



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

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Ms. Abigail Trueblood
Regulatory Specialist for,
The Dow Chemical Company
1803 Building
Midland, MI 48674

JUL 19 2007

Mail to: Attn: Abigail Trueblood
The Dow Chemical Company
1500 East Lake Cook Road
Buffalo Grove, IL 60089

Subject: BioBan P-1487
EPA Registration Number 464-659
Your Amendment Dated April 11th, 2007
EPA Received Date April 25th, 2007

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, FIFRA, as amended, to delete the following use patterns, adhesives, inks(non-food use) and paint spray booth wash water, is acceptable.

A stamped copy of the labeling is enclosed for your records.

If you have any questions concerning this letter, please contact Karen M. Leavy at (703)-308-6237.

Sincerely,

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

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.

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

Produced for:



THE DOW CHEMICAL COMPANY

Midland, Michigan 48674 U.S.A.

(989)636-4400

* Trademark of THE DOW CHEMICAL COMPANY

77117-331/2003-1749 Active

IF IN EYES:	<ul style="list-style-type: none"> • Hold eyes open and rinse slowly and gently with water for at least 15 minutes. Remove contact lenses, if present, after the first rinsing. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	<ul style="list-style-type: none"> • Call a poison control center or doctor 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.
IF ON SKIN:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for at least 15 minutes. • Call a poison control center or doctor for treatment advice.
IF INHALED:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or ambulance. If breathing, give oxygen if available. • Call a poison control center or doctor for treatment advice.

HOT

IN CASE OF AN EMERGENCY endangering life or property, call 911 or call the number on this container or label with you when calling a poison control center.

NOTE TO PHYSICIAN: Probable mucosal damage may occur.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, or other waters unless in accordance with the requirements of the 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 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 the 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.

BIOBAN P-1487™

81% by wt
5% by wt
14% by wt
100%

CHILDREN

ITS
ic Animals
IMAGE
CAUSE

IED
Nothing
Goggles Or
ien
handling
oid
ke

ANY

ANY

FIRST AID:	
IF IN EYES:	<ul style="list-style-type: none"> • Hold eyes open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first five minutes, then continue rinsing eyes. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	<ul style="list-style-type: none"> • 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 by a poison control center or doctor.
IF ON SKIN:	<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.
IF INHALED:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable mouth to mouth, if possible. • Call a poison control center or doctor for further treatment.
HOT LINE NUMBER	
<p>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.</p>	
<p>NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.</p>	

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 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.

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.

FOR USE IN I
To control the
with the fuel.

In general use,
for control of m
kerosene. Treat
intermittent met
BIOBAN P-148

For packages
TRI

BIOBAN P-1487
Dose
1 Ounce
16 ounces
96 Ounces

For storage abo
1000 gallons of v
concentration of
dissolve each gall
add this solution
agitation.

For storage in ta
of BIOBAN P-14
the system to obta

In a fuel-treatme
other fuel additive
sufficient BIOBA
of BIOBAN P-148

ACCEPTED
 JUL 19 2007
 Under the Federal Insecticide, Fungicide, and
 Rodenticide, Act as amended, for the
 pesticide, registered under
 EPA Reg. No. 464-659

FIRST AID:

Flush with water for 15-20 minutes. During the first five minutes, then continue rinsing eyes. Get medical treatment advice.

Get medical treatment advice. Do not swallow. Call your local poison control center or doctor.

Flush for 15-20 minutes. Get medical treatment.

Get medical attention, then give artificial respiration, if necessary. Get further treatment.

PHONE NUMBER

When buying this product, call collect (989)636-4400. Have the product name and doctor or going for treatment.

Indicate the use of gastric lavage.

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 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.

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.

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 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	396	55 Gallons	142
16 ounces	320 Gallons	396	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.

ACCEPTED

JUL 19 2007

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

