

464-659

04/25/2012

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**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Office of Pesticide Programs  
Antimicrobials Division (7510C)  
1200 Pennsylvania Avenue NW  
Washington, D.C. 20460**

**NOTICE OF PESTICIDE:**

Registration  
 Reregistration  
(under FIFRA, as amended)

EPA Reg. Number:

**464-659**

Date of Issuance

**APR 25 2012**

Term of Issuance:

**Conditional**

Name of Pesticide

Product:

**BIOBAN P-1487**

Name and Address of Registrant (include ZIP Code):

**The Dow Chemical Company  
1803 Building  
Midland, MI 48674**

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

Based on your response to the 4-(2-Nitrobutyl)morpholine/100801 and Morpholine, 4,4-(2-ethyl-2-nitro-1,3-propanediyl)bis-/100802 REDs, the EPA has reregistered this product subject to the comments recorded in the succeeding paragraph. This action is taken under the authority of section 4(g) (2) of the Federal Insecticide, Fungicide and Rodenticide Acts, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. The EPA may require submission of data at any time to maintain the registration of the subject product.

**1. Make the following label changes:**

**a. The EPA Registration Number must read "464-659".**

Signature of Approving Official:

**Marshall Swindell  
Product Manager Team-33  
Regulatory Management Branch I  
Antimicrobials Division (7510P)**

Date:

**APR 25 2012**

b. Per the acute toxicity review, the text "Do not give anything by mouth to an unconscious person" must be added to the 'IF SWALLOWED' first aid statements.

c. Per the acute toxicity review, the Hazards to Humans and Domestic Animals must be revised to read:

**"DANGER**  
Corrosive. Causes irreversible eye damage. Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals."

d. A separate PPE section must be added to the label and per the acute toxicity review must read:

**"Personal Protective Equipment (PPE)**  
Mixers, loaders, applicators and other handlers must wear:  
Coveralls over short-sleeved shirt and short pants,  
Socks and Chemical-resistant footwear  
Goggles and face shield, and  
Chemical-resistant gloves made of barrier laminate, butyl rubber, neoprene rubber, polyvinyl chloride or viton."

e. Per the acute toxicity review, the following User Safety Recommendations must be added to the label and should be placed in a box:

**"User Safety Recommendations**

Wash hands before, eating, drinking, chewing gum, using tobacco, or using the toilet.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing."

f. Per the product chemistry review dated November 1, 2011, the following revisions are needed to the storage and disposal section of the label:

- Add "Do not contaminate water, food or feed by storage and disposal."
- Add the heading "Pesticide Storage" and the appropriate text.

2. For additional labeling clarity and consistency, please refer to the enclosed EPA reviews.

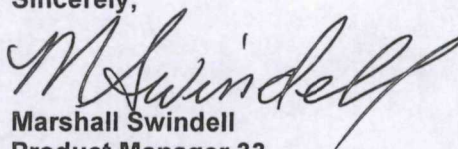
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EPA Registration No. 464-659

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec.6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Submit two (2) copies of the revised labeling bearing the labeling revisions listed above. A stamped copy of the label is enclosed for your records.

If you have questions concerning this matter, please contact me at (703) 308-6341 or by email at [swindell.marshall@epa.gov](mailto:swindell.marshall@epa.gov) or Martha L. Terry at (703) 308-6217 or by email at [terry.martha@epa.gov](mailto:terry.martha@epa.gov).

Sincerely,



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

Enclosures

# BIOBAN™ P-1487 ANTIMICROBIAL AGENT

**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. Wear a long-sleeve shirt, long pants, shoes, socks and chemical resistant gloves. Avoid breathing vapor or mist. Avoid contamination of food. Do not take internally. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and aquatic organisms. 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**

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinseate 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:**

**Nonrefillable Container:** Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or, by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Alternate paragraph for 1 gallon or smaller containers:**

**Nonrefillable Container:** Do not use or refill this container. Offer for recycling if available.


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 the normal conditions of use. THE WARRANTIES MADE IN THIS PARAGRAPH ARE SELLER'S SOLE WARRANTIES AND ARE MADE EXPRESSLY IN LIEU OF AND EXCLUDE ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER EXPRESS OR IMPLIED REPRESENTATIONS AND WARRANTIES.

Active Ingredient(s):  
4-(2-nitrobutyl) morpholine ..... 81.0% by wt  
4,4-(2-ethyl-2-nitrotrimethylene) dimorpholine ..... 5.0% by wt  
Inert Ingredients: ..... 14.0% by wt  
Total ..... 100.0%

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 30 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<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>
<b>IF ON SKIN:</b>	<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>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>Call a poison control center or doctor for further treatment.</li> </ul>
<b>HOT LINE NUMBER</b>	
<p><b>IN CASE OF AN EMERGENCY</b> 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.</p>	

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

Produced for:  
  
**The Dow Chemical Company**  
Midland, Michigan 48674 U.S.A.  
(989)636-4400

E.P.A. Registration No. 464-659  
E.P.A. Est. XXXX-XX-X

**ACCEPTED**  
With COMMENTS  
EPA Letter Dated:

**NET WT: XXX lb / XXX kg**  
**NET CONTENTS: XXX gallons**  
**LOT NO:**

APR 25 2012

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 464-659

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its 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 on 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 this specific formulations to ensure that the concentrate does not become 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 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.

**FOR USE IN HYDROCARBON PRESERVATION**

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 maintain a concentration of 135-1000 ppm of BIOBAN P-1487. For Packages less than 1 gallon, refer to the chart below.

BIOBAN P-1487 Dose	Shock Treatment	PPM in Fuel (Approx)	Maintenance Dose	PPM in Fuel (Approx)
1 ounce	20 gallons	390	55 gallons	142
16 ounces	320 gallons	390	880 gallons	142
80 ounces	1600 gallons	390	4400 gallons	142
128 ounces (1 gallon)	2500 gallons	400	7000 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 1000 ppm. 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.

*Optional wording for use in diesel fuel applications only:*  
This diesel fuel additive complies with the Federal low sulfur content requirements for use in diesel motor vehicles and nonroad engines.

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