

67071-46

7/10/2013

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



United States
Environmental Protection
Agency

Office of Pesticide Programs

JUL 10 2013

Thor GmbH
Landwehrstrasse 1
D-67346,
Speyer, Germany

AGENT: Acti-Chem Specialties, Inc.
50 Waterview Drive
Shelton, CT 06484 USA

Attention: Lynn P. Tordo, MS.
Regulatory Manager

Subject: ACTICIDE® MBL
EPA Registration No. 67071-46
Notification Dated March 4, 2013
EPA Received Date March 26, 2013

This will acknowledge receipt of your notification, submitted under the provisions of FIFRA Section 3(c)(9).

Proposed Notification

- Updated Source of an Active Ingredient

General Comments

Based on a review of the submitted material, the following comments apply:

The Alternate Confidential Statement of Formula dated March 4, 2013 is in compliance with PR Notice 98-10 and is acceptable. This information has been added to your file.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6341.

Sincerely,

Marshall Swindell
Product Manager (33)
Regulatory Management Branch 1
Antimicrobials Division (7510P)



United States
Environmental Protection Agency
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 67071-46	2. EPA Product Manager Marshall Swindell	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Thor GmbH / ACTICIDE MBL	PM# 33	
5. Name and Address of Applicant (Include ZIP Code) Thor GmbH, Landwehrstrasse 1, D-67346, Speyer, Germany U.S. Agent: Thor Specialties, Inc. 50 Waterview Drive, Shelton, CT 06484 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. <u>67071-46</u> Product Name <u>ACTICIDE MBL</u>	

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.	<input type="checkbox"/> Other - Explain below.

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

Notification of label change to include Thor approved establishment address on label. This notification is consistent with the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for 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 the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, 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 checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container 5, 55, and 265 gallons		5. Location of Label Directions <input checked="" type="checkbox"/> On labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph 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 Lynn P. Tordo	Title Regulatory Manager	Telephone No. (Include Area Code) 203-516-6980
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 	3. Title Regulatory Manager	
4. Typed Name Lynn P. Tordo, M.S.	5. Date June 10, 2013	

ACTICIDE® MBL



ENVIRONMENTAL HAZARDS

This chemical is toxic to terrestrial and aquatic plants, fish and aquatic invertebrates. 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 local 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.

PHYSICAL AND CHEMICAL HAZARD:

This product is corrosive to mild steel. Materials to be avoided: reducing agents, oxidizing agents, and nucleophils.

STORAGE AND DISPOSAL

Prohibitions: This product is corrosive to mild steel. Do not store 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 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 1/2 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 1/4 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, reuse, sale 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.

Active Ingredients:

- 2-Bromo-2-nitro-1,3-propanediol..... 8.00%
- 1,2-Benzisothiazolin-3-one..... 2.50%
- 2-Methyl-4-isothiazolin-3-one..... 2.50%
- Inert Ingredients:..... 87.00%
- Total..... 100.00%

ACTICIDE® MBL microbicide weighs 8.9 lb. per gallon.

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.
- > 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.
- 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 by a poison control center or doctor.

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.

EPA Reg. No. 67071-46 EPA Est. No. 67071-DEU-001
Manufactured By/For: Thor GmbH

D-67346 Speyer, Germany

Tel. (06232) 6360

Thor Specialties, Inc.

50 Waterview Drive, Shelton, CT 06484 USA

Tel. (203) 516-6980

EPA Est. No. 67071-MEX-001

Thor Quimicos de México SA de CV.

Autopista Mex-Qro Km 182, Pedro Escobedo,

Querétaro, México. Tel. (448)2752200

Thor GmbH

U.S. Office: Thor Specialties, Inc.

