

US EPA ARCHIVE DOCUMENT

21 SEP 1988

Bionox Corporation
6890 Lome del Bribon
Tucson, AZ 85715

Attention: Dr. Robert Acker

Gentlemen:

Subject: Bionox
EPA Registration No. 46506-1
Your Amendments Dated April 13 and July 27, 1988

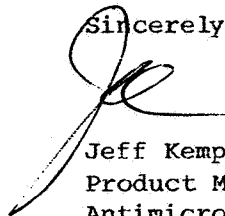
The amendments referred to above, submitted in connection with registration under Federal Insecticide, Fungicide, and Rodenticide Act section 3(c)(7)(A) (FIFRA), are acceptable provided that you:

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. 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,



Jeff Kempter
Product Manager (32)
Antimicrobial Program Branch
Registration Division (TS-767C)

Enclosure

53638:I:Pringle:K-10:KENCO:9/19/88:10/31/88:CT:PSR:VO:CL

CONCURRENCES

SYMBOL	TS-767C							
SURNAME	Pringle							
DATE	9/20							

FRONT PANEL - BIONOX - SOLUTION A BIONOX

SPORICIDAL
VIRUCIDAL*
TUBERCULOCIDAL

BACTERICIDAL
FUNGICIDAL
PSEUDOMONICIDAL

DISINFECTANT AND STERILANT FOR USE IN HOSPITALS, NURSING HOMES, AMBULANCES,
VETERINARY HOSPITALS, AND OTHER MEDICAL INSTITUTIONS.

SOLUTION A

ACTIVE INGREDIENT:
SODIUM HYPOCHLORITE (2857 PPM AVAILABLE CHLORINE) 0.6%
INERT INGREDIENTS 99.4%

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS
HAZARDOUS TO HUMAN AND DOMESTIC ANIMALS

STATEMENT OF PRACTICAL TREATMENT (FIRST AID)

CAUSES EYE IRRITATION. AVOID CONTACT WITH EYES. WASH AFTER HANDLING. IN CASE OF CONTACT FLUSH WITH PLENTY OF WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS IF CONTACT WITH SKIN OCCURS, WASH WITH PLENTY OF SOAP AND WATER.

BIONOX MUST CONTACT MICROORGANISMS TO BE EFFECTIVE. SURFACES GROSSLY SOILED MUST HAVE SUCH SOIL REMOVED PRIOR TO DISINFECTION / STERILIZATION. THOROUGHLY WASH AND RINSE THE SURFACE(S). THEN, THOROUGHLY WET THE SURFACE(S) WITH MIXED BIONOX SOLUTION AND ALLOW TO REMAIN FOR NOT LESS THAN 10 MINUTES FOR DISINFECTION AND NOT LESS THAN 20 MINUTES FOR STERILIZATION AT 20°C OR HIGHER. DISINFECTED SURFACES MAY BE RINSED IF DESIRED.

THIS PRODUCT HAS BEEN SHOWN TO KILL SALMONELLA CHOLERAESUIS, STAPHYLOCOCCUS AUREUS, PSEUDOMONAS AERUGINOSA, TRICHOPHYTON MENTAGROPHYTES IN 10 MINUTES AT 20°C, BACILLUS SUBTILIS AND CLOSTRIDIUM SPOROGENES IN 20 MINUTES AT 20°C AND THE FOLLOWING VIRUSES* AT 2 MINUTES AT 20°C: HERPES VIRUS 1&2, POLIOVIRUS 1&2, INFLUENZA A2 (HONG KONG), ADENOVIRUS-2, COXSACKIE VIRUS B5a, VACCINIA VIRUS, HEPATITIS VIRUS, CYTOMEGALOVIRUS, ROTAVIRUS SA-11, AND RESPIRATORY SYNCYTIAL VIRUS.

THIS PRODUCT HAS BEEN SHOWN TO BE EFFECTIVE AS A SEED DISINFECTANT FOR THE CONTROL OF SUCH FUNGAL PATHOGENS/CONTAMINANTS AS: ASPERGILLUS SPECIES, FUSARIUM SPECIES (ESP. MONILIOFORME), HORMODENDRUM, PENICILLIUM, AND RHIZOPUS SPECIES. SEED GRAINS GENERALLY TREATED: CORN, MUNG BEAN, RICE, SORGHUM, SOYBEANS, WHEAT. ALFALFA, CLOVER, VETCH, CABBAGE, LUPINE, BARLEY, OATS, RYE, COTTON, PEANUTS, PINE, PEA, SUNFLOWER, SAFFLOWER, CELERY, ASPARAGUS, EGGPLANT, CAULIFLOWER, CUCUMBER, PEPPER, SUGAR BEET, TOMATO, WATERMELON, POPCORN, TOBACCO, CARROT. SEEDS MUST BE THOROUGHLY WET FOR 10 MINUTES AT 20°C.

