



ACTICIDE® SR 2060

Industrial microbiocide for use in adhesives, tackifiers, paints, coatings, building materials, polymer latices, printing inks, metal working, metal cleaning fluids and other cleaners such as liquid soaps, cleaners, detergents, carpet shampoos for industrial and household uses and in polishes and waxes, fuels/oil/storage tank bottom water/crude, dispersions/emulsions/solutions/suspensions, and aqueous compositions, recirculating water cooling towers, air washer systems, oil field injection waters, paper slime control, recirculating closed loop water cooling systems, brewery pasteurizer and can warmer systems, ultra filtration units, such as reverse osmosis systems which are classified as indoor non-food and non-food applications.

ACTIVE INGREDIENTS:

- 2-Bromo-2-nitropropane-1, 3-diol 5.2%
- 5-Chloro-2-methyl-4-isothiazolin-3-one 0.8%
- 2-Methyl-4-isothiazolin-3-one 0.3%

INERT INGREDIENTS: 93.7%
 TOTAL: 100.0%

KEEP OUT OF REACH OF CHILDREN

DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

FIRST AID

IF SWALLOWED: *Call a poison control center or doctor immediately for treatment advice.

- *Have person sip a glass of water if able to swallow.
- *Do not induce vomiting unless told to do so by a poison control center or doctor.
- *Do not give anything by mouth to an unconscious person.

IF ON SKIN: *Take off contaminated clothing.

OR CLOTHING *Rinse skin immediately with plenty of water for 15-20 minutes.
*Call a poison control center or doctor for treatment advice.

IF IN EYES: *Hold eye open and rinse slowly and gently with water for 15-20 minutes.
*Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
*Call a poison control center or doctor for treatment advice.

IF INHALED: *Move person to fresh air.
*If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
*Call a poison control center or doctor for further treatment advice.

HOT LINE NUMBER: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

EPA Reg. No. 67071-18
Manufactured By:
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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

NOT FOR SALE OR USE AFTER 12 MONTHS FROM DATE OF MANUFACTURING.

Net Contents: _____ Pounds

Date of Manufacture: _____

Lot #: _____

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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

STORAGE AND DISPOSAL

PROHIBITIONS: This product (pH 3.5) is corrosive to mild steel. Do not store in unlined containers. Do not contaminate food or feed by storage, disposal or cleaning of equipment.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: 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 the smoke.

GENERAL: CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES.

ACCEPTED
 AUG 05 2003
 Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 67071-18

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# 180(c1)_061103

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AUG 05 2003

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 SR 2060 microbicide 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 SR 2060 microbicide is recommended as a preservative for tackifiers derived from rosin and hydrocarbon resins.

Add 0.5 to 1.65 lb Acticide SR 2060 microbicide 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 SR 2060 microbicide 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 SR 2060 microbicide 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 SR 2060 microbicide 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 SR 2060 microbicide 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 SR 2060 microbicide 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.

PRESERVATIVE FOR PAINTS AND COATINGS: Acticide SR 2060 microbicide is recommended as an in-container preservative for the control of bacteria and fungi in water based coatings such as paper, wood coatings and paints used for architectural, product finishes, sealants, and special purpose coatings.

Add 0.5 to 1.65 lb (227 to 750 grams) Acticide SR 2060 microbicide 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.

Special purpose coating uses: Include use as a <> preservative for electrodeposition paints or solutions, <> preservative for electroplating 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 SR 2060 microbicide 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 SR 2060 microbicide may be added through the components of the electrodeposition paint prior to their addition to the electrodeposition system.

Tankside Addition To Electrodeposition Systems: Acticide SR 2060 microbicide 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 SR 2060 microbicide (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 SR 2060 (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.

TREATMENT OF ELECTRODEPOSITION PAINT COMPONENTS: Initial Dose of Paint Components: Acticide SR 2060 microbicide 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 ppm bronopol).

