

MAY 30 1989

Angus Chemical Company
2211 Sanders Road
Northbrook, IL 60002

Attention: Allen Bollmeier
Regulatory Affairs

Gentlemen:

Subject: Bronopol Preservative
EPA Registration No. 48301-18
Your Submission Dated October 27, 1988

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) 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 bearing the amended labeling:
 - a. Delete the exclamation point.
 - b. Delete the word "milk."
 - c. Delete the statement "Measures against circulatory shock, respiratory depression and convulsion may be needed."

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CONCURRENCES							
SYMBOL							
SURNAME							
DATE							


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Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

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

If you have any questions concerning this letter, contact Valdis Goncarous at (703) 557-3663.

Sincerely yours,

John H. Lee 
Product Manager (31)
Antimicrobial Program Branch
Registration Division (H7505C)

Enclosure

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DRAFT LABEL

**BRONOPOL
PRESERVATIVE**

Active Ingredient:		
2-Bromo-2-nitropropane-1,3-diol		95%
Inert Ingredients:		5%
	TOTAL	100%

PRECAUTIONARY STATEMENTS

**Hazards to Humans and Domestic Animals
Keep Out of Reach of Children
DANGER!
CORROSIVE, CAUSES EYE AND SKIN DAMAGE
MAY BE FATAL IF SWALLOWED**

Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wear goggles or face shield and rubber gloves when handling.

Statement of Practical Treatment

If in eye(s), immediately flush eye(s) with plenty of water for at least 15 minutes. See a physician. If swallowed, do not induce vomiting; drink milk, egg whites, gelatin solution. If these are not available, drink large amounts of water. Call a physician. If contact with skin; immediately flush skin with water for 15 minutes. Call a physician.

Note to Physician

Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression, and convulsion may be needed. See side panel for additional precautionary statements.

Environmental Hazards

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters, unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the Environmental Protection Agency.

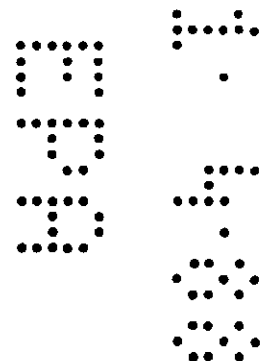
EPA Reg. No. 48301-18
EPA Est. No. 33753-EN-01

ANGUS Chemical Company
2211 Sanders Road
Northbrook, IL 60062

ACCEPTED
with COMMENTS
in EPA Lab

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Storage and Disposal

Pesticide Disposal

Do not contaminate water, food, or feed by storage or disposal. Keep away from heat. 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

Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Triple rinse (or equivalent). Then dispose of drum and liner by incineration or burial in a sanitary landfill, 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 its labeling.

USE IN METALWORKING FLUIDS

Bronopol is recommended for use in soluble oils, semi-synthetic, and synthetic fluids. It should be added directly to the sump (with agitation) or pre-dissolved in water and added as a solution. A dose of 250 ppm is recommended for initial treatment, higher levels up to 1,000 ppm, but no greater for fouled systems. After addition of Bronopol, the system should be circulated for about one hour before shut-down.

In Diluted Fluids:

A concentration of 250 to 1,000 ppm of Bronopol in the fluid is sufficient to control gross microbial growth. For example, add 0.5 lb. of Bronopol to 1,000 lb. of fluid to obtain a dose level of 500 ppm in the fluid.

Maintenance Dosage:

Add 100-200 ppm of Bronopol to maintain control of the system.

In Concentrates:

Bronopol may be incorporated in metalworking fluid concentrate by the manufacturer. However, the manufacturer should determine the storage stability of Bronopol in the concentrate to ensure that incompatibility will not affect its efficacy. The amount to be incorporated will depend on the dilution factor recommended for the concentration.

ACCEPTED
with conditions
in 1989

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USE IN ADHESIVES

For control of microbial contamination, add 0.1-0.5 lb. of Bronopol per 100 lb. total formulation weight. The addition is best accomplished by pre-dissolving the Bronopol in any water to be incorporated into the formulation.

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