

464-685

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OCT 08 2003

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

Attention: Allen F. Bollmeier
Regulatory Specialist

Subject: BIOBAN BP-30
EPA Registration No. 464-685
Amendment Dated August 20, 2003

The amendment, submitted in connection with registration under the FIFRA sec. 3(c)(7)(A), to add two additional uses: Water based Agricultural Pesticide Concentrates and Surfactants and Raw Materials to the label, is acceptable, provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA Sec.3(c)(5) and sec. 4 when the Agency requires all registrants of similar products to submit such data.
2. Submit two (2) copies of final printed labeling before you release the product for shipment.

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.

A copy of the revised draft labeling is enclosed for your records.

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

Sincerely,

Marshall Swindell
Marshall Swindell
Product Manager 33
Regulatory Management Branch 1
Antimicrobial Division (7510C)

Enclosure		CONCURRENCES					
SYMBOL							
SURNAME							
DATE							

BIOBAN™ BP-30

Active ingredient(s)
2-Bromo-2-nitropropane-1,3-diol . . . 30.0%
Inert ingredient(s) 70.0%
Total 100.0%

E.P.A. Registration No. 484-885
E.P.A. Est. 73721-KOR-891

KEEP OUT OF REACH OF CHILDREN

DANGER

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CORROSIVE • CAUSES IRREVERSIBLE EYE DAMAGE AND SKIN BURNS • HARMFUL IF SWALLOWED, ABSORBED THROUGH THE SKIN, OR INHALED

Do Not Breathe Vapor or Spray Mist • Do Not Get in Eyes, On Skin, Or On Clothing • Wear Goggles Or Face Shield, Protective Clothing, and Rubber (or chemical resistant) Gloves • Wash Thoroughly With Soap and Water After Handling and Before Eating, Drinking, or Using Tobacco • Remove Contaminated Clothing and Wash Clothing Before Reuse • Prolonged or Frequently Repeated Skin Contact May Cause Allergic Reactions in Some Individuals



THE DOW CHEMICAL COMPANY
Midland, Michigan 48674 U.S.A.
1-800-250-CHEM

* Trademark of THE DOW CHEMICAL COMPANY
Made in Korea

FIRST AID:

If in eyes: 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: Call a poison control center or doctor immediately or 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.

If on skin: 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: Move person to fresh air. If person is not breathing, Call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth, if possible. Call a poison control center or doctor for further treatment. Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. 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. Do not contaminate water by cleaning of equipment or disposal of waste.

IN CASE OF AN EMERGENCY endangering life or property involving this product, call collect 888-638-4466.

STORAGE AND DISPOSAL

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

Storage: Keep away from heat.

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 of the nearest EPA Regional Office for guidance.

Container Disposal: Empty residue into application equipment. Triple rinse (or equivalent) then offer container for recycling or reconditioning or puncture. Dispose of container in a sanitary landfill, or by incineration, if allowed by state and local authorities. If burned, stay out of smoke.

DIRECTIONS FOR USE

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

GENERAL USE DIRECTIONS

To control the growth of algae-forming, spore-forming and corrosion inducing bacteria and algae in industrial applications. Not for control of algae in the State of California.

BIOBAN BP-30 can be dosed directly either by open pouring or by metered pump. Do not apply by open pouring of liquid to cooling water systems; a metering pump system is required for this use and application method.

For in-can product preservation BIOBAN BP-30 is best added to any liquid phase as late as possible during the manufacturing process and after any heating steps, or when the product has cooled below 40°C. Ensure good mixing and even distribution throughout the product.

Applicators and other handlers must wear long-sleeve shirt and long pants, socks plus shoes, and chemical resistant gloves. Do not apply this product in a way that will contact workers or other persons. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If there are no such instructions for certain PPE, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. If pesticide gets inside clothing remove clothing immediately, wash thoroughly, and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before reusing. As soon as possible, wash thoroughly and change into clean clothing.

