

US EPA ARCHIVE DOCUMENT

EFFICACY REVIEW

DATE: IN 1/2 OUT 1/2/80

FILE OR REG. NO. 100-597

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

DATE DIV. RECEIVED October 11, 1979

DATE OF SUBMISSION October 5, 1979

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

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

DATA ACCESSION NO(S). \_\_\_\_\_

PRODUCT MGR. NO. Willa Garner (23)

PRODUCT NAME(S) Dual-8E

COMPANY NAME Ciba-Geigy

SUBMISSION PURPOSE Amend: Tank mixture with Dyanap on peanuts.

CHEMICAL & FORMULATION Metolachlor: 2-Chloro-N-(2-ethyl-6-

methylphenyl)-N-(2-methoxy-1-methylethyl)

acetamide-86.4% (8 lbs. a.i/gal).

**DYANAP CONSISTS OF ALANAP PLUS DIOSEB**

200.0

Introduction

Ciba-Geigy is requesting amended registration of Dual 8E to include use either alone or in a sequence with Dyanap or in a tank-mix combination with Dyanap on peanuts (submission of October 5, 1979).

Dual 8E alone and Dual 8E plus Dyanap tank-mix are currently registered for use on soybeans (EPA Registration No. 100-597) Dyanap is currently registered for use on peanuts at 6 qts./A (Registration No. 400-75).

Proposed use pattern would allow postplant incorporated application of Dual 8E in addition to currently registered use patterns which are: preplant incorporated application and pre-emergence. Postplant application and incorporation are recommended to be made after planting, but before peanut germination. Recommended dosage of Dual 8E alone is 2-4 pts./A; whereas, registered dosage is 1.5-3 pts/A. Additionally, breakdown of dosages according to soil texture and soil organic matter was not given in details as those on the currently registered soybean label. Weed species claimed to be controlled in peanuts by Dual 8E alone, are the same as those on the soybean label. Also, rotational crop recommendations are similar to those on the registered label except that replanting would include peanuts in addition to the currently approved corn and soybeans. Proposed use pattern of Dual 8E/Dyanap tank-mix would allow use at cracking time, and that for the sequential application would allow preplant incorporated or preemergence application of Dual 8E followed by preemergence to cracking time application of Dyanap. Recommended dosages for the tank-mix or sequential applications are the same for each herbicide alone; i.e., 2-4 pts./A of Dual 6E and 6 qts./A of Dyanap alone. The company is claiming weed control of 32 species and partial control of 6 other species. Dual alone controls 16 of the 32 species and Dyanap alone controls the remaining 16 species. Also, Dual alone provides partial control of 3 species, and that the remaining species are new claims included in the list of partially controlled species. These are: black nightshade, coffeeweed, and sicklepod. Finally, rotational crop recommendations are similar to those on the registered soybean label where both herbicides are used in a tank-mix, except that replanting would include peanuts in addition to the currently approved

corn and soybeans. It should be noted, however, that the company inserted a footnote allowing use of Dual alone, the tank mix, or the sequential treatment with Dyanap following preplant incorporated applications of the following herbicides: Balan at 3-4 qts./A; Cobex at 1.5-3 pts./A; Treflan at 1 pt./A; or Vernam at 2.34-3 pts./A.

201.0 Uses

As described above. Also, see attached label amendment.

202.0 Data Summary

No data were submitted. According to Ciba-Geigy, supporting data are on file in Greensboro, North Carolina.

203.0 Label Comments

Dual Alone

1. Under postplant incorporated application, proposed label amendment must clarify the following: (a) planting to application and application to incorporation intervals; (b) seeding depth and incorporation depth; and, (c) the meaning of seed germination and how could it be determined in the field.
2. Label statement "Apply Dual 8E alone incorporated or preemergence \_\_\_\_\_ per acre;" <sup>MUST</sup> ~~ANY~~ read "Apply Dual 8E alone as described above using the appropriate rate from the following table." Then give breakdown of dosages according to soil texture and soil organic matter similar to those on the registered soybean label. Alternatively, you may reference Table 1 <sup>FOR USE ON</sup> ~~on the~~ registered soybeans ~~label~~ **IF SOYBEAN AND PEANUT USES ARE ON THE SAME LABEL.**
3. Label amendment must be explicit in describing: (a) the nature of diluent; (b) spray volume; and, (c) implement recommended for applying the herbicide; i.e., ground and/or aerial equipment.

Dual 8E/Dyanap Sequential Application

- ~~1. In situations where both herbicides are applied preemergence, label amendment must clarify: (a) which herbicide could be applied first; (b) planting to first herbicide application interval; and, (c) first to second herbicide application interval.~~
2. Label statement "Apply Dual 8E \_\_\_\_\_ on that label," <sup>MUST</sup> ~~may~~ read "Apply Dual 8E according to the directions for use alone \_\_\_\_\_ on that label."
3. Label proposed amendment must be specific in describing: (a) the nature of diluent; (b) spray volume; and (c) implement recommended for applying each herbicide; e.g., ground and/or aerial equipment.

Dual 8E plus Dyanap Tank Mix

1. Label proposed amendment must be specific in describing: (a) the nature of diluent; (b) implement recommended for applying the tank-mix; e.g., ground and/or aerial equipment; and (c) tank-mix instructions including order of adding each component to the spray tank.

All Uses

1. Delete footnote appearing on page 4 where use of Dual 8E, Dual 8E plus Dyanap tank-mix, and Dual 8E/Dyanap sequential application; are recommended after preplant incorporated application of other herbicides. Alternatively, label amendment must be explicit in describing use pattern, claims, dosages, cautions and precautions.
2. Proposed Dual 8E dosages of 2-4 pts/A for all uses, must be consistent with that currently registered which is 1.5-3 pts/A.
- ~~3. Label amendment must define what is meant by cracking time, e.g., "5-7 days after planting."~~

203.0

Recommendations

Proposed use of Dual 8E, Dual 8E plus Dyanap tank-mix, and Dual 8E/Dyanap sequential applications to peanuts will be accepted after complying with the above label comments (202.0).

*Sami Malak 1/7/80*

Sami Malak  
TSS, HFB  
Registration Division  
January 2, 1980

*1/9/80*

Note to PM : If aerial application is not ruled out by Label statements, then this amendment should be submitted to Dr. Robert Holst (HED, FFB) for review of effects on non-target species.

*S.M.*