50 Waterview Drive, Shelton, CT 06484 USA

Tel. (203) 516-6980

Precautionary Statements:

Hazards to Humans and Domestic Animals
CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE AND SKIN BURNS. HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. Wear goggles, face shield or safety glasses. Wear coveralls worn over long-sleeved shirt and long pants, socks, chemical resistant footwear and chemical resistant gloves made of barrier laminate, butyl or nitrile rubber or viton. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

User Safety Requirements: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Do not apply this product in a way that will contact workers or other persons.

User Safety Recommendations: User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. User should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

DIRECTIONS FOR USE

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

Industrial microbicide for use as a materials preservative for aqueous products, *animal hides and *leather, *industrial water systems.

READ AND FOLLOW THE DIRECTIONS FOR USE ON THE ACCOMPANYING INFORMATION SHEET.

*Not approved for these uses in the state of California

UN 3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2-Methyl-4-isothiazolin-3-one), 8, PG-III one, 1,2-Benzisothiazolin-3-one), 8, PG-III

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.

Batch:

Mfg Date:

Net Contents (pounds):



ACTICIDE® MBL INFORMATION SHEET THIS ACTICIDE® MBL INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT OF ACTICIDE® MBL

DIRECTIONS FOR USE

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

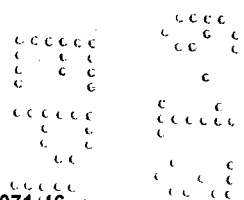
DIRECTIONS FOR USE

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

PRESERVATIVE FOR LATICES: ACTICIDE® MBL microbiocide is recommended for the control of microorganisms in the manufacture and storage of synthetic and natural polymer latices including: acrylics, styrene-butadiene, carboxylated styrene-butadiene, ethylene-vinyl acetate and biopolymers intended for industrial use such as xanthan gum, gum arabic, guar gum, protein derived polymers, starches and casein derived polymers including latices for paper and paperboard. Add 0.05% - 0.5% ACTICIDE® MBL based on the weight of emulsion (0.05 to 0.5 lbs ACTICIDE® MBL per 100 lbs emulsion).

PRESERVATIVE FOR PAINTS AND COATINGS: ACTICIDE® MBL microbiocide is recommended as an in-container preservative for the control of microorganisms in water based coatings such as paper and wood coatings and paints used for architectural product finishes and special purpose coatings. Add 0.05% - 0.5% ACTICIDE® MBL (by weight) to the paint, or coating formulation (0.05 - 0.5 lbs ACTICIDE® MBL per 100 lbs of formulated product). *Special purpose coating uses: Include use as a: <> *preservative for electrodeposition paints or solutions, <> preservative for photoplating solutions or coatings, <> preservative in fount (or fountain) solutions used in the printing process as a maintenance fluid/coating and as a special coating for printing plates, and <> preservative in spin finish coatings for fibers. The application/addition directions for these special purpose coating uses are:

***ELECTRODEPOSITION:** ACTICIDE® MBL microbiocide is recommended as a tankside additive for the control of microorganisms in re-circulating electrodeposition systems and associated rinse systems. Alternately, ACTICIDE® MBL microbiocide may be added through the components of the electrodeposition paint prior to their addition to the electrodeposition system. **Tankside Addition To Electrodeposition Systems:** ACTICIDE® MBL 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 up to 1.0% (w/v) ACTICIDE® MBL microbiocide based on the total gallons of fluid in the system (1.0 lbs per 100 gallons). Repeat until control is achieved. When microbial control is evident, add up to 1.0% (w/v) ACTICIDE® MBL based on the total gallons of fluid in the system (1.0 lbs ACTICIDE® MBL per 100 gallons) 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





