

US EPA ARCHIVE DOCUMENT

EFFICACY REVIEW

DATE: IN 5/24/88 OUT 5/25/88

FILE OR REG. NO. 46506-1

PETITION OR EXP. PERMIT NO. 8F 3601

DATE DIVISION RECEIVED 4-13-88

DATE OF SUBMISSION 4-13-88

DATE SUBMISSION ACCEPTED _____

TYPE PRODUCT(S): I, D, H, F, N, R, S _____

DATA ACCESSION NO(S). _____ RECORD NO. _____

PRODUCT MGR. NO. 32

PRODUCT NAME(S) Bionox Solution A

COMPANY NAME The Bionox Corporation

SUBMISSION PURPOSE Petition for Exemption from the requirement
for a Tolerance: Seed Disinfectant to control (reduce)
fungal pathogens/contaminants on a wide range of vegetable & field crops
(prior to storage +/- planting of seed).

CHEMICAL & FORMULATION

Sodium hypochlorite - - - - - 0.5% Liquid

[? pounds product/gallon]

CONCLUSIONS & RECOMMENDATIONS We certify that the proposed use
should be useful for it's intended purpose when used at
a concentration of 0.3% sodium hypochlorite (= 2857 ppm available
chlorine provided that a sufficient exposure time is utilized.
This opinion is based on the fact that ^{similar} ~~the~~ products are currently
registered for use in disinfecting a wide range of inanimate surfaces
at concentrations of 200 to 1,200 ppm available chlorine and for
disinfecting freshly harvested vegetables at concentrations of

55 to 70 ppm available chlorine. Similarly in 1965 we registered a similar product for control of Halo blight and other surface borne bacteria on bean seed at a use concentration of 10,000 ppm available chlorine with a 1 to 5 minute soak treatment. Note: At that time this use was considered a "nonfood" use because it was presumed that no residues were present at the time seed was planted.

Richard E. Mitchell
Plant Pathologist
RD, FHB, TSS

Notes to PM: In addition to the possibility that no residues will remain on treated seed at time of planting the active ingredient sodium hypochlorite is listed as a GRAS chemical in 40 CFR § 180.2.

E 5/26/88