Supplemental Tanked Dosing of Electrodeposition System: If additional microbial control is necessary, Acticide SR 2060 microbicide may be added to the electrodeposition system tankside to supplement the microbicide incorporated through paint components. If the system becomes noticeably fouled, add 670 to 2400 ppm Acticide SR 2060 microbicide (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 SR 2060 microbicide (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 SR 2060 or 22.9 gallons per 10,000 gallons of system fluid).

PHOTOPLATE PROCESSING, FOUNTAIN SOLUTIONS, AND INK/INK COMPONENTS

Acticide SR 2060 microbicide is recommended for the control of bacteria and fungi in photoplate processing such as stabilizer solutions and in fountain solutions. Acticide SR 2060 microbicide is recommended for water-based printing inks such as flexographic, gravure, screen and ink jet types. Acticide SR 2060 microbicide 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 SR 2060 microbicide should be added to achieve the recommended dosage range for ink, ink components, fountain solutions and photoplate processing chemicals 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 SR 2060 microbicide 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.

METAL WORKING AND METAL CLEANING FLUID PRESERVATION

Metal Working Fluid Preservation: Acticide SR 2060 microbicide 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.

Metal Cleaning Fluid Preservation: Acticide SR 2060 microbicide 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 SR 2060 microbicide 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 SR 2060 microbicide 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 125 ppm 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.

LIQUID SOAPS, CLEANERS, DETERGENTS, CARPET SHAMPOOS FOR INDUSTRIAL AND HOUSEHOLD USES AND IN POLISHES AND WAXES

Acticide SR 2060 is added at a level of 0.4 to 1.5 lb. (180 - 680 grams) to each 1000lb. (453.6 kilograms) of product to be protected to provide 6 to 22.5 ppm of active isothiazolinones.

For control of bacteria and fungi in liquid detergents, in liquid laundry products and also in dishwashing detergents, waxes, polishes, and other similar cleaners, use 0.4 to 1.0 lb. of Acticide SR 2060 per each 1000lb. (453.6 kilograms) of treated product to provide a level of 6 to 15 ppm of active ingredient (isothiazolinones).

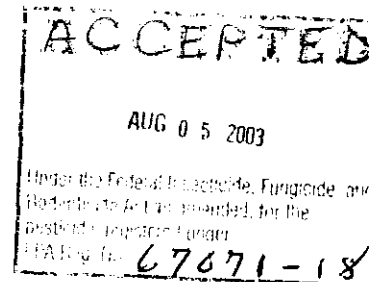
Acticide SR 2060 may also be used for control of bacteria and fungi in package utility products such as pre-moistened sponges and mops. Use 0.4 to 1.5 lb. in each 1000 lb. of water to pre-moistened sponges and mops.

FUELS/OIL/STORAGE TANK BOTTOM WATER/CRUDE: Acticide SR 2060 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 SR 2060 is recommended for Refinery and Terminal use only. Acticide SR 2060 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 SR2060 per 1000 gallons of fluid in the system (0.01% w/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 SR2060 per 1000 gallons (14.4 ppm of isothiazolones and 66 ppm of bronopol) of fluid (0.12% w/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 SR2060 per 1000 gallons of fluid to maintain the system (0.02% w/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.

DISPERSED PIGMENT: Acticide SR 2060 microbicide 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 SR2060 to each 1000 lb. (0.05% to 0.27% w/wt) of fluid to provide 6 to 33 ppm active isothiazolones and 26 to 151 ppm active bronopol.

AQUEOUS COMPOSITIONS: Acticide SR2060 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, silicone emulsions, surface preparation compounds, foam control products, nutrient solutions and pesticide formulations. Add 0.5 to 3.3 lb (227 g to 1.5 kg) of Acticide SR2060 to each 1000 lb of composition (0.05% to 0.32% w/wt) to provide 5.5 ppm to 38.6 ppm active isothiazolones and 26 to 181 ppm bronopol.