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***TREATMENT OF ELECTRODEPOSITION PAINT COMPONENTS:** Initial Dose of Paint Components: ACTICIDE® MBL microbiocide should be added to the resin, pigment, or other component of the electrodeposition paint at a level to ensure that the final use-dilution fluid will contain no more than 500 ppm isothiazolones. **Supplemental Tanked Dosing of Electrodeposition System:** If additional microbial control is necessary, ACTICIDE® MBL microbiocide may be added to the electrodeposition system tankside to supplement the microbiocide incorporated through paint components. If the system becomes noticeably fouled, add up to 1.0% (w/v) ACTICIDE® MBL microbiocide based on the total gallons of fluid in the system (1.0 lbs ACTICIDE® MBL per 100 gallons). Repeat until control is achieved. When microbial control is evident, the system can be maintained by addition of up to 1.0% (w/v) ACTICIDE® MBL microbiocide based on the total gallons of fluid in the system (1.0 lbs ACTICIDE® MBL per 100 gallons) weekly or as needed. * *Not approved for this use in the state of California*

***PHOTOPLATE PROCESSING, PHOTO PROCESSING, FOUNTAIN SOLUTIONS, AND INK/INK COMPONENTS:** ACTICIDE® MBL microbiocide is recommended for the control of microorganisms in photoplate processing such as stabilizer solutions and in fountain solutions. ACTICIDE® MBL microbiocide is recommended for water-based printing inks such as flexographic, gravure, screen and ink jet types. ACTICIDE® MBL microbiocide is recommended for the control of microorganisms in printing ink components such as resins, plasticizers, water soluble dyes, pigments, gelling agents, waxes, surfactants, and thickeners. ACTICIDE® MBL microbiocide should be added to achieve the recommended dosage range for ink, ink components, fountain solutions and photoplate processing chemicals of 0.05% to 1.0% on a total weight basis (0.05 to 1.0 lbs ACTICIDE® MBL per 100 lbs product). The optimum level range for acidic fountain solutions is 0.05% to 0.5%; the optimum level range for neutral fountain solutions is 0.05% to 0.8% (0.05 to 0.8 lbs ACTICIDE® MBL per 100 lbs solution). A level adjustment may be necessary to accommodate the slight change in solution formulations. Up to 50% ACTICIDE® MBL based on the weight of concentrate may be added to concentrates so long as the final use-dilution product contains not more than 500 ppm active isothiazolones (a dilution of 100x). NOTE: To insure uniform mixing, add ACTICIDE® MBL microbiocide to latex or solution 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*

PRESERVATIVE FOR BUILDING MATERIALS: ACTICIDE® MBL microbiocide is recommended as an in-container preservative for the control of microorganisms in building materials such as mastics, caulks, joint cements, spackles and grouts, and concrete admixtures. Add 0.05% - 0.5% ACTICIDE® MBL (0.05 to 0.5 lbs ACTICIDE® MBL per 100 lbs formulated product) to the fluid.



ACTICIDE[®] MBL INFORMATION SHEET THIS ACTICIDE[®] MBL INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT OF ACTICIDE[®] MBL

DIRECTIONS FOR USE

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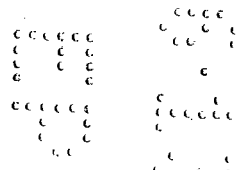
PRESERVATIVE FOR ADHESIVES AND TACKIFIERS: ACTICIDE[®] MBL microbiocide is recommended as a preservative for the control of microorganisms in water soluble and water dispersed adhesives such as animal glues, vegetable glues, natural rubber latices, polyvinyl acetate, styrene-butadiene and acrylic latices. ACTICIDE[®] MBL microbiocide is recommended as a preservative for tackifiers derived from rosin and hydrocarbon resins. Add 0.05% - 0.5% of ACTICIDE[®] MBL (0.05 to 0.5 lbs ACTICIDE[®] MBL per 100 lbs formulated product) to the fluid.

