

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

JUL 18 2006



United States  
Environmental Protection  
Agency

Office of Pesticide Programs

The Dow Chemical Company  
1803 Building  
Midland, Mi 48674

Attention: Abigail Trueblood  
Regulatory Specialist

**Subject: BioBan P-1487 Antimicrobial Agent**  
EPA Registration No. 464-659  
Notification Dated June 19, 2006

This will acknowledge receipt of your notification to modify the label language for the metalworking fluid use, submitted under the provisions of FIFRA Section 3(c)(9). Based on a review of the submitted material, the following comments apply.

The Notification is in compliance with PR Notice 98-10 and is acceptable. This information has been made a part of your file.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217.

Sincerely

A handwritten signature in cursive script that reads 'Marshall Swindell'.

Marshall Swindell  
Product Manager (33)  
Regulatory Management Branch 1  
Antimicrobials Division (7510P)



This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under Sections 12 and 14 of FIFRA.



4 8 8

The Dow Chemical Company  
1500 E. Lake Cook Road  
Buffalo Grove, IL 60089

June 19, 2005

Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U.S. Environmental Protection Agency  
Rom S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

ATTN: Marshall Swindell/PM33

Re: Notification of modified label language for Metalworking Fluid Use  
BIOBAN P-1487™ Antimicrobial Agent (EPA Reg. No. 464-659)

Dear Mr. Swindell:

The Dow Chemical Company (Dow) wishes to notify USEPA of a proposed change in wording of the metalworking enduse for BIOBAN P-1487 Antimicrobial Agent.

The current label contains the following label language: "FOR USE IN METALWORKING FLUIDS, DIE CAST LUBRICANTS AND MOLD-RELEASE AGENTS To control the growth of microorganisms in fluids used as lubricants in metalworking operations, metal die cast applications, and mold-release agents utilized in the manufacture of plastics."

The following label language is proposed: "FOR USE IN METALWORKING FLUIDS, LUBRICANTS, CORROSION INHIBITING METAL COATINGS AND MOLD-RELEASE AGENTS To control the growth of microorganisms in fluids used as lubricants in metalworking operations, industrial lubrication systems, hydraulic fluids, corrosion inhibiting metal coatings, and metal die cast applications, and mold-release agents utilized in the manufacture of plastics."

Dow believes the new label language is consistent with the general metalworking claim and adds clarity by specifically noting corrosion inhibiting coatings and hydraulic fluids. There are no other changes to the label.

Enclosed please find the following:

- EPA Form 8570-1, *Application for Registration* (with attached sheet)
- One copy of proposed label with changed area highlighted.

Please contact me if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Abigail Trueblood".

Abigail Trueblood  
Regulatory Specialist  
847-808-3555  
atrueblood@dow.com

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# BIOBAN P-1487™

## ANTIMICROBIAL AGENT

### Active Ingredient:

4-(2-Nitrobutyl)morpholine . . . . 81% by wt  
 4,4'-(2-Ethyl-2-nitrotrimethylene)  
 dimorpholine . . . . . 5% by wt  
 Inert Ingredients: . . . . . 14% by wt  
 Total 100%

E.P.A. Registration No. 464-659  
 E.P.A. Est. 48301-LA-1

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

**CAUSES SEVERE EYE DAMAGE  
 AND SKIN BURNS • MAY CAUSE  
 ALLERGIC SKIN REACTION •  
 HARMFUL OR FATAL IF  
 SWALLOWED OR ABSORBED  
 THROUGH THE SKIN**

Do Not Get In Eyes, On Skin, On Clothing •  
 Causes Skin Sensitization • Wear Goggles Or  
 Face Shield and Rubber Gloves When  
 Handling • Wash Thoroughly After Handling •  
 Avoid Breathing Vapor Or Mist • Avoid  
 Contamination Of Food • Do Not Take  
 Internally



**THE DOW CHEMICAL COMPANY**

Midland, Michigan 48674 U.S.A.

(989)636-4400

\* Trademark of THE DOW CHEMICAL COMPANY

77117-3/31/2003-1749 Active

<b>IF IN EYES:</b>	• Hold eyes open and rinse slow • Remove contact lenses, if pres • Call a poison control center or
<b>IF SWALLOWED:</b>	• Call a poison control center or • Have person sip a glass of wat • Do not induce vomiting unless
<b>IF ON SKIN:</b>	• Take off contaminated clothing. • Rinse skin immediately with pk • Call a poison control center or
<b>IF INHALED:</b>	• Move person to fresh air. • If person is not breathing, call 9 • preferable mouth to mouth, if pc • Call a poison control center or

**IN CASE OF AN EMERGENCY** endangering life or pr  
container or label with you when calling a poison contro

**NOTE TO PHYSICIAN:** Probable mucosal damage m

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Do not dischar  
 containing this product into lakes, streams, ponds, estuar  
 or other waters unless in accordance with the requireme  
 National Pollutant Discharge Elimination System (NPDI  
 and the permitting authority has been notified in writing p  
 discharge. Do not discharge effluent containing this prod  
 sewer systems without previously notifying the local sew  
 treatment plant authority. For guidance contact your State  
 Board of Regional Office of the EPA.

