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 labeling 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 ½ 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 ½ 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.

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.

Precautionary Statements:
Hazards to Humans and Domestic Animals

DANGER
CORROSIVE. CAUSES EYE DAMAGE AND SKIN BURNS. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF INHALED OR ABSORBED THROUGH THE SKIN. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. WEAR GOGGLES OR FACE SHIELD WHEN HANDLING. HARMFUL IF SWALLOWED. AVOID BREATHING VAPOR OR SPRAY MIST. AVOID CONTAMINATION OF FOOD. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING. 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.


* Not approved for use in the State of California

EPA Reg. No. 67071-18 EPA Est. No 67071-DEU-001

Manufactured By/For: Thor GmbH
U.S. Office: Thor Specialties, Inc. 50 Waterview Drive, Shelton, CT 06484 USA
Tel. (203) 516-6980

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

For Transportation / Spills Emergency call Chemtrec at 1-800-424-9300
ACTICIDE® GA
INFORMATION SHEET

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

DIRECTIONS FOR USE

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

PRESERVATIVE FOR ADHESIVES AND TACKIFIERS: ACTICIDE® GA microbiocide is recommended as an in-container 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® GA microbiocide is recommended as a preservative for tackifiers derived from rosin and hydrocarbon resins. Add 0.5 to 1.65 lb ACTICIDE® GA microbiocide to each 1000 lb of fluid to provide 5.5 ppm to 18.3 ppm isothiazolones and 26 to 86 ppm bronopol. A higher dosage rate providing up to 33 ppm isothiazolones and 248 ppm bronopol may be required for storage during extremely high temperatures and humidity.

PRESERVATIVE FOR BUILDING MATERIALS: ACTICIDE® GA microbiocide is recommended as an in-container preservative for the control of bacteria and fungi in building materials such as mastics, caulks, joint cements, spackling and grouting. Add 0.5 to 1.65 lb of ACTICIDE® GA microbiocide to each 1000 lb of fluid to provide 5.5 ppm to 18.3 ppm isothiazolones and 26 to 86 ppm bronopol.

PRESERVATIVE FOR LATICES: ACTICIDE® GA 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. Add 0.5 to 3.3 lb (227 g to 1.5 kg) of ACTICIDE® GA microbiocide to each 1000 lb (454 kg) of emulsion to provide 5.5 ppm to 36.6 ppm active isothiazolones and 26 to 172 ppm bronopol. Note: to insure uniform mixing, add ACTICIDE® GA 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.

DISPERSED PIGMENT: ACTICIDE® GA microbiocide is recommended for the control of bacteria and fungi in the manufacture and storage of dispersions/emulsions/solutions/suspensions such as kaolin clay, montmorillonite clay, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate and kieselguhr used in paint and paper productions. Add 0.42 to 2.29 lbs of ACTICIDE® GA to each 1000 lb. (0.05% to 0.27% wt/wt) of fluid to provide 6 to 33 ppm active isothiazolones and 26 to 151 ppm active bronopol.

PRESERVATIVE FOR PAINTS AND COATINGS: ACTICIDE® GA microbiocide is recommended as an in-container preservative for the control of bacteria and fungi in water based coatings including paper, wood coatings and paints (including paint wash solutions) used for architectural, product finishes, sealants, and special purpose coatings. Add 0.5 to 1.65 lb (227 to 750 grams) ACTICIDE® GA microbiocide to each 1000 lb (454 kg) of fluid to provide 5.5 ppm to 18.3 ppm isothiazolones and 26 to 86 ppm bronopol. A higher dosage rate providing up to 33 ppm isothiazolones and 248 ppm bronopol may be required for storage during extremely high temperatures and humidity.
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Special Purpose Coating Uses: Include use as a: <> preservative for *electrodeposition paints or solutions, <> preservative for photoplatting 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. *Not approved for use in the State of California

The application/addition directions for these special purpose coating uses are:

* Electrodeposition: ACTICIDE® GA 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® GA 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® GA 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 670 to 2400 ppm ACTICIDE® GA microbiocide (6.4 to 22.9 gallons per 10,000 gallons of fluid in the system). This will provide 7.4 to 26 ppm of isothiazolones and 35 to 125 ppm bronopol. Repeat until control is achieved. When microbial control is evident, add 334 to 1055 ppm ACTICIDE® GA (3.2 to 10.1 gallons per 10,000 gallons of fluid in the system) weekly or as needed to maintain the system. This will provide 4 - 12 ppm of isothiazolones and 17-55 ppm bronopol. 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 use in the State of California

