

464-496

08-06-2010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

AUG - 6 2010

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Rhonda Vance-Moeser
The Dow Chemical Company
1803 Building
Midland, MI 48674

Subject: Antimicrobial 8536
EPA Registration Number: 464-496
Application Date: May 15, 2010
Receipt Date: May 17, 2010

Dear Ms. Vance-Moeser:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide (FIFRA), as amended, is acceptable with the conditions.

Proposed Amendment:

- Delete Once Through Cooling Water System Site

Conditions

Revise the label as follows:

- 1.) Delete the "User Safety Recommendations" heading because it is not in agreement with PR Notice 2000-5, Mandatory Labeling.
- 2.) The "Paper Mills," "Metal Working Fluids containing Water," "Enhanced Oil Recovery Systems, and "Industrial Recirculating Water Cooling Towers" directions must be brought into compliance with PR Notice 2000-5, Mandatory label, by deleting the term, should, and stating "must."

General Comments

A stamped label with conditions is enclosed for your records. Submit three (3) copies of your final printed label before distributing or selling the product bearing the revised labeling.

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

Should you have further questions concerning this letter, please contact me by telephone at (703) 308-6416 or by e-mail at Campbell-mcfarlane.jacqueline@epa.gov or Killian Swift by telephone at (703) 308-6346 or by email at swift.killian@epa.gov. When submitting information or data in response to this letter, a copy of this letter should accompany the submission to facilitate processing.

Sincerely,



Jacqueline Campbell- McFarlane
Product Manager 34
Regulatory Management Branch II
Antimicrobials Division (7510P)

Enclosure: Stamped Label

CONCURRENCES

SYMBOL							
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DATE							

ANTIMICROBIAL 8536

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Controls bacteria, fungi, and yeasts in paper mills, metalworking fluids containing water, and enhanced oil recovery systems; controls algae in industrial recirculating water cooling towers and in once-through fresh and sea water industrial cooling water systems; controls 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.

User Safety Recommendations

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

Option to use for labels on refillable rigid containers of all sizes.

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.

Option to use for labels on refillable rigid tote containers.

Refillable container: Refill this container with pesticide only. Do not reuse the container for any other purpose. Cleaning of the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean container before final disposal, empty contents into application equipment and triple rinse. Pour or pump rinsate into application equipment or rinsate collection system. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed 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.

RJFR-5/6/2010-RA2010

FOR INDUSTRIAL USE

Active Ingredient(s):

2,2-Dibromo-3-nitropropionamide

Inert Ingredient(s):

Total

FIRST AID:

IF IN EYES	• 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 • Call poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	• 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	• 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	• Move person to fresh air. • If person is not breathing, call an emergency responder or an ambulance. If necessary, provide 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 for treatment.

HOT LINE NUMBER

IN CASE OF AN EMERGENCY endangering life or property involving this product, call

NOTE TO PHYSICIAN

If lavage is performed, suggest endotracheal and/or esophageal control. Danger from luv weighed against toxicity when considering emptying the stomach. Chemical eye burns n irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is thermal burn, after decontamination. No specific antidote. Treatment of exposure shou control of symptoms and the clinical condition of the patient.

E.P.A. Regist
E.P.A. Est. XX

ACCEPTED
with COMMENTS
in EPA Letter Dated:

AUG - 6 2010

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 464-496

Produced For



THE DOW CHEMICAL COMPANY
Midland, Michigan 48674

® TM Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

NET CONTENTS: XXXX gallons
NET WEIGHT: XXXX lb / XXXX kg
LOT NO:

ICROBIAL 8536

id yeasts in paper mills, metalworking fluids containing water, and enhanced oil recovery systems; controls bacteria, fungi, and ating water cooling towers and in once-through fresh and sea water industrial cooling water systems; controls slime-forming her systems.

EACH OF CHILDREN NGER

RY STATEMENTS and Domestic Animals

ANGER

versible eye damage • May be ses skin irritation • Harmful if gh skin • Do not get in eyes, on breathing spray or mist • When protective eyewear (goggles or sleeved shirt and long pants, ally resistant gloves • Prolonged in contact may cause allergic als • Wash thoroughly with soap and before eating, drinking, tobacco • Remove and wash arately before reuse.

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pants

lamine, butyl nitrile/neoprene rubber, pvc or viton)

s the handler requirements may be reduced or modified socks.

ring & maintaining PPE if no such instructions exist for ep and wash PPE separately from other laundry.

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rinking, chewing gum, or using the toilet. Users must gets inside. Then wash thoroughly and put on clean ately after handling this product. Wash the outside of ie, wash thoroughly and change into clean clothing.

that will contact workers or other persons, either directly y be in the area during application.

MENTAL HAZARDS

rganisms. Apply this product only as specified on this g of equipment, or disposal of wastes. Do not discharge s, streams, ponds, estuaries, oceans or other waters ts of a National Pollutant Discharge Elimination System ity has been notified in writing prior to discharge. Do not to sewer systems without previously notifying the local ance contact your State Water Board or Regional Office

SE AND DISPOSAL

r storage or disposal. quality, store at temperatures below 35°C. Keep container

are acutely hazardous. Improper disposal of excess tion of Federal Law. If these wastes cannot be disposed s, contact your State Pesticide or your Environmental e representative at the nearest EPA Regional Office for

le rigid containers of all sizes.

or refill this container. Triple rinse or pressure rinse emptying. Then offer for recycling or reconditioning, or dfill, or by other procedures approved by state and local

rigid tote containers.

r with pesticide only. Do not reuse the container for any ar before final disposal is the responsibility of the person store refilling is the responsibility of the refiller. To clean nents into application equipment and triple rinse. Pour or nt or rinse a collection system. Then offer for recycling if a sanitary landfill, or by incineration, or by other procedures

product conforms to the chemical description t for the purposes stated on the label when e directions. SELLER MAKES NO OTHER ANTY OF MERCHANTABILITY OR FITNESS E OR ANY OTHER EXPRESS OR IMPLIED

FOR INDUSTRIAL USE

Active Ingredient(s):

2,2-Dibromo-3-nitrilopropionamide _____ 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.

E.P.A. Registration No. 464-496
E.P.A. Est. XXX-XX-XXX

ACCEPTED
with COMMENTS
in EPA Letter Dated:

AUG - 6 2010

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 464-496

Produced For



THE DOW CHEMICAL COMPANY
Midland, Michigan 48674

® TM Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

NET CONTENTS: XXXX gallons
NET WEIGHT: XXXX lb / XXXX kg
LOT NO.

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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 SLUGGISHLY 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.

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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 may 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 may 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 may 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 may 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 may 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 may 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 may be made with a metering pump IMMEDIATELY after preparation of the aqueous biopolymer solution to prevent loss of viscosity.

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.

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS

Add ANTIMICROBIAL 8536 to the basin (or any other point of uniform mixing). Addition may 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 may 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.