174326
RECORD NO.

121001
SHAUGHNESSEY NO.

(L)
REVIEW NO.

EEB REVIEW

DATE: IN 5-30-86 OUT 09 JUN 1986

FILE OR REG. NO 86-MT-09

PETITION OR EXP. NO.

DATE OF SUBMISSION 5-12-86

DATE RECEIVED BY HED 5-28-86

RD REQUESTED COMPLETION DATE 6-12-86

EEB ESTIMATED COMPLETION DATE 6-12-86

RD ACTION CODE/TYPE OF REVIEW 510

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

DATA ACCESSION NO(S).

PRODUCT MANAGER NO. J. Housenger (41)

PRODUCT NAME(S) Poast

COMPANY NAME State of Montana

SUBMISSION PURPOSE Proposed Section 18 for use on safflower

SHAUGHNESSEY NO.	CHEMICAL, & FORMULATION	% A.I.
121001	Sethoxydim	18.0%

EEB REVIEW

100 Submission Purpose and Label Information

100.1 Submission Purpose and Pesticide Use

The State of Montana is requesting an emergency exemption (Section 18) for the use of Poast on safflower during the 1986 crop season. The herbicide is needed to control wild oats and volunteer cereal grains. No data were submitted with this request.

100.2 Formulation Information

Active Ingredient:
Sethoxydim 18.0%

Inert Ingredients 82.0%
(1.5 lb a.i. per gallon)

100.3 Application Methods, Directions, Rates

See Attached Label.

100.4 Target Organisms

Target organism include wild oats (Avena fatua) and volunteer cereal grains, primarily wheat and barley.

101 Hazard Assessment

101.1 Discussion

The proposed emergency exemption would allow the use of Poast Herbicide on 50,000 acres of safflower in Montana. Application rate is 1.5 pints of 18% EC (0.28 lb ai) per acre in not less than 5 gallons of water, with only one application allowed.

101.2 Likelihood of Adverse Effects on Nontarget Organisms

Data from previous EEB reviews indicate that sethoxydim is practically non-toxic to mammals, birds, and freshwater fish, and no more than slightly toxic to aquatic invertebrates. The low use rate will result in exposure concentrations of less than 150 ppm on most terrestrial dietary food items. Direct application to water at the proposed rate would result in an aquatic EEC of less than 0.15 ppm, substantially less than that expected to adversely affect aquatic fauna. Given an environmental half-life of less than 4 days in both soil and water, sethoxydim is not expected to cause any adverse effects in non-target fauna.

101.3 Endangered Species Consideration

No significant impact is expected on any listed species, because of the low application rate, low toxicity, and short half-life exhibited by sethoxydim. Sethoxydim is highly toxic to members of the grass family, but none of the listed species of grasses has been found in Montana.

103 Conclusions

The Ecological Effects Branch has completed review of the proposed emergency exemption for the use of Poast on safflower in Montana. Based on available data, EEB concludes that use under the proposed Section 18 is not expected to result in adverse effects on non-target organisms.

Allen W. Vaughan 6/6/86
Allen W. Vaughan, Entomologist
Ecological Effects Branch
Hazard Evaluation Division (TS-769)

Norman J. Cook 6-6-86
Norman J. Cook, Section Head
Ecological Effects Branch
Hazard Evaluation Division (TS-769)

6/6/86
Michael W. Slimak, Chief
Ecological Effects Branch
Hazard Evaluation Division (TS-769)

Sethoxydim ecological effects review

Page _____ is not included in this copy.

Pages 4 through 5 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

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.