

ANTIMICROBIAL 8536

Controls bacteria, fungi, and yeasts in paper mills, metalworking fluids containing water, and enhanced oil recovery systems; controls bacteria, fungi, and algae in industrial recirculating water cooling towers; controls slime-forming bacteria and fungi in air-washer systems.

KEEP OUT OF REACH OF CHILDREN DANGER

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

DANGER • CORROSIVE: Causes irreversible eye damage • May be fatal if swallowed. • Causes skin irritation • Harmful if inhaled or absorbed through skin. • Do not get in eyes, on skin or on clothing. • Avoid breathing spray or mist. • When loading or handling wear protective eyewear (goggles or face shield) Wear long-sleeved shirt and long pants, socks, shoes and chemically resistant gloves • Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals • Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. • Remove and wash contaminated clothing separately before reuse.

Personal Protective Equipment

Applicators and other handlers must wear:

- coveralls, over long-sleeved shirt and long pants
- socks and chemical resistance footwear
- goggles or face shields
- chemical-resistant gloves (such as barrier, laminate, butyl nitrile/neoprene rubber, pvc or viton)

Engineering Controls

When handlers use closed metering systems the handler requirements may be reduced or modified to long-sleeve shirt, long pants, shoes and socks.

User Safety Requirements

Follow manufacturers' instructions for cleaning & maintaining PPE if no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Users must wash hands before eating, drinking, chewing gum, or using the toilet. Users must remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users must remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Application Restrictions

Do not apply this product directly in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Apply this product only as specified on this label. Do not contaminate water by cleaning of equipment, or disposal of wastes. 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.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: To maintain product quality, store at temperatures below 35°C. Keep container tightly closed when not in use.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, 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 your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. 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.

Notice: Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

FOR INDUSTRIAL USE

Active Ingredient(s):

2,2-Dibromo-3-nitropropionamide 5%

Inert Ingredient(s):

..... 95%

Total 100%

FIRST AID:

IF IN EYES	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 30 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15–20 minutes.• Call a poison control center or doctor for treatment advice.
IF SWALLOWED	<ul style="list-style-type: none">• Call poison control center or doctor immediately for treatment advice.• Have a 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 INHALED	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call an emergency responder or an ambulance, then give artificial respiration, preferably mouth-to-mouth.• Call a poison control center or doctor for further treatment advice.

Have product container or label with you when calling a poison control center or doctor or going for treatment.

HOT LINE NUMBER

IN CASE OF AN EMERGENCY endangering life or property involving this product, call collect (989)636-4400.

NOTE TO PHYSICIAN

If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.



LICENSED

PERIOD **2015-2017** LIC. NO.

9197.210



LICENSED

PERIOD **2012-2014** LIC. NO.

Produced For



THE DOW CHEMICAL COMPANY

Midland, Michigan 48674

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Net Contents: 53.3 gallons
Net Weight: 500 lb / 226.8 kg
Lot No:

DIRECTIONS FOR USE

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

NOTE: ADD ANTIMICROBIAL 8536 SEPARATELY TO THE SYSTEM. DO NOT MIX IT WITH OTHER ADDITIVES, IN ORDER TO AVOID DECOMPOSITION OF ANTIMICROBIAL 8536 DUE TO THE HIGH pH OF MANY ADDITIVE FORMULATIONS.

PAPER MILLS

For the control of bacterial, fungal, and yeast growths in pulp, paper and paperboard mills, add ANTIMICROBIAL 8536 at the rate of 0.06-0.21 gal/ton of pulp or paper (dry basis). Addition may be continuous or intermittent, depending upon the type of system and the severity of contamination. It must be made with a metering pump at a location that will insure uniform distribution of ANTIMICROBIAL 8536 in the mass of fiber and water, such as the beaters, jordan inlet or discharge, broke chests, furnish chests, save-alls, and white-water tanks.

HEAVILY FOULED SYSTEMS must be boiled out, then treated with 0.06-0.15 gal ANTIMICROBIAL 8536/ton of paper (dry basis), as necessary for control. MODERATELY FOULED SYSTEMS must be treated continuously with 0.15-0.21 gal ANTIMICROBIAL 8536/ton of paper (dry basis) until the slime accumulation is controlled. Addition rates can then be reduced to 0.06-0.15 gal ANTIMICROBIAL 8536/ton of paper on a continuous or intermittent basis, as needed for control. Dislodged slime may cause breaks in the paper and a clean-up of the paper machine may be advisable.

SLIGHTLY FOULED SYSTEMS must be treated continuously with 0.06-0.15 gal ANTIMICROBIAL 8536/ton of paper (dry basis) until the slime is controlled, then added on an intermittent basis to maintain control.

METALWORKING FLUIDS CONTAINING WATER

This product is effective in metalworking fluid concentrates which have been diluted in water at ratios of 1:100-1:4.

For controlling (or inhibiting) the growth of bacteria, fungi, and yeasts that may deteriorate metalworking fluids containing water, add ANTIMICROBIAL 8536 to the fluid in the collection tank. Additions must be made with a metering pump.

INITIAL OR SLUG DOSE: When the system is just noticeably fouled, add 1.1 gal ANTIMICROBIAL 8536/1,000 gal of metalworking fluid to the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 0.44-0.88 gal ANTIMICROBIAL 8536/1,000 gal of metalworking fluid per day, or as needed to maintain control. Additions can be made continuously or intermittently. Slug the system as required.

