

THOR

ACTICIDE® MBS

Industrial microbiocide for use in polymer latices, paints and coatings, building materials, adhesives and tackifiers, mineral slurries, additives for paper and paperboard, oil-in-water emulsions, as an in container preservative for aqueous products, for use in household cleaning products, laundry additives, car care products, metal working fluids, and textiles/cordage products and textile/textile fibers-making.

ACTIVE INGREDIENTS:

2-Methyl-4-isothiazolin-3-one 2.5%
1,2-Benzisothiazolin-3-one 2.5%

INERT INGREDIENTS: 95.0%

TOTAL: 100.0%

Acticide MBS microbiocide weighs 8.6 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.

EPA Reg. No. 67071-29

Manufactured By:
Thor GmbH
D-67346 Speyer, Germany
Tel. (06232) 6360

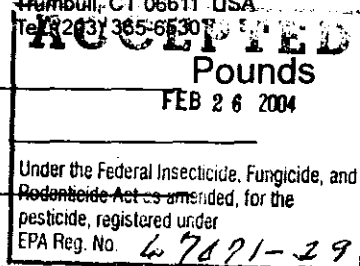
EPA Est. No. 67071-DEU-1

U.S. Office:
Acti-Chem Specialties, Inc.
56 Quarry Road
Trumbull, CT 06611 USA
Tel. (203) 365-6530

Net Contents: _____

Date of Manufacture: _____

Lot #: _____



PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

KEEP OUT OF REACH OF CHILDREN.

CORROSIVE. CAUSES EYE DAMAGE AND SKIN BURNS. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF INHALED. MAY BE FATAL IF SWALLOWED OR ABSORBED THROUGH THE SKIN. Do not get in eyes, on skin, on clothing. Wear goggles or face shield and rubber gloves when handling. Avoid breathing vapor or spray mist. Avoid contamination of food. Do not take internally. Wash thoroughly 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 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.

STORAGE AND DISPOSAL

PROHIBITIONS: This product 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 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.

U.S. PATENT NO. 6,361,788 B1

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.

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Label # 290(f) 12/02/03

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02/26/2004

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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 MBS microbiocide is recommended for the control of bacteria and fungi 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 1.0 - 5.0 lbs. Acticide MBS (0.45 - 2.27 kg) to 1000 lbs. (454 kg) of emulsion to provide 50 - 250 ppm active ingredient.

PRESERVATIVE FOR PAINTS AND COATINGS: Acticide MBS microbiocide is recommended as an in-container preservative for the control of bacteria and fungi in water based coatings such as paper and wood coatings and paints used for architectural product finishes and special purpose coatings. Add 1.0 - 5.0 lbs. Acticide MBS (0.45 - 2.26 kg) per 1000 lbs. of paint, or coating fluid formulation or polymer latex to provide 50 - 250 ppm of active ingredient.

Special purpose coating uses: Include use as a: <> preservative for electrodeposition paints or solutions, <> preservative for photoplate 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 MBS microbiocide is recommended as a tankside additive for the control of bacteria, fungi, and algae in re-circulating electrodeposition systems and associated rinse systems. Alternately, Acticide MBS 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 MBS 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% Acticide MBS microbiocide (based on the total gallons of fluid in the system). Repeat until control is achieved.

When microbial control is evident, add up to 1.0% Acticide MBS (based on the total gallons of fluid in the system) 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 MBS 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.

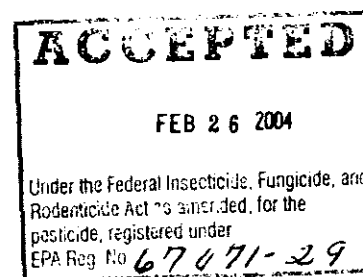
Supplemental Tanked Dosing of Electrodeposition System: If additional microbial control is necessary, Acticide MBS microbiocide may be added to the electrodeposition system tankside to supplement the microbiocide incorporated through paint components. If the system becomes noticeably fouled, add up to 2.4% Acticide MBS microbiocide (based on the total gallons of fluid in the system). Repeat until control is achieved.

When microbial control is evident, the system can be maintained by addition of up to 1.0% Acticide MBS microbiocide (based on the total gallons of fluid in the system) weekly or as needed.

