



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

**EPA Reg. Number:**

67071-85

**Date of Issuance:**

October 29, 2014

**NOTICE OF PESTICIDE:**

Registration  
 Reregistration  
 (under FIFRA, as amended)

**Term of Issuance:**

Conditional

**Name of Pesticide Product:**

Acticide LPN 1

**Name and Address of Registrant (include ZIP Code):**

Thor Specialties Inc.	Thor GmbH
50 Waterview Drive	Landwehrstrasse 1
Shelton, CT 06484	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 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 her/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.
2. Be aware that proposed data requirements have been identified in a Work Plan For more information on these proposed data requirements, you may contact Team Leader for PM Team 36: [http://www.epa.gov/oppad001/contacts\\_ad.htm](http://www.epa.gov/oppad001/contacts_ad.htm)

**Signature of Approving Official:**

Seiichi Murasaki, Acting Product Manager 33

**Date:**

October 29, 2014

3. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. Accelerated storage stability and corrosion characteristics study can be used, at the registrant's discretion, to fulfill these data requirements. You have 18 months from the date of registration to provide these data.
4. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 67071-85."
5. Submit one copy of the final printed label for the record before you release the product for shipment.

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 05/05/2014

If you have any questions, please contact Karen Leavy at (703) 308-6237 or [Leavy.Karen@epa.gov](mailto:Leavy.Karen@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "SEIICHI MURASAKI". The signature is stylized and cursive.

Seiichi Murasaki  
Acting Product Manager 33  
Regulatory Management Branch I  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Enclosure: Stamped Label

ACCEPTED

10/29/2014

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 67071-85



Label# LPN1(c1) 10/28/2014

# ACTICIDE® LPN 1

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

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. 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 treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

### STORAGE AND DISPOSAL

**PROHIBITIONS:** This product (pH 3.5) is corrosive to mild steel. Do not store in unlined 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:** 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.

Active Ingredients:	
2-Bromo-2-nitropropane-1, 3-diol.....	5.20%
5-Chloro-2-methyl-4-isothiazolin-3-one.....	0.85%
2-Methyl-4-isothiazolin-3-one.....	0.28%
Inert Ingredients:.....	93.67%
Total: .....	100.0%

## KEEP OUT OF REACH OF CHILDREN **DANGER**

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 ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- 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 a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

#### 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.

**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. Measures against circulatory shock, respiratory depression and convulsions may be needed.

### For Transportation / Spills Emergency call Chemtrec at 1-800-424-9300

UN 3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
[mixture containing 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one (3:1)], 8, PG-II

CORROSIVE. CAUSES EYE DAMAGE AND SKIN BURNS. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL IF INHALED OR ABSORBED THROUGH THE SKIN. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. WEAR GOGGLES OR FACE SHIELD WHEN HANDLING. WEAR LONG-SLEEVED SHIRT AND LONG PANTS, SOCKS, SHOES, AND CHEMICAL-RESISTANT GLOVES (SUCH AS RUBBER OR MADE OUT OF ANY WATERPROOF MATERIAL). HARMFUL IF SWALLOWED. AVOID BREATHING VAPOR OR SPRAY MIST. AVOID CONTAMINATION OF FOOD. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, CHEWING GUM, USING TOBACCO, OR USING THE TOILET. REMOVE CONTAMINATED CLOTHING, AND WASH CLOTHING BEFORE REUSE.

### 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 \*recirculating water cooling towers, \*air washer systems, \*oil field injection waters, \*paper slime control, \*recirculating closed loop water cooling systems, \*ultra filtration units, such as reverse osmosis systems, \* fuels/oil/storage tank bottom water/crude, \* pulp and paper mills which are classified as indoor non-food and non-food applications. READ AND FOLLOW THE DIRECTIONS FOR USE ON THE ACCOMPANYING INFORMATION SHEET.

\* **Not approved for use in the State of California**

**EPA Reg. No. 67071-XX 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  
U.S. Office: Thor Specialties, Inc.  
50 Waterview Drive, Shelton, CT 06484 USA  
Tel. (203) 516-6980

Batch:	Mfg Date:	Net Contents (pounds):
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# ACTICIDE® LPN 1 INFORMATION SHEET

**THIS ACTICIDE® LPN 1 INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT  
OF ACTICIDE® LPN 1**

## **DIRECTIONS FOR USE**

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

**\*INDUSTRIAL RECIRCULATING WATER COOLING TOWER:** ACTICIDE® LPN 1 microbicide 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. Add 0.3 to 3.3 lb of ACTICIDE® LPN 1 per 1000 gallons of water (40 to 400 ppm ACTICIDE® LPN 1) weekly or as needed for maintenance. For noticeably fouled systems use an initial dose of 1.25 to 7.5 lb ACTICIDE® LPN 1 per 1000 gallons of water. Repeat if necessary to achieve control.

