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FEB 03 1987

ANGUS Chemical Company
2211 Sanders Road
Northbrook, IL 60062

Attention: Allen F. Bollmeirer, Jr.

Gentlemen:

Subject: BIOBAN CS-1135 Preservative
EPA Registration No. 48301-8
Your Submission Dated February 20, 1986

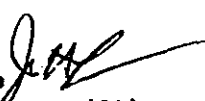
The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

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.
3. Submit five (5) copies of your 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 section 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 yours,

John H. Lee 
Product Manager (31)
Disinfectants Branch
Registration Division (TS-767C)

Enclosure

90170:Lee:L-14:KENCO:12/17/86:12/26/86:hjp:JH

CONCURRENCES

SYMBOL ▶								
SURNAME ▶								
DATE ▶								

BIOBAN® CS-1135

PRESERVATIVE

ACTIVE INGREDIENTS:

4,4-Dimethyloxazolidine

3,4,4-Trimethyloxazolidine

INERT INGREDIENTS:

with COMMENTS

In EPA Letter Dated:

48301-8

FEB 08 1987

74.7%

2.5%

22.8%

TOTAL 100%

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER!

CAUSES EYE DAMAGE AND SKIN IRRITATION.
HARMFUL IF INHALED OR SWALLOWED.
COMBUSTIBLE LIQUID.

Do not get in eyes, on skin, on clothing. 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. Do not use or store near heat or open flame.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. 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 EPA. Do not contaminate water by cleaning of equipment or disposal of wastes.

ANGUS Chemical Company assumes no responsibility when this product is not used in accordance with the instructions and information contained on this label.

KEEP OUT OF REACH OF CHILDREN

DANGER!

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush with plenty of water for at least 15 minutes. Call a physician.

IF ON SKIN: Wash thoroughly with soap and water. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.

IF SWALLOWED: Drink promptly a large quantity of milk, egg whites, or gelatin solution; if these are not available, drink large quantities of water; avoid alcohol. Call a physician immediately.

NOTE TO PHYSICIAN

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

SEE SIDE PANEL FOR ADDITIONAL
PRECAUTIONS AND OTHER INFORMATION

EPA Reg. No. 48301-8

EPA Est. No. 48301-LA-01

A-12B

Printed in U.S.A.

ANGUS®

ANGUS Chemical Company
2211 Sanders Road
Northbrook, IL 60062 U.S.A.

DIRECTIONS FOR USE

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

PESTICIDE DISPOSAL

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mix, or empty containers may be dangerous. If these wastes cannot be disposed of by use according to label directions, contact your State Pesticide Control Agency, or the Hazardous Waste representative at your nearest EPA Regional Office.

CONTAINER DISPOSAL

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or dispose of by other procedures approved by state and local authorities.

USE IN PAINTS AND EMULSIONS

BIOBAN CS-1135 is effective as a preservative in water-containing formulations at a concentration of 0.1 to 0.5 lb per 100 lb total formulation.

BIOBAN CS-1135 may be added at any point in the manufacturing process. The recommended concentration is 0.1 to 0.2 lb per 100 lb of the formulation. The recommended dosage is 0.2 lb per 100 lb of the formulation.

USE IN OILFIELD WATER SYSTEMS

For controlling aerobic slime-forming bacteria (*Pseudomonas* spp.) and reducing bacteria (*Desulfovibrio desulfuricans*) in oilfield water systems, BIOBAN CS-1135 depending on the severity of the contamination, free water knockouts before or after the injection pumps and

Continuous-feed method: If the system is noticeably fouled, inject BIOBAN CS-1135 (0.43-12.8 gal per 2000 barrels of water) continuously as recommended.

Intermittent or slug method: If the system is noticeably fouled, inject BIOBAN CS-1135 (1.7-12.8 gal per 2000 barrels of water) intermittently depending on the severity of contamination.

USE IN METALWORKING FLUIDS

In Diluted Fluids: A concentration of 1000-2000 ppm BIOBAN CS-1135 in 1.0 to 2.0 pints of BIOBAN CS-1135 per each 100 gallons of fluid.

Maintenance Dosage: Add 250-500 ppm BIOBAN CS-1135 to the fluid. A solution of 8 ounces (1 cup) of BIOBAN CS-1135 to each 100 gallons of fluid.

In concentrates, BIOBAN CS-1135 may be incorporated in metalworking fluids normally will be stable in concentrates as long as the pH is maintained. It may be carried out by the manufacturer on his specific formulation. BIOBAN CS-1135 is incompatible with BIOBAN CS-1135 stability. The amount to be added to be used when the concentrate is diluted for use. For effective use, 100 ppm of BIOBAN CS-1135 in the diluted fluid is suggested.

FOR USE IN PRESERVING DRILLING MUDS

Determine the volume of BIOBAN CS-1135 necessary to provide the required concentration in the drilling mud system, workover and completion fluid. One barrel of drilling mud provides this concentration.

As the system circulates, add the BIOBAN CS-1135 in a thin stream. Add additional BIOBAN CS-1135 to the system to maintain the concentration.