

US EPA ARCHIVE DOCUMENT

107901

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EEE BRANCH REVIEW

DATE: IN 8/23/78 OUT 5/30/79 IN \_\_\_ OUT \_\_\_ IN \_\_\_ OUT \_\_\_

FISH & WILDLIFE ENVIRONMENTAL CHEMISTRY EFFICACY

FILE OR REG. NO. 21137-4

PETITION OR (EXP. PERMIT NO.) \_\_\_\_\_

DATE DIV. RECEIVED \_\_\_\_\_

DATE OF SUBMISSION \_\_\_\_\_

DATE SUBMISSION ACCEPTED \_\_\_\_\_

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

DATA ACCESSION NO(S). 232730

PRODUCT MGR. NO. PM-21 (Wilson)

PRODUCT NAME(S) Funginex<sup>®</sup> 20% EC

COMPANY NAME E.M. Laboratories

SUBMISSION PURPOSE Resubmission with data

CHEMICAL FORMULATION Triforine (N, N<sup>1</sup> [1,4 piperazinediyl bis  
(2,2,2-trichlorethylidene)] bis(formamide))

Pesticide Name

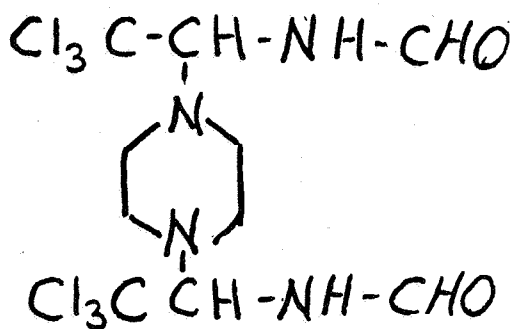
Triforine

101 Physical and Chemical Properties

101.1 Chemical Name

(N, N<sup>1</sup>-[1,4 piperazinediyl bis(2,2,2-trichlorethylidene)]  
bis(formamide))

101.2 Structural formula



101.3 Common Name

Triforine

101.4 Trade Name

Funginex 20% EC

101.5 Molecular Weight

435

101.6 Physical State

Colorless and odorless crystalline substance

101.7 Solubility

Water solubility is approximately 30 ppm at room temperature. Hardly soluble in most common organic and inorganic solvents.

107 Conclusions

107.4 Data Adequacy Conclusions

1) The aquatic invertebrate 48-hr  $LC_{50}$  study submitted for validation (Acc. No. 232730; G.A. LeBlanc, 1977, Acute toxicity of triforine technical to the water flea (Daphnia magna), E G & G, Bionomics) by E. M. Laboratories has already been validated as Unacceptable by D.J. Urban (3/14/78) when this study was originally submitted by Chevron Chemical Co. However, E. M. Laboratories has previously submitted another aquatic invertebrate 48-hr  $LC_{50}$  study (Registration No. 21137-4; G. LeBlanc, 1978, Acute toxicity of Triforine technical to the water flea (Daphnia magna), E G & G, Bionomics; E. M. Lab No. BW-78-5-153) which was validated as Acceptable by H.J. Craven (11/20/78). Therefore, E.M. Laboratories has satisfied the requirement for an aquatic invertebrate 48-hr  $LC_{50}$  study.

2) The avian acute oral  $LD_{50}$  using Japanese quail is Unacceptable to support the registration. Japanese quail are not an acceptable test species.

107.5 Data Request

The avian acute oral  $LD_{50}$  for one species of waterfowl (mallard duck, preferably) or one species of upland game bird (ring-necked pheasant or bobwhite quail, preferably).

107.6 Special Notes

Note: This review and its conclusions apply only to E. M. Laboratories and not to any other registrant.

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