



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Antimicrobials Division (7510C)
1200 Pennsylvania Avenue NW
Washington, D.C. 20460

EPA Reg.

Number:

67071-46

Date of

Issuance

MAR 15 2011

Term of Issuance:

Conditional

Name of Pesticide

Product:

ACTICIDE MBL

NOTICE OF PESTICIDE:

Registration

Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Thor 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 others.

Based on your response to the 1,2-Benzisothiazolin-3-one RED, the EPA has reregistered this product subject to the comments recorded in the succeeding paragraph. This action is taken under the authority of section 4(g) (2) of the Federal Insecticide, Fungicide and Rodenticide Acts, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. The EPA may require submission of data at any time to maintain the registration of the subject product.

1. Make the following label changes:

a. The EPA Registration Number to read "67071-46".

Signature of Approving Official:

Marshall Swindell
Product Manager Team-33
Regulatory Management Branch I
Antimicrobials Division (7510P)

Date:

MAR 15 2011

b. The following revisions are needed to the First Aid statements:

- Revise the heading "IF ON SKIN" to read "IF ON SKIN OR CLOTHING".
- Based on toxicity ranking per the acute toxicity review, the First Aid statements on the Technical Information Bulletin must be placed on the label in the following ORDER:

"IF IN EYES: ...
 IF ON SKIN OR CLOTHING: ...
 IF SWALLOWED: ...
 IF INHALED: ..."

c. The Agency recommends that additional text be added to the Note to Physician that addresses eye and skin irritation concerns.

d. The following revisions are needed to the Hazards Humans and Domestic Animals statements:

- Revise the glove statement to read "chemical-resistant gloves made of barrier laminate, butyl or nitrile rubber or viton."
- The text "Wash thoroughly with soap and water after handling, before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse" must be deleted because it will be replaced with the User Safety Requirements and User Safety Recommendations text specified below:

e. Per the Bronopol and Methylisothiazolinone REDs, the following User "Safety Requirements text must be added to the label:

"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."

f. Per the acute toxicity review, the following User Safety Recommendations must be added to the label:

"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."

g. Per the product chemistry review, physical or chemical hazards text must be added to the label:

h. Per the product chemistry review, the storage and disposal section must be revised to comply with PR Notice 2007-4.

i. Per the Methylisothiazolinone RED, the first sentence of the Environmental Hazards statements must be revised to read: "This chemical is toxic to terrestrial and aquatic plants, fish and aquatic invertebrates."

j. Per the Methylisothiazolinone RED, add the following text:

"Do not apply this product in a way that will contact workers or other persons."

K. Per the Bronopol RED, add the following text to the label:

For Cooling water systems: "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."

2. For additional labeling clarity and consistency, please refer to the enclosed EPA reviews.

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.

Submit two (2) copies of the revised labeling bearing the labeling revisions listed above. A stamped copy of the label is enclosed for your records.

If you have questions concerning this matter, please contact me at (703) 308-6341 or by email at swindell.marshall@epa.gov or Martha L. Terry at (703) 308-6217 or by email at terry.martha@epa.gov.

Sincerely,



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

Enclosures

ACTICIDE® MBL



Precautionary Statements: Hazards to Humans and Domestic Animals

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: 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 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.

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.

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

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

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 microbiocide 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 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.
- *Do not give anything by mouth to an unconscious person.

IF ON SKIN:

- *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 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.

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. Wash thoroughly with soap and water after handling, before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

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 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.

EPA Reg. No. 67071-46

EPA Est. No. 67071-DEU-001

Manufactured By: Thor GmbH
D-67346 Speyer, Germany
Tel. (06232) 6360
U.S. Office: Thor Specialties, Inc.
56 Quarry Road; Trumbull, CT 06611
Tel. (203) 365-6530

ACCEPTED
with COMMENTS
EPA Letter Dated:

MAR 15 2011

Under the Federal Insecticide,
Fungicide and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 67071-46

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ACCEPTED
with COMMENTS
EPA Letter Dated:
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Label # 460(a4) 05/06/08
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Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
approved for the pesticide,
registered under EPA Reg. No.