**Pesticide Disposal:** Pesticide wastes are acutely hazar  
 Improper disposal of excess pesticide, spray mixture, or  
 violation of Federal Law. If these wastes cannot be dispo  
 use according to label instructions, contact your State Pe  
 Environmental Control Agency, or the Hazardous Waste  
 representative at the nearest EPA Regional Office for guid

**Container Disposal:** Triple rinse (or equivalent). Then  
 recycling or reconditioning, or puncture and dispose of in  
 landfill, or by other procedures approved by state and loc  
 authorities.

**Notice:** Seller warrants that the product conforms to its  
 description as contained on this label and is reasonably fit  
 purposes stated on this label when used in accordance w  
 directions under normal conditions of use. THE WARRANT  
 MADE IN THIS PARAGRAPH ARE SELLER'S SOLE  
 WARRANTIES WITH RESPECT TO THE PRODUCT. /  
 MADE EXPRESSLY IN LIEU OF AND EXCLUDE ANY I  
 WARRANTIES OF MERCHANTABILITY OR OF FITNE  
 A PARTICULAR PURPOSE AND ALL OTHER EXPRES  
 IMPLIED REPRESENTATIONS AND WARRANTIES.

**DISINFEC**

**(4-(2-NITROBUTYL) M**

**Apply Tox**

7 8 8

# BAN P-1487™

## IAL AGENT

orpholine . . . 81% by wt  
itrotrilmethylene)  
..... 5% by wt  
..... 14% by wt  
il 100%

In No. 464-659  
-LA-1

### EACH OF CHILDREN



### STATEMENTS

s and Domestic Animals

RE EYE DAMAGE

NS • MAY CAUSE

I REACTION •

FATAL IF

OR ABSORBED

SKIN

- On Skin, On Clothing •
- ation • Wear Goggles Or
- ber Gloves When
- roughly After Handling •
- Or Or Mist • Avoid
- od • Do Not Take

ICAL COMPANY  
74 U.S.A.

CHEMICAL COMPANY

FIRST AID:	
IF IN EYES:	<ul style="list-style-type: none"> <li>• Hold eyes open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first five minutes, then continue rinsing eyes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
IF SWALLOWED:	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> </ul>
IF ON SKIN:	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment.</li> </ul>
IF INHALED:	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable mouth to mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment.</li> </ul>
HOT LINE NUMBER	
IN CASE OF AN EMERGENCY endangering life or property involving this product, call collect (989)636-4400. Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.	

### 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.

**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 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 by other procedures approved by state and local authorities.

**Notice:** Seller warrants that the product conforms to its chemical description as contained on this label and is reasonably fit for the purposes stated on this label when used in accordance with directions under normal conditions of use. THE WARRANTIES MADE IN THIS PARAGRAPH ARE SELLER'S SOLE WARRANTIES WITH RESPECT TO THE PRODUCT AND ARE MADE EXPRESSLY IN LIEU OF AND EXCLUDE ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER EXPRESS OR IMPLIED REPRESENTATIONS AND WARRANTIES.

### DIRECTIONS FOR USE

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

### FOR USE IN METALWORKING FLUIDS, LUBRICANTS, CORROSION INHIBITING METAL COATINGS AND MOLD-RELEASE AGENTS

To control the growth of microorganisms in fluids used as lubricants in metalworking operations, industrial lubrication systems, hydraulic fluids, corrosion inhibiting metal coatings, and metal die cast applications, and mold release agents utilized in the manufacture of plastics:

**In concentrates.** BIOBAN P-1487 is soluble in organic solvents and may be incorporated by the manufacturer in the fluid concentrate. It normally will be stable in such concentrates as long as the pH is maintained above 6. However, long-term stability tests should be carried out by the manufacturer on his specific formulations to ensure that the concentrate does not contain ingredients incompatible with BIOBAN P-1487 stability. The amount to be incorporated will depend on the dilution factor recommended to be used when the concentrate is diluted for use. For efficient bacteriostatic activity, a concentration of 1000 ppm in the diluted fluid is suggested.

**In diluted fluid.** An initial concentration of 1000 ppm of BIOBAN P-1487 is normally sufficient to control gross microbial contamination of freshly diluted fluids for a period of several weeks at ambient temperatures. The degree of control is influenced by the composition of the fluid, the pH, the conditions of use, and other factors. Under conditions of severe microbial contamination, a concentration of BIOBAN P-1487 as high as 3000 ppm may be required temporarily.