PHOTOPATE PROCESSING, PHOTO PROCESSING, FOUNTAIN SOLUTIONS, AND INK/INK COMPONENTS:

Acticide MBS microbiocide is recommended for the control of bacteria and fungi in photoplate processing such as stabilizer solutions and in fountain solutions. Acticide MBS microbiocide is recommended for water-based printing inks such as flexographic, gravure, screen and ink jet types. Acticide MBS microbiocide is recommended for the control of bacteria and fungi in printing ink components such as resins, plasticizers, water soluble dyes, pigments, gelling agents, waxes, surfactants, and thickeners. Acticide MBS microbiocide should be added to achieve the recommended dosage range for ink, ink components, fountain solutions and photoplate processing chemicals of 0.1% to 1.0% on a total weight basis. The optimum level range for acidic fountain solutions is 0.2% to 0.5%; the optimum level range for neutral fountain solutions is 0.5% to 0.8%. A level adjustment may be necessary to accommodate the slight change in solution formulations. Up to 500 lb Acticide MBS per 1,000 lbs of concentrate may be added to concentrates so long as the final use-dilution product contains not more than 250 ppm active ingredients (a dilution of 100x).

NOTE: To insure uniform mixing, add Acticide MBS 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.



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 MBS microbiocide is recommended as an in-container preservative for the control of bacteria and fungi in building materials such as mastics, caulks, joint cements, spackles and grouts, and concrete admixtures. Add 1.0 - 4.0 lbs. Acticide MBS (0.45 - 1.81 kg) per 1000 lbs of fluid to provide 50 - 200 ppm active ingredient.

PRESERVATIVE FOR ADHESIVES AND TACKIFIERS: Acticide MBS microbiocide is recommended as a preservative for the control of bacteria and fungi in water soluble and water dispersed adhesives such as animal glues, vegetable glues, natural rubber latices, polyvinyl acetate, styrene-butadiene and acrylic latices. Acticide MBS microbiocide is recommended as a preservative for tackifiers derived from rosin and hydrocarbon resins. Add 1.0 - 5.0 lbs. (0.45 - 2.27 kg) of Acticide MBS to 1000 lbs. of fluid to provide 50 - 250 ppm active ingredient.

PRESERVATIVE FOR DISPERSED PIGMENTS (Mineral slurries): Acticide MBS microbiocide is recommended for the control of bacteria and fungi 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 0.3 - 3.0 lbs (0.14 - 1.4kg) of Acticide MBS per 1000 lbs of dispersion to provide 15 - 150 ppm active ingredient.

PRESERVATIVE FOR OIL-IN-WATER EMULSIONS: Acticide MBS is recommended for use in spin-finish solutions used in the textile industry and photographic emulsions. Add 1.0 - 5.0 lbs (0.45 - 2.27 kg) Acticide MBS to 1000 lbs of emulsion to provide 50 - 250 ppm active ingredient.

IN-CONTAINER PRESERVATIVE: Acticide MBS is recommended as an in-container preservative for the control of bacteria and fungi 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 bacteria and fungi in pesticide products for dilution (with a MIT level of not more than 2.25 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 0.5 - 5.0 lbs. (0.23 - 2.27 kg) Acticide MBS per each 1000 lbs. of treated product to provide 25 - 250 ppm active ingredients.

HOUSEHOLD CLEANING PRODUCTS, LAUNDRY ADDITIVES, CAR CARE PRODUCTS: For the control of bacteria and fungi in liquid detergents, liquid laundry products, dishwashing detergents, waxes, polishes and other similar cleaners. Acticide MBS may also be used for the control of bacteria and fungi in package utility products such as pre-moistened sponges and mops. Acticide MBS may also be used for the control of bacteria and fungi in solutions that are then put into/onto wet wipes. Wet wipes containing a solution preserved with this product may not be used for personal care, as baby wipes, or for food contact. Acticide MBS is added at a level of 0.12 to 3.0 lb to each 1000 lb of product to be protected to provide 6 to 150 ppm of active isothiazolones.

PRESERVATIVE FOR METAL WORKING FLUIDS: Acticide MBS microbiocide is recommended for the control of bacteria and fungi in aqueous metal working fluid solutions and emulsions. Add 32 fluid ounces (2 lb.) per 1000 gallons of emulsion every 4 weeks for maintenance of a non-fouled system. For a noticeably fouled system use an initial dose of 64 to 160 fluid ounces (4.5 to 10 lb.) per 1000 gallons emulsion 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.

PRESERVATIVE FOR TEXTILES/CORDAGE PRODUCTS AND TEXTILE/TEXTILE-FIBERS MAKING: Acticide MBS is recommended as a preservative for the control of bacteria and fungi 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 1.5 to 3.0 lbs. Acticide MBS per 1000 lbs. of fluid to provide 75 to 150 ppm of active ingredients.

Acticide MBS microbiocide weighs 8.6 lbs. per gallon

