



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

November 7, 2000

MEMORANDUM

Subject: Secondary Review of Contractor's (Oak Ridge National Lab) Efficacy Review of EPA Reg. No. 5382-UA, "Chlorite Plus CD-2"
DP Barcode: D268714

From: Ibrahim S. Barsoum, Ph.D., Microbiologist
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Efficacy Evaluation Team
Antimicrobials Division (7510C)

Ibrahim S. Barsoum 11/7/00

To: Robert Brennis, PM 32/Wanda Mitchell
Regulatory Management Branch II
Antimicrobials Division (7510C)

Thru: Emily Mitchell, M.S., Team Leader
Efficacy Evaluation Team
Product Science Branch
Antimicrobials Division (7510C)

Emily Mitchell 11/30/00

Michele E. Wingfield, Chief
Product Science Branch
Antimicrobials Division (7510C)

Formulation From Label:

<u>Active Ingredient(s)</u>	<u>% by wt</u>
Sodium Chlorite.....	2.8%
<u>Inert Ingredient(s)</u>	97.2%
Total	100.00%

SUMMARY OF INFORMATION REVIEWED AND FINDINGS/CONCLUSIONS:

1. The Oak Ridge National Laboratory's efficacy reviews have undergone secondary review by AD/PSB/EET. The contractor's reviews reflect EPA's Pesticide Assessment

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Guideline requirements and regulations and the findings/conclusions are scientifically sound. The efficacy data submitted under the MRID No. 449107-04 demonstrate the efficacy of the product against *Pseudomonas aeruginosa* (ATCC 15442), *Salmonella cholerasuis* (ATCC 10708), *Staphylococcus aureus* (ATCC 6538) for 10 min (500 ppm) and 1 hr (50 ppm) contact time at 20 ± 1 C temperature. The efficacy data submitted under the MRID No. 449107-05 demonstrate the efficacy of the product against *Pseudomonas aeruginosa* (ATCC 15442), *Salmonella cholerasuis* (ATCC 10708), *Staphylococcus aureus* (ATCC 6538) for 10 min (500 ppm) contact time at 22 ± 1 C temperature. The efficacy data submitted under the MRID No. 449107-06 demonstrate the efficacy of the product against against *Escherichia coli* (ATCC 11229) and *Staphylococcus aureus* (ATCC 6538) for 30 and 60 seconds contact time at 25 C temperature.

2. Five minutes reaction time was allowed to dissolve the citric acid crystals in the concentrated product for preparation of the active solution as described in the three test procedures. This is different from the contact time between the test samples and the test microorganisms.
3. The label has been modified according to the directions sent to the registrant in a letter dated June 20, 2000 except for the following heading:
[11]: should read: "To inhibit bacterial slime forming bacterial buildup in cooling water systems"

NOTE TO PM: A copy of Oak Ridge National Laboratory's Efficacy Evaluation Report dated November 2, 2000 (7 pgs) is appended to our memorandum. Our secondary review projects Findings/Conclusions to assist PM in communicating the Agency's decision to the applicant.

Attachment: Oak Ridge National Laboratory's Efficacy Evaluation Report dated November 2, 2000 (7 pgs.)

C: \copies of reviews\Secondary review for Chlorite Plus CD-2

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