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS AND EVAPORATIVE CONDENSERS

BIOBAN BP-30 may be dosed directly into the sump or basin or it may be added by a suitable chemical pump. Where metering pumps are used, these must be set to deliver the required dose within 1 hour. The dosing point should be located close to the outlet from the basin to ensure rapid dispersal around the system.

BIOBAN BP-30 may be dosed once or twice weekly at 70-200 milliliters water or 0.02-0.2 pt/1000 gallons (25 to 200 ppm active ingredient) depending on the condition of the tower, the quality of raw water input and the amount of bleed off. Where contamination is heavy, more frequent dosing may be required. In heavily fouled systems, the tower should be cleaned and cleaned before treating with BIOBAN BP-30.

INDUSTRIAL PROCESS WATER

For use in closed circuit machine cooling (injection molding, etc.) stored (non-potable) water. To restore the biofouling of pipework, heat exchangers, condenser tubes and minimize substantially produced corrosion. Shock dosing into the complete of the process water system is preferred. Closed circuit systems require less frequent dosing.

In open systems shock dosing should be carried out on a once weekly to once monthly basis depending on the degree of contamination.

Initially dose at 140 milliliters water, or 1.1 pt/1000 gallons (50 ppm active ingredient). Where necessary, dosing can be lowered to a minimum level equivalent to 50 ppm active ingredient. For best treatment or daily routine maintenance use BIOBAN BP-30 at 100 ppm active ingredient, and a contact time of at least one hour.

OIL AND GAS FLUIDS

This product may be used in terrestrial and off-shore drilling muds and power fluids.

Use for in-can preservation of a wide range of gas and field liquids including, enhanced oil recovery, injection, well systems, drilling, wellbore and completion fluids.

Add BIOBAN BP-30 at 140-200 milliliters water (1.1-1.2 pt/1000 gallons, or 0.027-0.265 pint/water) which is equivalent to 50-100 ppm active ingredient.

For well systems shock add BIOBAN BP-30 at 70-200 milliliters water or 0.02-0.2 pt/1000 gallons (25-200 ppm active ingredient).

OIL PROCESS WATERS

For use in oil and gas well injection and formation waters.

Inject BIOBAN BP-30 as a slug dose directly into well and formation waters at 70-200 milliliters water; 0.02-0.2 pt/1000 gallons or 0.025-0.250 pint/water, 25-200 ppm active ingredient. A slug dose should be applied once every year to once per month depending on the severity of contamination.

OIL AND GAS PIPELINE AND TANK MAINTENANCE

For use in water filllines in crude and refined hydrocarbon storage tanks, piping and transportation systems.

Inject BIOBAN BP-30 directly into the water bottom or pipeline, or at the hydrocarbon phase. Treat once daily for pipeline maintenance to once every one or two months for both storage and transportation systems. Apply BIOBAN BP-30 at 70-200 milliliters water or 0.02-0.2 pt/1000 gallons of aqueous phase (25-200 ppm active ingredient). Higher levels may be added when dosing the hydrocarbon phase which will result in longer term protection by gradual diffusion into the water.

ADHESIVES

For in-can preservation of water-based adhesives and resinous lacquer/primers and other similar dispersions add 140-200 pt or 0.3-1.5 pt BIOBAN BP-30 per 1000 lb total formulation weight.

METALWORKING FLUIDS
For use in soluble oils, semi-synthetic and synthetic fluids. Add directly to the sump (with agitation) and allow the system to circulate for about one hour before shutdown.

In diluted fluids add 700-2000 milliliters water or 0.7-2.0 gallon/1000 gallons (250-2000 ppm active) to control microbial growth. For maintenance add 200-1000 milliliters water or 0.2-1.1 gallon/1000 gallons (100-400 ppm active ingredient) on a weekly basis preferably the changes before shutdown. The frequency may be increased where significant contamination is identified.

NET WT: 226.8 kg/500 lb

LOT

64061-00182222-620/2001-1716 Adhs

ACCEPTED
with COMMENTS
in EPA Letter Dated:

OCT 08 2003

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No.
464-685