PRESERVATIVE FOR DISPERSED PIGMENTS (MINERAL SLURRIES): ACTICIDE[®] MBL microbiocide is recommended for the control of microorganisms in the manufacture and storage of dispersed pigments such as *refractory coatings, ceramic glazes, kaolin clay, montmorillonite clay, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate and kieselguhr used in paint and paper products. Add 0.05% - 0.5% of ACTICIDE[®] MBL (0.05 to 0.5 lbs ACTICIDE[®] MBL per 100 lbs formulated product) to the dispersion. * Not approved for this use in the state of California

***REFRACTORY COATINGS:** ACTICIDE[®] MBL microbiocide should be added to the refractory coating concentrate at a level of 0.5% to 1.0% on a total weight basis (0.5 to 1.0 lbs ACTICIDE[®] MBL per 100 lbs concentrate). 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

***WET STATE PRESERVATIVE:** ACTICIDE[®] MBL is recommended as an in-container preservative for the control of microorganisms in aqueous products such as aqueous emulsions and dispersions including stabilized oil/water emulsions, surface preparation compounds, foam control products, nutrient solutions and aqueous pesticides [includes use as an in-container preservative for the control of microorganisms in pesticide products for dilution (with a MIT level of not more than 9 ppm in the final solution) applied to crops and for use in pesticide formulations for use on food contact surfaces at rates described for in-container preservative category]. Add 0.05% - 1.0% ACTICIDE[®] MBL (0.05 to 1.0 lbs ACTICIDE[®] MBL per 100 lbs formulation) to the product.

* Not approved for this use in the state of California



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***HOUSEHOLD, CONSUMER, INDUSTRIAL, INSTITUTIONAL, JANITORIAL PRODUCTS:** For the control of microorganisms 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/refreshers products, liquid and solid air fresheners/deodorizers, car care products, and other similar cleaners. ACTICIDE® MBL is recommended for the control of microorganisms in solutions that are then put into/onto wet wipes for use in industrial, commercial, residential and household uses cited above. Wet wipes containing a solution preserved with this product may not be used as baby wipes, or for food contact. May also be used for the control of microorganisms in package utility products including pre-moistened sponges and mops in uses cited above. ACTICIDE® MBL is added at a level of 0.05% - 0.4% to the product to be protected (0.05 to 0.4 lbs ACTICIDE® MBL per 100 lbs product). ACTICIDE® MBL 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 0.05% to 0.40% ACTICIDE® MBL microbicide. ** Not approved for this use in the state of California*

***PRESERVATIVE FOR OIL-IN-WATER EMULSIONS:** ACTICIDE® MBL is recommended for use in spin-finish solutions used in the textile industry and photographic emulsions. Add 0.05% - 0.5% ACTICIDE® MBL to the emulsion (0.05 to 0.5 lbs ACTICIDE® MBL per 100 lbs emulsion). ** Not approved for this use in the state of California*

***PRESERVATIVE FOR METAL WORKING FLUIDS:** ACTICIDE® MBL microbicide is recommended for the control of microorganisms in aqueous metal working fluid solutions and emulsions. Add 0.2 % ACTICIDE® MBL to the fluid (0.2 lbs ACTICIDE® MBL per 100 lbs of fluid) every 4 weeks for maintenance of the non-fouled system. For a noticeably fouled system use an initial dose of 0.5%-1.0% ACTICIDE® MBL (0.5 to 1.0 lbs ACTICIDE® MBL per 100 lbs of fluid) followed by subsequent maintenance dosage above. A higher dosage rate and/or increased frequency of treatment may be required depending upon the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc. The preservative should be dispensed into the use dilution of the metal working fluid using a metering pump and uniformly dispersed throughout the system. ** Not approved for this use in the state of California*

***PRESERVATIVE FOR TEXTILES/CORDAGE PRODUCTS AND TEXTILE-/TEXTILE-FIBERS MAKING:** ACTICIDE® MBL is recommended as a preservative for the control of microorganisms in textiles and non-woven products (such as canvas, carpet, cordage, drapes, and shower curtains), in chemicals commonly used in the production of natural and synthetic fibers and fabrics (such as fiber lubricants, spin finishes, sizes, dyestuffs, textile printing inks, dispersants, thickeners, dye fixatives, hand builders and weighters), and in textile coatings. Add 0.05% - 0.5% ACTICIDE® MBL to the fluid (0.05 to 0.5 lbs ACTICIDE® MBL per 100 lbs fluid). ** Not approved for this use in the state of California*

