EEE BRANCH REVIEW

DATE: IN 12/8/76 UT 3/17/77 IN CUT IN OUT
FISH & WILDLIFE ENVIRONMENTAL CHEMISTRY EFFICACY
FILE OR REG. NO. 39496-R
PETITION OR EXP. PERMIT NO.
DATE DIV. RECEIVED
DATE OF SUMMISSION
DATE SURMISSION ACCEPTED
TYPE PRODUCT(S): I, D, H, F, N, R, S Tebacco Sucker Control Agent
PRODUCT MGR. NO. Taylor
PRODUCT NAME (S) ALFOL 810 Alcohol
COMPANY NAME Continental Oil Company
SUBMISSION PURPOSE Registration
CHEMICAL & FORMULATION Fatty Alcohol n-octanol45.1% N-decanol-54.5%
N-hexano10.4%

ALFOL 810 Alcohol is the technical ingredient for formulations used to control Tobacco suckers. Pesticidal Use: 100.0 Chemical and Physical Properties Fatty Alcohol (N-octanol-45.1%,N-Decanol-54.5% n-Hexanol-0.4%) 101.0 Behavior in the environment Environmental chemistry data not available. 102.0 103.0 Toxicological properties Acute toxicity

103.1

103.1.1 Mammal

TEST: Rat

RESULTS: LD50=18,240(14,250-23,340) mg/kg 95% C.L.

CHEMICAL: ALFOL 810 Alcohol

TITLE: Acute Oral Toxicity (LD50) Study in Rats

ACCESSION NO.: 226806

STUDY DATE: 4-29-65

RESEARCHER: Scientific Associates Inc.

SUBMISSION: Continental Oil Company

103.1.2 Bird

<u>TEST: Avian acute oral</u>

SPECIES: Mallard Duck (anas platyrhynchos)

RESULTS: LD50 >4,640 mg/kg

CHEMICAL: ALFOL 810 Alcohol (Technical)

TITLE: Acute Oral LD50-Mallard Duck ALFOL:810 Alcohol

ACCESSION NO.: 226198

STUDY DATE: Sept. 17, 1975

RESEARCHER: Robert Fink: Wildlife Research Division

Truslow Farms, Inc.

SUBMISSION: Continental 011 Company

TEST ACCEPTABILITY: This study meets the requirements for an avian acute oral for a species of waterfowl no mortality or abnormalities were noted. The age of the birds in this study were 14 days at initiation. At this time this is acceptable based upon the high LD50 reported and high LC50 for this chemical.

103.1.3 Fish:

TEST: Static Bloassay

SPECIES: Bluegili (Tepomis macrochirus)

RESULTS: 96 hr. LCgn=9.96 ppm (7:68-12.90 ppm) 95% C.L.

CHEMICAL: ALFOL 810 Alcohol (Technical)

Acute toxicity of two conoco compounds to bluegill, (Lepomis macrochirus) and rainbow trout (salmo TITLE

Accession No. 226198

STUDY DATE: Sept 1275

RESEARCHERS Robert E. Bentley: E.G. &G. Bionomics, Aquatic.

Toxicology Laboratory

SUBMISSION: Continental 011 Company

TEST ACCEPTABILITY: This study meets the requirements for a 96 hr. static LC₅₀ for a warm water species of fish. The no discernible effect level was 5.60 ppm.

TEST: Static Bioassay

SPECIES: Rainbow Trout (Salmo gairdneri)

RESULTS: 96 hr. LC50 >6.50 <10.00 ppm

CHEMICAL: ALFOL 810 Alcohol (Technical)

TITLE: Acute toxicity of two conoco compounds to Bluegill

(Leomis macrochirus) and Rainbow Trout (Salmo

gairdneri).

ACCESSION NO.: 226198

STUDY DATE: Robert E. Bentley; E.G.&G. Bionomics, Aquatic

Toxicology Lab.

SUBMISSION: Continental 011 Co.

TEST ACCEPTABILITY: This study meets the requirements for a 96 hr. static LC50 for a cold water species of fish. The no discernible effect level was 2.8 ppm:

103.1.4 Aquatic Invertebrate

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TEST: Static Bioassay

SPECIES: Daphnia (Daphnia magna)

RESULTS: 48 hr. LC50=8.24 (5.52 - 12.3) ppm 95% C.L.

CHEMICAL: ALFOL 810 Alcohol (Technical)

TITLE: Acute Toxicity of ALFOL 810 and ALFOL 10 Alcohols

to Daphnia magna.

ACCESSION NO.: 226806

STUDY DATE: Sept. 1976

RESEARCHER: E.G.&G. Bionomics

SUBMISSION: Continental Oil Company

TEST ACCEPTABILITY: This study meets the requirements for a $\frac{1}{48}$ hr. static LC50 for an aquatic invertebrate no discernible effect level = 1.8 ppm.

103.2 **Subacute Toxicity**

103.2.1 Bird

HERENA

Avian 8 day dietary TEST:

SPECIES: Mallard Duck (Anas platyrhynchos)

LC₅₀ >10,000 ppm **RESULTS:**

CHEMICAL: ALFOL 810 Alcohol (Technical)

Eight-day dietary LC_{50} - Mallard Duck ALFOL 810 alcohol TITLE:

ACCESSION NO.: 226198

STUDY DATE: September 17, 1975

RESEARCHER: Robert Fink; Wildlife Research Division.

Truslow Farm Inc.

Continental Oil Company SUBMISSION:

TEST ACCEPTABILITY: This study meets the requirements for an avian 8 day dietary LC50 for a species of waterfowl.

TEST: Avian 8 day dietary

SPECIES: Bobwhite quail (Colinus virginianus)

RESULTS: =LC50 >10,000 ppm

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CHEMICAL: ALFOL 810 Alcohol (Technical)

TITLE: Eight-Day dietary LC50 Bobwhite quail ALFOL

810 Alcohol

ACCESSION NO.: 226198

STUDY DATE: September 17, 1975

RESEARCHER: Robert Fink, Wildlife Research Division

Truslow Farms Inc.

SUBMISSION: Continental 011 Company

TEST ACCEPTABILITY: This study meets the requirements for an avian 8 day dietary LC50 for a species of upland game bird.

104.0 Hazard Assessment:

104.1 Discussion

ALFOL 810 Alcohol is a fatty Alcohol which has minimal acute or subacute toxicity and hazard to wildlife species. This chemical will be used in manufacturing formulations to control tobacco suckers, and these crops are not utilized to any degree by wildlife. Environmental chemistry data was not supplied so any further evolution of hazard from chronic problem in the environment is not possible.

104.1.2 Adequacy of Toxicity Data:

The data supplied are adequate

104.1.3 Additional data required

No additional data is required to support registration of this product for manufacturing use.

104.1.4 Likelihood of exposure to non-target organisms. As this registration is for manufacturing use environmental hazard to non-target organisms is not expected to occur.

104.2 Classification:

MINISTER

ALFOL 810 Alcohol has been given a general use classification for manufacturing. Calculations were not done due to lack of application rates.

105.0 Conclusions:

The Environmental Safety Staff concurs with this registration for manufacturing use and further recommends a general use classification.

Before the registration is granted the precuationary labeling will need to be amended to correct the environmental portion. The following statements must be added to the label "Keep out of lakes, ponds or streams. Do not contaminate water by cleaning of equipment or disposal of wastes."

Thomas F. O'Brien

Fish and Wildlife Section

EEEB - RD WH567

Mon

3/17/77