DIRECTIONS FOR USE - CONTINUED

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

INDUSTRIAL RECIRCULATING WATER COOLING TOWER: Acticide SR 2060 microbiocide is recommended for the control of bacteria, algae and fungi. It should be added to the tower basin or some other point to ensure uniform mixing. Add 0.3 to 3.3 lb of Acticide SR 2060 per 1000 gallons of water (40 to 400 ppm Acticide SR 2060) weekly or as needed for maintenance. For noticeably fouled systems use an initial dose of 1.25 to 7.5 lb Acticide SR 2060 per 1000 gallons of water. Repeat if necessary to achieve control.

AIR WASHER SYSTEMS: For use only in industrial air washing systems that maintain effective mist eliminating components.

Add 0.3 to 7.5 lb Acticide SR 2060 to 1000 gallons of water (35 to 886 ppm Acticide SR 2060) in the air washer sump, or chill water sump to ensure uniform mixing, for the control of bacteria, fungi and algae. A repeat treatment may be needed depending on the severity of contamination.

OIL FIELD INJECTION WATERS: Add 23 to 58 lb (2.8 to 6.9 gallons) Acticide SR 2060 per 1000 barrels of water (66 to 165 ppm Acticide SR 2060) weekly or as needed to maintain control of slime-forming and sulfate reducing bacteria in oil and gas field water systems including enhanced recovery injection fluids and drilling fluids. An initial dose of 57 to 115 lb Acticide SR 2060 per 1000 barrels of water (162 to 324 ppm Acticide SR 2060) 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 0.45 to 7.5 lb of Acticide SR 2060 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 SR 2060 should be added to a point such as the Beater or Hydropulper to ensure uniform mixing.

INDUSTRIAL RECIRCULATING CLOSED LOOP WATER COOLING SYSTEMS: Add 0.3 to 3.3 lb of Acticide SR 2060 per 1000 gallons of water in the system weekly to maintain control of bacteria, fungi and algae in the reservoir, recirculating line or some other point to ensure uniform mixing. For noticeably fouled systems an initial treatment with 1.25 to 7.5 lb Acticide SR 2060 per 1000 gallons of water may be needed depending on the severity of the fouling.

BREWERY PASTEURIZERS AND CAN WARMER SYSTEMS: Add 0.3 to 3.3 lb of Acticide SR 2060 per 1000 gallons of water in the system weekly or as needed to maintain control of bacteria, algae and fungi. For noticeably fouled systems an initial treatment with 1.25 to 7.5 lb of Acticide SR 2060 per 1000 gallons of water may be needed depending on the severity of the fouling.

ULTRA FILTRATION UNITS, SUCH AS REVERSE OSMOSIS SYSTEMS: Acticide SR 2060 microbiocide is recommended for the control of bacteria and fungi in ultra filtration units, such as reverse osmosis systems. Add 10 - 600 ppm of Acticide SR 2060 microbiocide into industrial ultra filtration or reverse osmosis systems by either continuous feed or periodic injection. Compatibility of Acticide SR 2060 microbiocide with reverse osmosis membranes should be confirmed with membrane manufacturers.

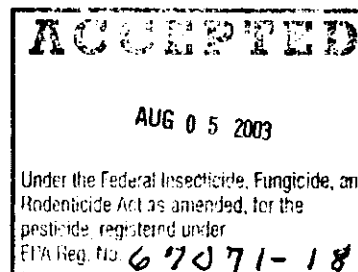
For the control of bacteria and fungi in carbon beds, add 10 - 600 ppm of Acticide SR 2060 microbiocide. For periodic membrane cleaning, add 0.3 - 1.75 lbs of Acticide SR 2060 microbiocide to every 120 gallons of cleaning solution (6 - 15 ppm active ingredient).

Badly fouled systems should be cleaned before treatment is begun.

GENERAL ADVISORY STATEMENT

ACTICIDE SR 2060 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, EXCEPT FOR PAINTS AND COATINGS WHICH SHOULD BE AT 4 - 33 PPM ISOTHIAZOLONES AND 26 - 248 PPM BRONOPOL, AND EXCEPT AS DESCRIBED ABOVE OR FOR NOTABLY FOULED SYSTEMS

Acticide SR 2060 microbiocide weighs 8.7 lb. per gallon.



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