**Maintenance dosage.** Periodic addition of BIOBAN P-1487 to the fluid will extend its activity in controlling gross microbial contamination after the initial charge. Additions of 100 ppm to 200 ppm of BIOBAN P-1487 at weekly intervals usually are recommended.

**Note.** Transitory eye irritation can occur from exposure to vapors produced during the use of fluids containing BIOBAN P-1487. Should eye irritation occur, further exposure should be prevented by vacating the area or by using protective goggles.

DISINFECTANT LIQUID,  
TOXIC N.C.S.  
(4-(2-NITROBUTYL) MORPHOLINE)  
UN3142

Apply Toxic PG III S label.

8.7.8

**FOR USE IN HYDROCARBON RESERVATION**

To control the growth of problem microorganisms associated with the fuel.

In general use. Add BIOBAN-P-1487 to storage tanks or fuel tanks for control of microbial growth in diesel oil, fuel oil, gasoline, or kerosene. Treatment may be performed by slug dosage or by intermittent metering to attain a concentration of 135-1000 ppm of BIOBAN P-1487.

For packages less than 1 gallon, refer to the chart below:

**TREATMENT RATIOS (IN OUNCES)**

BIOBAN P-1487 Dose	Shock Treatment	PPM in Fuel	Maintenance Treatment	PPM in Fuel
1 Ounce	20 Gallons	388	55 Gallons	142
16 ounces	320 Gallons	390	880 Gallons	142
96 Ounces	2000 Gallons	375	5280 Gallons	142

For storage above water. Add 1 gallon of BIOBAN P-1487 to each 1000 gallons of water in the bulk storage system to achieve a concentration of approximately 1000ppm. To facilitate mixing, dissolve each gallon of BIOBAN P-1487 in 100 gallons of water and add this solution directly to the water phase in the tank with minimal agitation.

For storage in tanks without intentional water. Add 0.125-1 gallon of BIOBAN P-1487 directly to each 1000 gallons of hydrocarbon in the system to obtain a concentration of approximately 135-1000 ppm.

In a fuel-treatment pre-mix. BIOBAN P-1487 may be mixed with other fuel additive for addition to fuel. The end user must add sufficient BIOBAN P-1487 to the pre-mix to provide 135-1000 ppm of BIOBAN P-1487 in the treated fuel.

**FOR USE IN ADHESIVE AND INDUSTRIAL EMULSIONS (NON-FOOD USE)**

For control of microbial contamination in resin, latex or other water based emulsions, asphalt emulsions or to inhibit the growth of microorganisms in adhesives, add 0.025-0.1% (250-1000 ppm) BIOBAN P-1487. The addition of BIOBAN P-1487 should be made as a final step in the manufacturing process, after any heating and when the product has cooled to below 100° F.

**FOR USE IN INKS (NON-FOOD USE)**

To inhibit the growth of microorganisms during storage or use of use of water-based inks.

In can preservation. Add BIOBAN P-1487 in the final step of the manufacturing process, after any heating and when the product has cooled to below 110° F. BIOBAN P-1487 should be dosed at 250-1000 ppm based on the final formulation volume. BIOBAN P-1487 may be added press side at a concentration of 250-1000 ppm.

**Not Approved for Use in California**

**FOR USE IN PAINT SPRAY BOOTH WASH WATER**

BIOBAN P-1487 is used to control the growth of microorganisms in paint spray booth wash waters. Add tankside and circulate through the system to mix thoroughly. Concentrations of 250-1000 ppm BIOBAN P-1487 should be attained. One gallon of BIOBAN P-1487 to each 1000 gallons of wash water will achieve a concentration of approximately 1000 ppm

**FIRST AID:**

1. Gently with water for 15-20 minutes. After the first five minutes, then continue rinsing eyes. Refer for treatment advice.

2. Refer immediately for treatment advice. Do not swallow. Refer by a poison control center or doctor.

3. If water for 15-20 minutes. Refer for treatment.

4. Call an ambulance, then give artificial respiration, if necessary. Refer for further treatment.

**T LINE NUMBER**

1. Involving this product, call collect (989)636-4400. Have the product or doctor or going for treatment.

2. Do not indicate the use of gastric lavage.

**DIRECTIONS FOR USE**

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**Note.** Transitory eye irritation can occur from exposure to vapors produced during the use of fluids containing BIOBAN P-1487. Should eye irritation occur, further exposure should be prevented by vacating the area or by using protective goggles.

**NET LIQUID,  
TOXIC H.C.S.  
(PROPYLENE)  
UN3142  
See label.**