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108501
SHAUGHNESSEY NO.

41
REVIEW NO.

EEB BRANCH REVIEW

DATE: IN 12-19-83 OUT 1-19-84

FILE OR REG. NO. 241-EUP-RNU

PETITION OR EXP. PERMIT NO. _____

DATE OF SUBMISSION 10-27-83

DATE RECEIVED BY HED 12-19-83

RD REQUESTED COMPLETION DATE 1-19-84

EEB ESTIMATED COMPLETION DATE 1-19-84

RD ACTION CODE/TYPE OF REVIEW 751/EUP

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

DATA ACCESSION NO(S). _____

PRODUCT MANAGER NO. R. Taylor (12)

PRODUCT NAME(S) PROWL

COMPANY NAME American Cyanamid Company

SUBMISSION PURPOSE Resubmission of EUP for onions and garlic adding
aerial application

| SHAUGHNESSEY NO. | CHEMICAL, & FORMULATION | % A.I. |
|------------------|-------------------------|-------------|
| <u>108501</u> | <u>pendimethalin</u> | <u>42.3</u> |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

/

Pesticide Name Pendimethalin

100 Submission Purpose and Label Information

100.1 Submission Purpose and Pesticide Use

The registrant seeks to modify a previous EUP proposal to allow aerial application of the herbicide Prowl to onions and garlic. Prowl's herbicidal properties will be evaluated in the following eight states:

| <u>State</u> | <u># of acres</u> | <u># of gallons of Prowl</u> |
|--------------|-------------------|------------------------------|
| Arizona | 100 | 25 |
| California | 800 | 200 |
| Colorado | 50 | 13 |
| Nebraska | 10 | 3 |
| New Mexico | 50 | 13 |
| Oregon | 50 | 13 |
| Texas | 100 | 25 |
| Washington | 50 | 13 |
| total | 1210 | 305 |

100.2 Formulation Information

pendimethalin.....42.3%
inert ingredients.....57.7%

100.3 Application Methods, Directions, Rates

See attached.

100.4 Target Organisms

See attached.

100.5 Precautionary Labeling

Environmental Hazards.

This product is toxic to fish. Keep out of lakes, streams or ponds.
Do not apply when weather conditions favor drift from target area.
Do not contaminate water by cleaning of equipment or disposal of wastes.

101 Hazard Assessment

101.1 Discussion

The proposed experimental use permit (Sec. 5) is a resubmission of a previous proposal. The registrant is seeking the addition of aerial application. The EUP calls for preplant incorporated, preemergence or early postemergence treatment (0.75-1.5 lbs. a.i./acre) for onions and garlic. Prowl is currently registered for use on field corn, cotton, soybeans, lima and snap beans.

101.2 Likelihood of Adverse Effects to Non-target Organisms

Pendimethalin is only slightly toxic ($LD_{50} > 1000\text{mg/kg}$) to birds and mammals, but highly toxic to aquatic organisms (rainbow trout $LC_{50} = 0.14\text{ ppm}$; *Daphnia* $LC_{50} = 0.28\text{ ppm}$). Drift and runoff from treated areas could pose a risk to aquatic animals, but this is considered minimal when the 1210 acres proposed is compared with the nearly 200 million acres presently registered. A previous review by M. Rexrode (6-24-83) concluded no significant increase in risk, which considered only ground applications. The addition of aerial treatments would not alter this conclusion as proposed.


101.3 Endangered Species Considerations

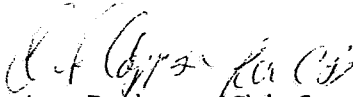
No endangered species have been identified which could be affected by this EUP.

103 Conclusions

The Ecological Effects Branch has completed a risk assessment of the proposed experimental use permit of Prowl for use (including aerial treatment) on onions and garlic. Based upon the available data EEB concludes that the proposed uses provide for no significant increase in exposure or risks to nontarget organisms.

 1-19-84
Les Touart, Fisheries Biologist, Sec. 4

 1-20-84
Henry T. Craven, Head, Sec. 4


Clayton Bushong, Chief
Ecological Effects Branch
Hazard Evaluation Division (TS-769)

Pendimethalin ecological effects review

Page _____ is not included in this copy.

Pages 4 through 6 are not included in this copy.

The material not included contains the following type of information:

- ☐ Identity of product inert ingredients
 - ☐ Identity of product impurities
 - ☐ Description of the product manufacturing process
 - ☐ Description of product quality control procedures
 - ☐ Identity of the source of product ingredients
 - ☐ Sales or other commercial/financial information
 - ☒ A draft product label
 - ☐ The product confidential statement of formula
 - ☐ Information about a pending registration action
 - ☐ FIFRA registration data
 - ☐ The document is a duplicate of page(s) _____
 - ☐ The document is not responsive to the request
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The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.