67071-46

ACTICIDE[®] MBL

THOR

Batch:

Mfg Date:

Net Contents (pounds):

Not approved for use as a Preservative for Latices, Paints and Coatings, Special Purpose Paints and Coatings, Building Materials, Adhesives and Tackifiers Dispersed Pigments, Oil-in-Water Emulsions, as a Wet State Preservative, as a Preservative in Household, Consumer, Industrial, Institutional, Janitorial Products, Textiles/Cordage Products and Textile/Textile-Fibers Making, Leather Processing Solutions, Fresh Animal Hides and Skins, Industrial Waste-Water and Wash-Water Systems, Air Washer Systems and Paint Spray Booths, Oil Field Injection Waters, Paper Mills, Industrial Water Cooling Systems, Ultra Filtration Units in the State of California
(Note: this statement will be removed/modified when approvals are granted)

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 photoplatting solutions or coatings, <> preservative in fountain (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 2.4% (w/v) ACTICIDE[®] MBL microbiocide based on the total gallons of fluid in the system (2.4 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.

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 250 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 2.4% (w/v) ACTICIDE[®] MBL microbiocide based on the total gallons of fluid in the system (2.4 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.

PHOTOPATE 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, wax es, 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 250 ppm active isothiazolones (a dilution of 100x). NOTE: To insure uniform mixing, add ACTICIDE[®] MBL microbiocide to latex or solutions 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.

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ACTICIDE[®] MBL



DIRECTIONS FOR USE (CONTINUED)

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

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.

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.

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).

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% - 0.5% ACTICIDE[®] MBL (0.05 to 0.5 lbs ACTICIDE[®] MBL per 100 lbs formulation) to the product.

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 0.01% - 0.3% to the product to be protected (0.01 to 0.3 lbs ACTICIDE[®] MBL per 100 lbs product).

PRESERVATIVE FOR METAL WORKING FLUIDS: ACTICIDE[®] MBL microbiocide 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 preservation should be dispensed into the use dilution of the metal working fluid using a metering pump and uniformly dispersed throughout the system.

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).

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 - 24 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.

ACCEPTED
with COMMENTS
EPA Letter Dated:
MAR 15 2011

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 67071-46

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ACTICIDE[®] MBL



DIRECTIONS FOR USE (CONTINUED)

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

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 0.01 – 0.04% of ACTICIDE[®] MBL (0.01 – 0.04 lbs ACTICIDE[®] MBL per 100 gallons) weekly or as needed for maintenance. For noticeably fouled systems use an initial dose of 0.02 – 0.12% ACTICIDE[®] MBL (0.02 – 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% ACTICIDE[®] MBL (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.

OIL FIELD INJECTION WATERS: add 0.01 – 0.02% ACTICIDE[®] MBL (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% ACTICIDE[®] MBL (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.

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)] of pulp or paper produced as slug dose for the control of microorganisms and fungal slime in the production of paper. ACTICIDE[®] MBL should be added at a point such as the beater or hydropulper to ensure uniform mixing.

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS AND CLOSED LOOP COOLING SYSTEMS: add 0.01 – 0.04% of ACTICIDE[®] MBL (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% ACTICIDE[®] MBL (0.02 – 0.12 lbs ACTICIDE[®] MBL per 100 gallons) may be needed depending on the severity of the fouling.

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 0.002 – 0.1% ACTICIDE[®] MBL (0.002 – 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 0.002 – 0.1% ACTICIDE[®] MBL (0.002 – 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.

ACCEPTED
with COMMENTS
EPA Letter Dated:

MAR 15 2011

for the Federal Insecticide,
Fungicide, and Rodenticide Act as
required, for the pesticide,
registered under EPA Reg. No. 67071-46

7/7