EPA REG. NO.: 46506-1
NET CONTENTS: 1 GALLON

EPA EST NO.: 46781-C0-1

METREX RESEARCH CORPORATION
PARKER, CO 80134

BIONOX Trademark of BIONOX CORPORATION, TUCSON, AZ 85715

(Licensed from U.S. Navy under U.S. Patent no. 3,717,580)

ACCEPTED
with COMMENTS
in EPA Letter Dated:

SEP 21 1988

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

46506-1

BACK PANEL - BIONOX - SOLUTION A

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTANT WITH ITS LABELING.

RECOMMENDED FOR RAPID DISINFECTION OR STERILIZATION OF HARD, NON-POROUS SURFACES SUCH AS: STAINLESS STEEL, CHROME, CERAMIC, WALLS, GLASS, VINYL FLOORS. BATHROOMS, AND MEDICAL INSTRUMENTATION.

RECOMMENDED FOR SEED DISINFECTION TO CONTROL FUNGAL PATHOGENS/CONTAMINANTS ON A WIDE RANGE OF VEGETABLES AND FIELD CROPS.

BIONOX IS RECOMMENDED FOR BOTH ROUTINE AND EMERGENCY CONDITIONS (I.E. WHEN A LARGE NUMBER OF SMALL ARTICLES MUST BE DISINFECTED OR STERILIZED RAPIDLY IN ORDER TO BE USED) SUCH AS WHEN NATURAL DISASTERS OCCUR OR DURING MILITARY MEDICAL ACTIVITIES. HOWEVER, IT IS NOT INTENDED FOR USE ON HUMANS.

AN IMPROVED, FAST-ACTING HYPOCHLORITE DISINFECTANT / STERILANT. WHEN USED AS DIRECTED, CORROSION IS NOT A MAJOR FACTOR. HOWEVER, DELICATE AND EXPENSIVE INSTRUMENTS SHOULD NEVER BE LEFT IN CONTACT WITH BIONOX LONGER THAN THE EXPOSURE PERIOD OF 20 MINUTES FOR STERILIZATION, AND SHOULD BE RINSED WITH STERILE WATER AND DRIED.

PHYSICAL AND CHEMICAL HAZARDS - STRONG OXIDIZING AGENT MIX ONLY ACCORDING TO LABEL DIRECTIONS. MIXING THIS PRODUCT WITH ORGANIC MATTER OR CHEMICALS SUCH AS AMMONIA, ACIDS OR DETERGENTS WILL RELEASE CHLORINE GAS.

STORAGE AND DISPOSAL

DO NOT CONTAMINATE FOOD OR FEED BY STORAGE, DISPOSAL OR CLEANING OF EQUIPMENT.

STORE IN A COOL, DRY AREA, AWAY FROM DIRECT SUNLIGHT AND HEAT. IN CASE OF SPILL, CLEAN WITH LARGE QUANTITY OF WATER. PRODUCT OR RINSATES SHOULD BE DILUTED WITH WATER AND RINSED DOWN DRAIN. DISPOSE OF CONTAINER IN TRASH. DO NOT REUSE.

BIONOX IS A MIXTURE OF TWO SOLUTIONS. DO NOT USE SEPARATELY. RAPID DISINFECTION OR STERILIZATION OCCURS ONLY BY USE OF EQUAL VOLUMES OF SOLUTIONS A AND B WHICH ARE TO BE USED WITH THE SPRAY DEVICE OBTAINABLE FROM THE MANUFACTURER. FOLLOW DEVICE OPERATING INSTRUCTIONS. SOAK SOLUTION MAY BE PREPARED BY MIXING EQUAL VOLUMES OF SOLUTION A AND SOLUTION B IN A TRAY IN WHICH CLEAN INSTRUMENTS TO BE DISINFECTED / STERILIZED HAVE BEEN PLACED.

