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DATA ACCESSION NO(S). 410609-01

PRODUCT MANAGER NO. S.Lewis (21)

PRODUCT NAME(S) Dagger G Biofungicide

COMPANY NAME Ecogen Inc.

SUBMISSION PURPOSE Submission of Daphnia study to support conditional registration

SHAUGHNESSEY NO. CHEMICAL, & FORMULATION 8 A.I.



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

MEMORANDUM

SEP 14 1989

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

SUBJECT: Review of Freshwater Invertebrate Toxicity
and Pathogenicity Study for Conditional
Registration of Dagger G Biofungicide

FROM: Zig Vaituzis, Microbiologist
Ecological Effects Branch (H7507-C)
Environmental Fate and Effects Division

THRU: Raymond W. Matheny, Head Section 1
Ecological Effects Branch (H7507-C)
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James W. Akerman, Chief
Ecological Effects Branch (H7507-C)
Environmental Fate and Effects Division

TO: Susan Lewis (PM-21)
Fungicide/Herbicide Branch
Registration Division (H7505-C)

Zig Vaituzis 9/14/89

Raymond W. Matheny 9/14/89

James W. Akerman 9/20/89

The Ecological Effects Branch has received and reviewed the Freshwater Invertebrate Toxicity and Pathogenicity Study submitted by Ecogen, Inc. as required by the conditional registration of Dagger G Biofungicide (Pseudomonas fluorescens). The following study is being included in the branch file on Dagger G:

Breteler, R.J. 1989. The Chronic Toxicity of Pseudomonas fluorescens to Daphnia magna Under Static Renewal Conditions. Study conducted by Springborn Life Sciences, Inc., Wareham, MA. Report No. 89-1-2916. Study No. 11675.0188.6102.110. Submitted by Ecogen, Inc., Langhorne, PA. MRID No. 410609-01.

This study is scientifically sound and fulfills the guideline requirements for a freshwater invertebrate 21-day renewal toxicity/pathogenicity study. The results of the study show that Pseudomonas fluorescens is non-toxic to Daphnia magna at a concentration equal to 1000 times the EEC. The use of Dagger G is not expected to pose a hazard to freshwater invertebrates.