint films varies with the type formulation and exposure conditions of the film (e.g. indoor vs. tropical climates). Generally two to five pounds of ACTICIDE 45 are used per 100 gallons of paint. Similar application levels are used with oil based paints 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 AC-TICIDE 45, 25 to 50 pounds of zinc oxide can improve performance significantly, especially under stringent conditions such as in a tropical environment. The Thor Microbiological Laboratories will assist in the determination of the optimum quantity required by your prod-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.

ACTICIDE 45 can be incorporated with most paint and coating products at any stage in the manufacturing process. It is preferably added in the let-down stage during manufacture of the paint. Add slowly with good agitation 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.

ACTICIDE 45 is compatible with most raw materials used in microbiologically susceptible products. However, it may be deactivated by ammonia and amines at higher pHs. Contact of ACTICIDE 45 with strong oxidizing or reducing agents should also be avoided. Stabilizers can be used to protect the ACTICIDE 45. Thor'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:

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JUL 2 1 1999

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

67071-6

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.

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.

<u>IF IN EYES:</u> 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 polythene 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.

ACCEPTED with COMMENTS in EPA Letter Dated:

JUL 2 1 1999

(7/19/99)

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

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TOXICOLOGY:

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

Acute Oral LD₅₀ (rat) Acute Dermal LD₅₀ (rat) Acute Inhalation LC₅₀ (4 hr/rat) Primary Skin Irritation (rabbit) Skin Sensitization (Guinea pig)

>2000 mg/kg 0.60 mg/l Severe Delayed contact hypersensitivity

279 mg/kg

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. Locale 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 Chemie, GmbH: ','
Speyer,' Germany | | |

December 1994
Revised 10/29/97(7/19/99)