BIONOX IS APPLIED AS A SPRAY FROM TWO CONTAINERS, A AND B. CONTAINER A IS ALWAYS FILLED WITH SOLUTION A (HYPOCHLORITE) AND CONTAINER B IS ALWAYS FILLED WITH SOLUTION B. MANUFACTURER'S DIRECTIONS FOR USE OF THE SPRAY DEVICE SHOULD BE CAREFULLY FOLLOWED.

THE MIXING OF THE TWO SOLUTIONS TAKES PLACE AS THE MIXTURE IS SPRAYED ON THE SURFACE(S) TO BE DISINFECTED / STERILIZED. AS A AND B ARE NOT MIXED UNTIL THEY REACH THE SPRAY NOZZLE, THEY MAY BE COMPLETELY EXPENDED FROM THEIR STORAGE TANKS. DO NOT USE ON FOOD CONTACT SURFACES.

MEDICAL INSTRUMENTS AND SMALLER ARTICLES EXCEPT THOSE WITH A LUMEN MAY BE TRAY DISINFECTED / STERILIZED.

SEED DISINFECTION OCCURS BEST WHEN SEEDS ARE TREATED WITH APPROXIMATELY 1419 PPM AVAILABLE CHLORINE FOR 10 MINUTES UNDER VACUUM OF APPROXIMATELY 30 IN. MERCURY, AT 20'C.

FRONT PANEL - BIONOX - SOLUTION B BIONOX

SPORICIDAL
VIRUCIDAL*
TUBERCULOCIDAL

BACTERICIDAL
FUNGICIDAL
PSEUDOMONICIDAL

DISINFECTANT AND STERILANT FOR USE IN HOSPITALS, NURSING HOMES, AMBULANCES,
VETERINARY HOSPITALS, AND OTHER MEDICAL INSTITUTIONS.

SOLUTION B

THIS SOLUTION SHOULD BE USED AS AN ACTIVATOR WITH SOLUTION A ONLY.

INERT INGREDIENTS

100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS
HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS

STATEMENT OF PRACTICAL TREATMENT (FIRST AID)

(IN CASE OF EYE IRRITATION. AVOID CONTACT WITH EYES. WASH AFTER HANDLING. IN CASE OF CONTACT FLUSH WITH PLENTY OF WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS IF CONTACT WITH SKIN OCCURS, WASH WITH PLENTY OF WATER.

BIONOX MUST CONTACT MICROORGANISMS TO BE EFFECTIVE. SURFACES GROSSLY SOILED MUST HAVE SUCH SOIL REMOVED PRIOR TO DISINFECTION / STERILIZATION. THOROUGHLY WASH AND RINSE THE SURFACE(S). THEN, THOROUGHLY WET THE SURFACE(S) WITH MIXED BIONOX SOLUTION AND ALLOW TO REMAIN FOR NOT LESS THAN 10 MINUTES FOR DISINFECTION AND NOT LESS THAN 20 MINUTES FOR STERILIZATION AT 20°C OR HIGHER. DISINFECTED SURFACES MAY BE RINSED IF DESIRED.

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EPA REG. NO. 46506-1
NET CONTENTS: 1 GALLON

EPA EST NO. 46781-CO-1

METREX RESEARCH CORPORATION
PARKER, CO 80134

BIONOX, Trademark of BIONOX CORPORATION, TUCSON, AZ 85715

(Licensed from U.S. Navy under U.S. Patent no. 3,717,580)

BACK PANEL - BIONOX - SOLUTION B

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTANT WITH ITS LABELING.

RECOMMENDED FOR RAPID DISINFECTION OR STERILIZATION OF HARD, NON-POROUS SURFACES SUCH AS: STAINLESS STEEL, CHROME, CERAMIC, WALLS, GLASS, VINYL FLOORS. BATHROOMS, AND MEDICAL INSTRUMENTATION.

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AN IMPROVED, FAST-ACTING HYPOCHLORITE DISINFECTANT / STERILANT. WHEN USED AS DIRECTED, CORROSION IS NOT A MAJOR FACTOR. HOWEVER, DELICATE AND EXPENSIVE INSTRUMENTS SHOULD NEVER BE LEFT IN CONTACT WITH BIONOX LONGER THAN THE EXPOSURE PERIOD OF 20 MINUTES FOR STERILIZATION, AND SHOULD BE RINSED WITH STERILE WATER AND DRIED.