* Treatment Of Electrodeposition Paint Components: Initial Dose of Paint Components: ACTICIDE® GA 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 334 to 2400 ppm product (4 - 26 ppm isothiazolones and 17-125 bronopol). Supplemental Tanked Dosing of Electrodeposition System: If additional microbial control is necessary, ACTICIDE® GA microbiocide may be added to the electrodeposition system tankside to supplement the microbiocide incorporated through paint components. If the system becomes noticeably fouled, add 670 to 2400 ppm ACTICIDE® GA microbiocide (6.4 to 22.9 gallons per 10,000 gallons of fluid in the system). This will provide 7.4 - 26 ppm of isothiazolones and 35-125 ppm of bronopol. Repeat until control is achieved. When microbial control is evident, the system can be maintained by addition of 334 to 1055 ppm. ACTICIDE® GA microbiocide (3.2 to 10.1 gallons per 10,000 gallons of fluid in the system) weekly or as needed. This will provide 4 - 12 ppm of isothiazolones and 17-55 ppm of bronopol. NOTE: Regardless of the manner of incorporation, the total active ingredient level in the system should never exceed 26 ppm isothiazolones and 125 ppm bronopol (equivalent to 2400 ppm ACTICIDE® GA or 22.9 gallons per 10,000 gallons of system fluid).

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Photoplate Processing, Fountain Solutions, And Ink/Ink Components: ACTICIDE® GA microbiocide is recommended for the control of bacteria and fungi in photoplate processing including stabilizer solutions and in fountain solutions. ACTICIDE® GA microbiocide is recommended for water-based printing inks including flexographic, gravure, screen and ink jet types. ACTICIDE® GA microbiocide is recommended for the control of bacteria and fungi in printing ink components including resins, plasticizers, water soluble dyes, pigments, gelling agents, waves, surfactants, and thickeners. ACTICIDE® GA 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.

NOTE: To insure uniform mixing, add ACTICIDE® GA 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.

AQUEOUS COMPOSITIONS: ACTICIDE® GA is recommended as an in-container preservative for the control of bacteria and fungi in aqueous products such as aqueous emulsions and dispersions including pesticide formulation, *stabilized oil/water emulsions, *silicon emulsions, *surface preparation compounds, *foam control products, *nutrient solutions. *Not approved for these uses in the State of California

Add 0.5 to 3.3 lb (227 g to 1.5 kg) of ACTICIDE® GA to each 1000 lb of composition (0.05% to 0.32% wt/wt) to provide 5.5 ppm to 38.6 ppm active isothiazolones and 26 to 181 ppm bronopol.

* INDUSTRIAL PROCESS WATERS: ACTICIDE® GA microbiocide is recommended for the control of bacteria, algae and fungi in holding ponds, process tanks of industrial water systems. Use of ACTICIDE® GA in these systems will also help control of microorganisms in the piping systems. Add 0.3 to 3.3 lb of ACTICIDE® GA per 1000 gallons of water 40 to 400 ppm ACTICIDE® GA) weekly or as needed for maintenance. For noticeably fouled systems use an initial dose of 1.25 to 7.5 lb ACTICIDE® GA per 1000 gallons of water. Repeat if necessary to achieve control. *Not approved for use in the State of California
**METAL WORKING AND METAL CLEANING FLUID PRESERVATION**

*Metal Working Fluid Preservation:* ACTICIDE® GA microbiocide is recommended for the control of bacteria and fungi in aqueous metal working fluid solutions and emulsions. Add 32 fluid ounces (2.2 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 11 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.

*Not approved for use in the State of California*

*Metal Cleaning Fluid Preservation:* ACTICIDE® GA microbiocide is recommended as a preservative for use in the manufacture and use of alkaline, acid and emulsion based metal cleaning fluids typically used in electroplating, phosphatizing, galvanizing and general metal cleaning operations. For addition to a metal cleaning concentration, add ACTICIDE® GA microbiocide at a level to ensure that the final use-dilution fluid will contain 334 to 2400 ppm product (about 4 to 26 ppm active isothiazolones and 17 to 125 ppm bronopol). For direct addition to a fouled system, add 83 to 293 fluid ounces (5.6 to 20 lb) of ACTICIDE® GA microbiocide to each 1000 gallons of use-dilution metal cleaning fluid every 3 to 4 weeks to provide 668 to 2110 ppm product (about 7.4 to 26 ppm active isothiazolones and 35 to 125ppm bronopol). A higher dosage range and/or increased frequency of treatment may be required depending upon rate of dilution of the preservative with the make-up fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc. The preservative should be dispensed into the use-dilution metal cleaning fluid using a metering pump and uniformly dispersed throughout the system.

*Not approved for use in the State of California*
**ACTICIDE® GA**

**INFORMATION SHEET**

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**DIRECTIONS FOR USE**

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* **FUELS/OIL/STORAGE TANK BOTTOM WATER/CRACTUE:** ACTICIDE® GA is recommended for the control of bacteria and fungi in the following liquid hydrocarbon fuels and oils: crude oils, aviation fluids, kerosene, heating oils, residual fuel oils, coal slurries, liquefied petroleum gases, petrochemical feedstocks and diesel fuels. ACTICIDE® GA is recommended for commercial and industrial use only. ACTICIDE® GA 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® GA 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® GA 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® GA 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. FOR USE IN AVIATION FUEL, THE FEDERAL AVIATION ADMINISTRATION (FAA) MUST BE CONSULTED AS TO THE ACCEPTABILITY OF THE ADDITIVE FOR USE IN SPECIFIC ENGINES AND/OR AIRCRAFT.