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***LEATHER PROCESSING SOLUTIONS, PRESERVATION OF FRESH ANIMAL HIDES AND SKINS:** To preserve the integrity of fresh animal hides and skins prior to or during processing, use 1.0 – 2.4 lb of ACTICIDE® MBL per 1000 pounds of hides or skins. Add the appropriate quantity of ACTICIDE® MBL to the brine solution during the curing operation, or treat hides or skins with an appropriately diluted aqueous solution during other portions of the processing operation. The specific use rate and contact time needed to control microbial attack will depend upon the degree of decomposition of the hides or skins prior to treatment. ** Not approved for this use in the state of California*

INDUSTRIAL WASTE-WATER AND WASH-WATER SYSTEMS: ACTICIDE® MBL microbiocide is recommended for the control of microorganisms. It should be added to the tower basin or some other point to ensure uniform mixing. Add 0.02 – 0.04 lbs ACTICIDE® MBL per 100 gallons weekly or as needed for maintenance. For noticeably fouled systems use an initial dose up to 0.12 lbs ACTICIDE® MBL per 100 gallons. Repeat if necessary to achieve control. 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 local sewage treatment plant authority.

***AIR WASHER SYSTEMS AND PAINT SPRAY BOOTHS:** for use only in industrial air washing systems and paint spray booths that maintain effective mist eliminating components. Add 0.01 – 0.12 lbs ACTICIDE® MBL per 100 gallons in the air washer sump, or chill water sump to ensure uniform mixing, for the control of microorganisms. A repeat treatment may be needed depending on the severity of contamination. ** Not approved for this use in the state of California*

***OIL FIELD INJECTION WATERS:** add 0.01 – 0.02 lbs ACTICIDE® MBL per 100 gallons to the water weekly or as needed to maintain control of slime-forming and sulfate reducing microorganisms in oil and gas field water systems including enhanced recovery injection fluids and drilling fluids. An initial dose of 0.03 – 0.04 lbs ACTICIDE® MBL per 100 gallons 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 this use in the state of California*

***PAPER MILLS:** add 0.03 – 0.4% of ACTICIDE® MBL [0.03 – 0.4 lbs ACTICIDE® MBL per 100 lbs pulp or paper (dry basis)] produced as slug dose for the control of microorganisms in the production of paper. ACTICIDE® MBL should be added at a point such as the beater or hydropulper to ensure uniform mixing. ** Not approved for this use in the state of California*

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***INDUSTRIAL RECIRCULATING WATER COOLING TOWERS AND CLOSED LOOP COOLING SYSTEMS:** add 0.01 – 0.04 lbs ACTICIDE® MBL per 100 gallons in the system weekly to maintain control of microorganisms in the reservoir, recirculating line or some other point to ensure uniform mixing. For noticeably fouled systems an initial treatment with 0.02 – 0.12 lbs ACTICIDE® MBL per 100 gallons may be needed depending on the severity of the fouling. Do not apply by open pouring of liquid to cooling water systems, a metering pump delivery system is required for this use and application method.

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

***ULTRA FILTRATION UNITS, SUCH AS REVERSE OSMOSIS SYSTEMS:** ACTICIDE® MBL microbiocide is recommended for the control of microorganisms in ultra filtration units, such as reverse osmosis systems. Add 0.01 – 0.1 lbs ACTICIDE® MBL per 100 gallons into industrial ultra filtration or reverse osmosis systems by either continuous feed or periodic injection. Compatibility of ACTICIDE® MBL microbiocide with reverse osmosis membranes should be confirmed with membrane manufacturers. For the control of microorganisms in carbon beds, add 0.01 – 0.1 lbs ACTICIDE® MBL per 100 gallons. For periodic membrane cleaning, add 0.05 – 0.2% ACTICIDE® MBL to cleaning solution. Badly fouled systems should be cleaned before treatment is begun.

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