PHYSICAL AND CHEMICAL HAZARDS - STRONG OXIDIZING AGENT

ONLY ACCORDING TO LABEL DIRECTIONS. MIXING THIS PRODUCT WITH ORGANIC MATTER OR CHEMICALS SUCH AS AMMONIA, ACIDS OR DETERGENTS WILL RELEASE CHLORINE GAS.

STORAGE AND DISPOSAL

DO NOT CONTAMINATE FOOD OR FEED BY STORAGE, DISPOSAL OR CLEANING OF EQUIPMENT.

STORE IN A COOL, DRY AREA, AWAY FROM DIRECT SUNLIGHT AND HEAT. IN CASE OF SPILL, CLEAN WITH LARGE QUANTITY OF WATER. PRODUCT OR RINSATES SHOULD BE DILUTED WITH WATER AND RINSED DOWN DRAIN. DISPOSE OF CONTAINER IN TRASH. DO NOT REUSE.

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SEED DISINFECTION OCCURS BEST WHEN SEEDS ARE TREATED WITH APPROXIMATELY 1419 PPM AVAILABLE CHLORINE FOR 10 MINUTES UNDER VACUUM OF APPROXIMATELY 30 IN. MERCURY, AT 20'C.

FRONT PANEL - AGRINOX- SOLUTION A AGRINOX

SPORICIDAL
VIRUCIDAL*
TUBERCULOCIDAL

BACTERICIDAL
FUNGICIDAL
PSEUDOMONICIDAL

DISINFECTANT AND STERILANT FOR USE IN AGRICULTURE, INCLUDING AS A SEED
DISINFECTANT AS WELL AS IN VETERINARY HOSPITALS

SOLUTION A

ACTIVE INGREDIENT:

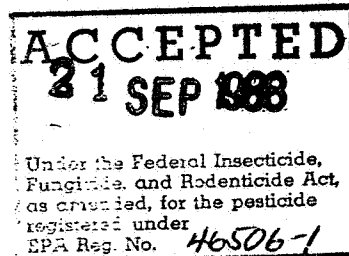
SODIUM HYPOCHLORITE (2857 PPM AVAILABLE CHLORINE) 0.6%
INERT INGREDIENTS 99.4%

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS
HAZARDOUS TO HUMAN AND DOMESTIC ANIMALS

STATEMENT OF PRACTICAL TREATMENT (FIRST AID)



CAUSES EYE IRRITATION. AVOID CONTACT WITH EYES. WASH AFTER HANDLING. IN CASE OF CONTACT FLUSH WITH PLENTY OF WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS IF CONTACT WITH SKIN OCCURS, WASH WITH PLENTY OF SOAP AND WATER.

AGRINOX MUST CONTACT MICROORGANISMS TO BE EFFECTIVE. SURFACES GROSSLY SOILED MUST HAVE SUCH SOIL REMOVED PRIOR TO DISINFECTION / STERILIZATION. THOROUGHLY WASH AND RINSE THE SURFACE(S). THEN, THOROUGHLY WET THE SURFACE(S) WITH MIXED AGRINOX SOLUTION AND ALLOW TO REMAIN FOR NOT LESS THAN 10 MINUTES FOR DISINFECTION AND NOT LESS THAN 20 MINUTES FOR STERILIZATION AT 20°C OR HIGHER. DISINFECTED SURFACES MAY BE RINSED IF DESIRED.

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EPA REG. NO.: 46506-1
NET CONTENTS: 1 GALLON

EPA EST NO.: 46791-CO-1

METREX RESEARCH CORPORATION
PARKER, CO 80134

AGRINOX Trademark of BIONOX CORPORATION, TUCSON, AZ 85715

(Licensed from U.S. Navy under U.S. Patent no. 3,717,580)

BACK PANEL - AGRINOX- SOLUTION A

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTANT WITH ITS LABELING.

RECOMMENDED FOR RAPID DISINFECTION OR STERILIZATION OF HARD, NON-POROUS SURFACES SUCH AS: STAINLESS STEEL, CHROME, CERAMIC, WALLS, GLASS, VINYL FLOORS. BATHROOMS, AND MEDICAL INSTRUMENTATION.

RECOMMENDED FOR SEED DISINFECTION TO CONTROL FUNGAL PATHOGENS/CONTAMINANTS ON A WIDE RANGE OF VEGETABLES AND FIELD CROPS.