* Not approved for use in the State of California

**HOUSEHOLD CONSUMER, INDUSTRIAL, JANITORIAL PRODUCTS** ACTICIDE® GA is added at a level of 0.5 to 1.5 lb. (225 - 680 grams) to each 1000lb. (453.6 kilograms) of product to be protected to provide 6 to 22.5 ppm of active isothiazolinones. For the control of bacteria and fungi 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/refresher products, liquid and solid air fresheners/deodorizers, car care products, and other similar cleaners., use 0.5 to 1.0 lb. of ACTICIDE® GA per each 1000lb. (453.6 kilograms) of treated product to provide a level of 6 to 15 ppm of active ingredient (isothiazolinones). ACTICIDE® GA may also be used for control of bacteria and fungi in package utility products such as pre-moistened sponges and mops. Use 0.5 to 1.5 lb. in each 1000 lb. of water to pre-moistened sponges and mops. ACTICIDE® GA may also be used for the control of bacteria and fungi 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 for personal care, as baby wipes, or for food contact. ACTICIDE® GA is added at a level of 0.5 to 1.5 lb. (225 - 680 grams) to each 1000lb. (453.6 kilograms) of product to be protected to provide 6 to 22.5 ppm of active isothiazolinones.

ACTICIDE® GA microbiocide 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 0.15% ACTICIDE® GA microbiocide.
ACTICIDE® GA
INFORMATION SHEET

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DIRECTIONS FOR USE

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* 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® GA 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® GA 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 use in the State of California

For Preservation of Papermaking additives and coatings:  This product should be added directly to the material to be preserved during the manufacture of the papermaking product. Dosing may be repeated as necessary. The dosage rates are as follows:
Adhesives:  Add 0.5 to 1.65 lb ACTICIDE® GA microbiocide to each 1000 lb of fluid to provide 5.5 ppm to 18.3 ppm isothiazolones and 26 to 86 ppm bronopol. A higher dosage rate providing up to 33 ppm isothiazolones and 248 ppm bronopol may be required for storage during extremely high temperatures and humidity
Coatings:  Add 0.5 to 1.65 lb (227 to 750 grams) ACTICIDE® GA microbiocide to each 1000 lb (454 kg) of fluid to provide 5.5 ppm to 18.3 ppm isothiazolones and 26 to 86 ppm bronopol. A higher dosage rate providing up to 33 ppm isothiazolones and 248 ppm bronopol may be required for storage during extremely high temperatures and humidity
Polymers/latrices:  Add 0.5 to 3.3 lb (227 g to 1.5 kg) of ACTICIDE® GA microbiocide to each 1000 lb (454 kg) of emulsion to provide 5.5 ppm to 36.6 ppm active isothiazolones and 26 to 172 ppm bronopol. Note: to insure uniform mixing, add ACTICIDE® GA microbiocide to latex or solutions slowly with agitation
*Dispersed pigments:  Add 0.42 to 2.29 lbs of ACTICIDE® GA to each 1000 lb. (0.05% to 0.27% wt/wt ) of fluid to provide 6 to 33 ppm active isothiazolones and 26 to 151 ppm active bronopol.
*Not approved for use in the State of California

*Emulsions:  Add 0.5 to 3.3 lb (227 g to 1.5 kg) of ACTICIDE® GA to each 1000 lb of composition (0.05% to 0.32% wt/wt) to provide 5.5 ppm to 38.6 ppm active isothiazolones and 26 to 181 ppm bronopol.
*Not approved for use in the State of California

*Foam control products:  Add 0.5 to 3.3 lb (227 g to 1.5 kg) of ACTICIDE® GA to each 1000 lb of composition (0.05% to 0.32% wt/wt) to provide 5.5 ppm to 38.6 ppm active isothiazolones and 26 to 181 ppm bronopol.
*Not approved for use in the State of California

GENERAL ADVISORY STATEMENT   ACTICIDE® GA SHOULD 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 4-36.6 PPM ACTIVE ISOTHIAZOLONES AND 26-172 PPM BRONOPOL, AS DESCRIBED ABOVE, EXCEPT FOR PAINTS AND COATINGS WHICH SHOULD BE AT 4 - 33 PPM ISOTHIAZOLONES AND 26 - 248 PPM BRONOPOL, AS DESCRIBED ABOVE.
ACTICIDE® GA microbiocide weighs 8.7 lb. per gallon.