**\* Not approved for use in the State of California**

**\*AIR WASHER SYSTEMS:** For use only in industrial air washing systems that maintain effective mist eliminating components. Add 0.3 to 7.5 lb ACTICIDE® LPN 1 to 1000 gallons of water (35 to 886 ppm ACTICIDE® LPN 1) in the air washer sump, or chill water sump to ensure uniform mixing, for the control of bacteria, fungi and algae. A repeat treatment may be needed depending on the severity of contamination.

**\* Not approved for use in the State of California**

**\*OIL FIELD INJECTION WATERS:** Add 23 to 58 lb (2.8 to 6.9 gallons) ACTICIDE® LPN 1 per 1000 barrels of water (66 to 165 ppm ACTICIDE® LPN 1) weekly or as needed 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 57 to 115 lb ACTICIDE® LPN 1 per 1000 barrels of water (162 to 324 ppm ACTICIDE® LPN 1) may be used until control is achieved. This product may be used for terrestrial and off-shore oil drilling muds and packer fluids.

**\* Not approved for use in the State of California**

**\*PAPER MILLS:** Add 0.45 to 7.5 lb of ACTICIDE® LPN 1 per ton (dry basis) of pulp or paper produced as slug dose for the control of bacterial and fungal slime in the production of paper. ACTICIDE® LPN 1 should be added to a point such as the Beater or Hydropulper to ensure uniform mixing.

**\* Not approved for use in the State of California**

**\*INDUSTRIAL RECIRCULATING CLOSED LOOP WATER COOLING SYSTEMS:** Add 0.3 to 3.3 lb of ACTICIDE® LPN 1 per 1000 gallons of water in the system weekly to maintain control of bacteria, fungi and algae in the reservoir, recirculating line or some other point to ensure uniform mixing. For noticeably fouled systems an initial treatment with 1.25 to 7.5 lb ACTICIDE® LPN 1 per 1000 gallons of water may be needed depending on the severity of the fouling.

**\* Not approved for use in the State of California**



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OF ACTICIDE® LPN 1**

## **DIRECTIONS FOR USE**

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

**\*ULTRA FILTRATION UNITS, such as REVERSE OSMOSIS SYSTEMS:** ACTICIDE® LPN 1 microbiocide is recommended for the control of bacteria and fungi in ultra filtration units, such as reverse osmosis systems. Add 10 - 600 ppm of ACTICIDE® LPN 1 microbiocide into industrial ultra filtration or reverse osmosis systems by either continuous feed or periodic injection. Compatibility of ACTICIDE® LPN 1 microbiocide with reverse osmosis membranes should be confirmed with membrane manufacturers. For the control of bacteria and fungi in carbon beds, add 10 - 600 ppm of ACTICIDE® LPN 1 microbiocide. For periodic membrane cleaning, add 0.3 - 1.75 lbs of ACTICIDE® LPN 1 microbiocide to every 120 gallons of cleaning solution (6 - 15 ppm active ingredient). Badly fouled systems should be cleaned before treatment is begun.

**\* Not approved for use in the State of California**

**\* FUELS/OIL/STORAGE TANK BOTTOM WATER/CRUDE:** ACTICIDE® LPN 1 is recommended for the control of bacteria and fungi in the following liquid hydrocarbon fuels and oils: crude oils, kerosene, heating oils, residual fuel oils, coal slurries, liquefied petroleum gases, petrochemical feedstocks and diesel fuels. ACTICIDE® LPN 1 is recommended for commercial and industrial use only. ACTICIDE® LPN 1 should be directly dispensed into a fuel tank, storage tank, or 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. When the system is noticeably fouled, add 2.0 lbs of ACTICIDE® LPN 1 per 1000 gallons of fluid in the system (0.01% wt/wt). This will provide 3.3 ppm of isothiazolones and 16 ppm of bronopol. Repeat until control is achieved. A shock dose of up to 11 lbs of ACTICIDE® LPN 1 per 1000 gallons (14.4 ppm of isothiazolones and 66 ppm of bronopol) of fluid (0.12% wt/wt) is recommended in the case of extreme contamination. Grossly contaminated systems should be physically cleaned to remove debris. When the system is not noticeably fouled, add 1.0 lbs of ACTICIDE® LPN 1 per 1000 gallons of fluid to maintain the system (0.02% wt/wt). This will provide 2.88 ppm of isothiazolones and 13.2 ppm of bronopol. Repeat every 4-6 weeks or when microbial contamination is detected.

**\* Not approved for use in the State of California**

**\* PULP and PAPER MILLS:** For the control of bacterial and fungal slime in the pulp and Paper mills. Add 0.45 to 7.5 lb of ACTICIDE® LPN 1 per ton (dry basis) of pulp or paper produced as slug dose for the control of bacterial and fungal slime in the production of paper. ACTICIDE® LPN 1 should be added to a point such as the Beater or Hydropulper to ensure uniform mixing in the stock or white water.

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

ACTICIDE® LPN 1 microbiocide weighs 8.7 lb. per gallon.