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PHYSICAL AND CHEMICAL HAZARDS - STRONG OXIDIZING AGENT MIX ONLY ACCORDING TO LABEL DIRECTIONS. MIXING THIS PRODUCT WITH ORGANIC MATTER OR CHEMICALS SUCH AS AMMONIA, ACIDS OR DETERGENTS WILL RELEASE CHLORINE GAS.

STORAGE AND DISPOSAL

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FRONT PANEL - AGRINOX- SOLUTION B AGRINOX

SPORICIDAL
VIRUCIDAL*
TUBERCULOCIDAL

BACTERICIDAL
FUNGICIDAL
PSEUDOMONICIDAL

DISINFECTANT AND STERILANT FOR USE IN AGRICULTURE, INCLUDING AS A SEED
DISINFECTANT AS WELL AS IN VETERINARY HOSPITALS

SOLUTION B

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INERT INGREDIENTS 100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

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HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS

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RECOMMENDED FOR SEED DISINFECTION TO CONTROL FUNGAL PATHOGENS/CONTAMINANTS ON A WIDE RANGE OF VEGETABLES AND FIELD CROPS.

AN IMPROVED, FAST-ACTING HYPOCHLORITE DISINFECTANT / STERILANT. WHEN USED AS DIRECTED, CORROSION IS NOT A MAJOR FACTOR. HOWEVER, DELICATE AND EXPENSIVE INSTRUMENTS SHOULD NEVER BE LEFT IN CONTACT WITH AGRINOX LONGER THAN THE EXPOSURE PERIOD OF 20 MINUTES FOR STERILIZATION, AND SHOULD BE RINSED WITH STERILE WATER AND DRIED.

PHYSICAL AND CHEMICAL HAZARDS - STRONG OXIDIZING AGENT MIX ONLY ACCORDING TO (SEE) DIRECTIONS. MIXING THIS PRODUCT WITH ORGANIC MATTER OR CHEMICALS SUCH AS AMMONIA, ACIDS OR DETERGENTS WILL RELEASE CHLORINE GAS.

STORAGE AND DISPOSAL

DO NOT CONTAMINATE FOOD OR FEED BY STORAGE, DISPOSAL OR CLEANING OF EQUIPMENT.

STORE IN A COOL, DRY AREA, AWAY FROM DIRECT SUNLIGHT AND HEAT. IN CASE OF SPILL, CLEAN WITH LARGE QUANTITY OF WATER. PRODUCT OR RINSATES SHOULD BE DILUTED WITH WATER AND RINSED DOWN DRAIN. DISPOSE OF CONTAINER IN TRASH. DO NOT REUSE.

AGRINOX IS A MIXTURE OF TWO SOLUTIONS. DO NOT USE SEPARATELY. RAPID DISINFECTION OR STERILIZATION OCCURS ONLY BY USE OF EQUAL VOLUMES OF SOLUTIONS A AND B WHICH ARE TO BE USED WITH THE SPRAY DEVICE OBTAINABLE FROM THE MANUFACTURER. FOLLOW DEVICE OPERATING INSTRUCTIONS. SOAK SOLUTION MAY BE PREPARED BY MIXING EQUAL VOLUMES OF SOLUTION A AND SOLUTION B IN A TRAY IN WHICH CLEAN INSTRUMENTS TO BE DISINFECTED / STERILIZED HAVE BEEN PLACED.

AGRINOX IS APPLIED AS A SPRAY FROM TWO CONTAINERS, A AND B. CONTAINER A IS ALWAYS FILLED WITH SOLUTION A (HYPOCHLORITE) AND CONTAINER B IS ALWAYS FILLED WITH SOLUTION B. MANUFACTURER'S DIRECTIONS FOR USE OF THE SPRAY DEVICE SHOULD BE CAREFULLY FOLLOWED.

THE MIXING OF THE TWO SOLUTIONS TAKES PLACE AS THE MIXTURE IS SPRAYED ON THE SURFACE(S) TO BE DISINFECTED / STERILIZED. AS A AND B ARE NOT MIXED UNTIL THEY REACH THE SPRAY NOZZLE, THEY MAY BE COMPLETELY EXPENDED FROM THEIR STORAGE TANKS. DO NOT USE ON FOOD CONTACT SURFACES.

SEED DISINFECTION OCCURS BEST WHEN SEEDS ARE TREATED WITH APPROXIMATELY 1419 PPM AVAILABLE CHLORINE FOR 10 MINUTES UNDER VACUUM OF APPROXIMATELY 30 IN. MERCURY, AT 20°C.