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48301-39

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
 Office of Pesticide Programs  
 Registration Division (H7505C)  
 401 "M" St., S.W.  
 Washington, D.C. 20460

EPA Reg. Number:  
 48301-39

Date of Issuance:  
 JUL 21 1998

**NOTICE OF PESTICIDE:**  
 Registration  
 Reregistration

Term of Issuance: **Until Reregistration**

(under FIFRA, as amended)

Name of Pesticide Product:  
**BIOBAN<sup>(R)</sup> BNS 25%-BA Industrial Preservative**

Name and Address of Registrant (include ZIP Code):

**Angus Chemical Company  
 1500 E. Lake Cook Road  
 Buffalo Grove, IL 60089**

**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/reregistration 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.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA sec. 3(c)(5) or FIFRA sec. 4 when the Agency requires all registrants of similar products to submit such data.

2. Make the labeling changes listed below before you release the product for shipment:

Signature of Approving Official:

**Adam Heyward, Product Manager (34)  
 Regulatory Management Branch II  
 Antimicrobials Division (7510W)**

Date:

JUL 21 1998

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- a. Add the phrase, "EPA Registration No. 48301-39".
- b. Change the signal word "Danger" to "Warning"
- c. Revise the precautionary statement to read:

"May be fatal if inhaled. Causes substantial but temporary eye injury and skin irritation. Harmful if swallowed or adsorbed through skin. Do not breathe vapor or mist. Wear goggles or face shield. Wear a MSHA/NIOSH approved mask or respirator. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Do not get in eyes, on skin or on clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

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 stamped copy of the label is enclosed for your records.

Sincerely,

*for Adam Heyward*

Adam Heyward  
Product Manager 34  
Regulatory Management Branch II  
Antimicrobials Division (7510W)

Enclosure

# BIOBAN® BNS 25%-BA

## INDUSTRIAL PRESERVATIVE

R-10713

ACTIVE INGREDIENT:	
β-Bromo-β-Nitrostyrene	25.0%
INERT INGREDIENTS:	75.0%
TOTAL	100.0%

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## DANGER

Corrosive: Do not get in eyes, on skin, or on clothing. Harmful or fatal if swallowed or absorbed through skin. Causes eye burns and skin irritation. Avoid breathing vapor or mist. Use with adequate ventilation. Wear rubber gloves and goggles or face shield when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

#### 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.

#### PHYSICAL AND CHEMICAL HAZARDS

Do not use, pour or store near heat or open flame.

ANGUS Chemical Company assumes no responsibility when this product is used in accordance with the instructions and information contained on this label.

ACCEPTED with COMMENTS  
in EPA Letter Dated  
JUL 21 1998

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

48301-39

### KEEP OUT OF REACH OF CHILDREN!

## DANGER!

#### STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Drink plenty of water. Do not induce vomiting. Immediately contact physician.

IF ON SKIN: Wash thoroughly with soap and water after handling. Immediately contact physician.

IF IN EYES: Flush eyes immediately with plenty of clear water for at least 15 minutes. Immediately contact physician.

IF ON CLOTHING: Remove contaminated clothing and wash before reuse.

#### NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage. Measures against cardiac shock, respiratory depression and convulsions may be needed.

#### SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONS AND OTHER INFORMATION

E.P.A. Reg. No. 48301-39

E.P.A. Est. No. 33753-EN

Printed in U.S.A.

# ANGUS®

ANGUS Chemical Company  
1500 E. Lake Cook Road  
Buffalo Grove, IL 60089 U.S.A.

### DIRECTIONS FOR USE

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

#### FOR MANUFACTURING OR REFORMULATION USE

Only For Formulation into An Industrial Preservative For (1) The Following Use(s): Secondary and Tertiary Oil Recovery Systems, Oil Recovery Drilling Muds and Packer Fluids, Latex Emulsions, Textile Lubricant Emulsions, and Dye Dispersions; (2) Uses For Which USEPA Has Accepted The Required Data and/or Citations of Data That The Formulator Has Submitted in Support of Registration; and (3) Uses For Experimental Purposes That Are In Compliance with USEPA Requirements.

#### For Microbial Growth Control in Latex Emulsions, Textile Lubricant Emulsions and Dye Dispersions

Bioban BNS 25%-BA will effectively control microbial growth of bacteria and fungi in aqueous systems. It should be used at a level of 0.10% (1000ppm) by weight of the system to be protected. It can be used directly as is or diluted with a co-solvent such as acetone, propylene glycol or isopropyl myristate. It is not inactivated by the presence of nonionic surfactants or high concentration of oils.

#### Packer Fluids and Drilling Muds

Bioban BNS 25%-BA should be applied directly to packer fluids or drilling muds at a level of 50 to 500 lb per 1000 barrels or 80 to 800 parts per million, depending upon the severity of the problem.

#### For Secondary and Tertiary Oil Recovery Systems

For controlling slime-forming and sulfide-producing bacteria, algae and fungi in oil field water, polymer or mycelar floods, water disposal systems and/or other oil field water systems, drilling muds and packer muds.

Bioban BNS 25%-BA should be added to the systems as needed either continuously or intermittently, depending upon the severity of the problem. Daily fouled systems must be cleaned before treatment is begun.

#### Intermittent Method of Usage

For noticeably fouled systems, the initial dosage should be 50 to 100 lb per 1000 barrels of water or 150 to 300 parts per million intermittently every 4 to 8 hours per day and from 1 to 4 times per week until control is obtained. After that, use 10 to 50 lb to 1000 barrels of water or 30-300 parts per million every 2 to 3 days to maintain control.

#### Continuous Feed Method

Use the same levels as above initially for especially fouled systems, then reduce the level to continuously feed into the systems 3 to 50 lb per 1000 barrels of water or 10 to 150 parts per million.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty containers.

Pesticide or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides. Triple rinse the container or equipment before sending to drum conditioner or destroying by perforation or crushing. Consult Federal, state or local authorities for approved alternative procedures.