ENHANCED OIL RECOVERY SYSTEMS

For controlling slime-forming bacteria, sulfide-producing bacteria, yeasts, and fungi in oil field water, polymer or micellar floods, water-disposal systems, or other oil field water systems, add 4-320 ppm ANTIMICROBIAL 8536 (0.4-28.6 gal ANTIMICROBIAL 8536 per 2400 barrels of water) depending on the severity of contamination. Additions must be made with a metering pump either continuously or intermittently.

CONTINUOUS FEED METHOD

When the system is noticeably fouled, add 40-320 ppm ANTIMICROBIAL 8536 (3.6-28.6 gal ANTIMICROBIAL 8536 per 2400 barrels of water) continuously until the desired degree of control is achieved. Subsequently, treat with 4-60 ppm ANTIMICROBIAL 8536 (0.4-5.4 gal ANTIMICROBIAL 8536 per 2400 barrels of water) continuously or as needed to maintain control.

INTERMITTENT OR SLUG METHOD

When the system is noticeably fouled, or to maintain control of the system, add 40-320 ppm ANTIMICROBIAL 8536 (3.6-28.6 gal ANTIMICROBIAL 8536 per 2400 barrels of water) intermittently for 4-8 hours per day, and from 1-4 times per week, or as needed depending on the severity of contamination.

Addition of ANTIMICROBIAL 8536 may be made at the free water knockouts, before or after the injection pumps and injection well headers. NOTE: FOR CONTROL OF BACTERIA, YEAST, AND FUNGI IN AQUEOUS SOLUTIONS OF BIOPOLYMER USED IN FLOODING OPERATIONS, add 60-320 ppm ANTIMICROBIAL 8536 (5.4-28.6 gal ANTIMICROBIAL 8536 per 2400 barrels of water). Additions of ANTIMICROBIAL 8536 must be made with a metering pump IMMEDIATELY after preparation of the aqueous biopolymer solution to prevent loss of viscosity.

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS

Add ANTIMICROBIAL 8536 to the basin (or any other point of uniform mixing). Addition must be made with a metering pump; it may be continuous or intermittent, depending on the severity of the contamination when treatment is begun, and the retention time of the system.

Optimum performance with this product is attained by continuous or intermittent treatment. If "shock" treatment is used, the blowdown must be discontinued for 24-48 hours.

FOR CONTROL OF BACTERIA

Add 0.0038-0.038 gal ANTIMICROBIAL 8536/1,000 gal of water in the system, depending on the severity of contamination

INTERMITTENT OR SLUG METHOD

INITIAL DOSE: When the system is noticeably fouled, add 0.019-0.038 gal ANTIMICROBIAL 8536/1,000 gal of water in the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident add 0.0095-0.038 gal ANTIMICROBIAL 8536/1,000 gal of water in the system every 4 days, or as needed to maintain control.

BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD

INITIAL DOSE: When the system is noticeably fouled, add 0.019-0.038 gal ANTIMICROBIAL 8536/1,000 gal of water in the system.

SUBSEQUENT DOSE: Maintain this level by pumping a continuous feed of 0.0038-0.019 gal ANTIMICROBIAL 8536/1,000 gal of water in the system per day.

BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

FOR CONTROL OF FUNGI AND ALGAE

Add 0.116-0.380 gal ANTIMICROBIAL 8536/1,000 gal of water in the system depending on the severity of contamination.

INTERMITTENT OR SLUG METHOD

INITIAL DOSE: When the system is noticeably fouled, add 0.192-0.380 gal ANTIMICROBIAL 8536/1,000 gal of water in the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 0.116-0.380 gal ANTIMICROBIAL 8536/1,000 gal of water in the system daily, or as needed to maintain control.

BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD

INITIAL DOSE: When the system is noticeably fouled add 0.192-0.380 gal ANTIMICROBIAL 8536/1,000 gal of water to the system.

SUBSEQUENT DOSE: Maintain this treatment level by pumping a continuous feed of 0.116-0.380 gal ANTIMICROBIAL 8536/1,000 gal of water in the system per day.

BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

AIR-WASHER SYSTEMS

Add 0.0078-0.250 gal ANTIMICROBIAL 8536/1,000 gal of water in the system, depending upon the severity of contamination to control slime-forming bacteria and fungi in industrial air-washer systems.

INTERMITTENT OR SLUG METHOD

INITIAL DOSE: When the system is noticeably fouled add 0.156-0.250 gal ANTIMICROBIAL 8536/1,000 gal of water in the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 0.0078-0.125 gal ANTIMICROBIAL 8536/1,000 gal of water in the system every 2 days or as needed to maintain control.

BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD

INITIAL DOSE: When the system is noticeably fouled, add 0.156-0.250 gal ANTIMICROBIAL 8536/1,000 gal of water in the system.

SUBSEQUENT DOSE: Maintain this level by pumping a continuous feed of 0.0078-0.125 gal ANTIMICROBIAL 8536/1,000 gal of water in the system per day.

BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

Note: For use only in industrial air-washer systems that maintain effective mist eliminating components.