

US EPA ARCHIVE DOCUMENT

218999
RECORD NO.

125401
SHAUGHNESSEY NO.

REVIEW NO.

EEB REVIEW

DATE: IN 4-6-88 OUT 12 APR 1988

FILE OR REG. NO 88-LA-02

PETITION OR EXP. NO. _____

DATE OF SUBMISSION 3-25-88

DATE RECEIVED BY HED 4-5-88

RD REQUESTED COMPLETION DATE 4-18-88

EEB ESTIMATED COMPLETION DATE 4-18-88

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. D. Stubbs (41)

PRODUCT NAME(S) Command (Clomazone)

COMPANY NAME Louisiana Department of Agric. and Forestry

SUBMISSION PURPOSE Proposed Section 18 for use on sweet
potatoes

SHAUGHNESSEY NO.	CHEMICAL, & FORMULATION	% A.I.
<u>125401</u>	<u>Command herbicide (Clomazone)</u>	<u>71.35%</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

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EEB REVIEW

Chemical: Command Herbicide (Clomazone)

100 Submission Purpose and Label Information

100.1 Submission Purpose and Pesticide Use

The Louisiana Department of Agriculture and Forestry is requesting an emergency exemption (Section 18) for the use of Command herbicide to control annual broadleaf weeds and grasses in sweet potatoes. No data were submitted with this request.

100.2 Formulation Information (from previous EEB review)

6EC

FMC 57020 technical (at 90% purity) 71.35%*
Inert Ingredients 28.65%**

* Variable, depending on purity (potency) of technical.

** Variable

100.3 Application Methods, Directions, Rates

Application Information

Application will be made prior to weed emergence, using ground equipment. Maximum application rate is 3 pints (1.5 lb ai) per acre, with one application allowed under the proposed exemption. Treatment period is from April 15 through July 15, 1988. For additional detail, please see attached label.

100.4 Target Organisms

Target organisms are broadleaf signalgrass, large crabgrass, barnyardgrass, cocklebur, common purslane, lambs-quarter, and prickly sida.

101 Hazard Assessment

101.1 Discussion

The state of Louisiana is requesting an emergency exemption for the use of Command herbicide to control annual grasses and broadleaf weeds in sweet potatoes. Proposed maximum application rate is 3 pints (1.5 lb ai) per acre, with one application allowed. Exemption period is April 15 through July 15, 1988.

This request is for use on 15,000 acres in the following parishes: Avoyelles, Bienville, Evangeline, Franklin, Grant, Morehouse, Rapides, St. Landry, St. Martin, West Carroll, and West Feliciana.

Command herbicide is currently registered for use on soybeans, which are grown on approximately 3 million acres in Louisiana.

101.2 Likelihood of Adverse Effects on Nontarget Organisms

Terrestrial Organisms

Data previously reviewed in EEB indicate that Command is practically nontoxic to birds on both an acute oral basis and a dietary basis. The available data on rats suggest that the chemical also has a low mammalian acute toxicity. Thus, significant hazards to populations of nontarget terrestrial organisms are not anticipated from the proposed use.

No data have been reviewed on the toxicity of Command to honey bees. However, based on the fact that the proposed sweet potato use represents a low exposure situation for honey bees, no significant bee hazard is expected.

Aquatic Organisms

Data previously reviewed in EEB indicate that Command is slightly toxic to freshwater fish (bluegill $LC_{50} = 34$ mg/L, rainbow trout $LC_{50} = 19$ mg/L) and moderately toxic to aquatic invertebrates (daphnid $LC_{50} = 5.2$ mg/L). To assess potential hazard to aquatic organisms, EEB used the scenario developed in the soybean cluster approach. Based on this scenario, the aquatic EEC would be 0.034 ppm at the highest application rate. As this does not exceed 0.01 of the LC_{50} for the most sensitive aquatic organism, hazard to aquatic organisms is not anticipated from the proposed use.

101.3 Endangered Species Considerations

On the basis of the data outlined above, the use of Command at 1.5 lb ai per acre should not result in hazard to nontarget organisms. Thus, use under the proposed emergency exemption is not expected to adversely affect any endangered species.

103 Conclusions

EEB has reviewed the proposed emergency exemption for the use of Command Herbicide in Louisiana. Use under the proposed exemption should not result in hazard to nontarget organisms, including endangered species.

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COMMAND[®] 4EC
Herbicide
For Agricultural and Commercial Use Only
EPA Reg No. 279-3053

FOR DISTRIBUTION AND USE ONLY IN LOUISIANA

FOR USE ONLY IN SWEET POTATOES PURSUANT TO THE APPROVED TERMS OF EMERGENCY EXEMPTION UNDER SECTION 18 OF FIFRA, AS AMENDED. THIS EMERGENCY USE EXPIRES _____ AND ANY USE AFTER THIS DATE WILL BE ILLEGAL.

PEST: Broadleaf Signalgrass, Large Crabgrass, Barnyardgrass, Cocklebur, Common Purslane, Lambsquarter and Prickly Sida

DIRECTIONS FOR USE:

Apply 2-3 pints of Command 4EC per acre. Application can be made pre-plant incorporated or as a surface application post transplanting. Apply before weeds emerge. Apply with ground application equipment. Use a finished spray volume of 10 to 40 gallons of spray per acre.

SPECIAL PRECAUTIONS:

Off-site movement of spray drift or vapors of Command can cause foliar whitening or yellowing of some plants. Prior to making applications, read and strictly follow all precautions and application instructions on this label and on the Federal label.

APPLICATION PRECAUTIONS:

Do not apply Command 4EC Herbicide within 1,500 feet of the areas listed below:

- Towns and Subdivisions
- Commercial Vegetable Production (except sweet corn)
- Commercial Fruit Production
- Commercial Nurseries
- Commercial Greenhouses

Caution must be taken to minimize spray drift as off-site movement can cause foliar whitening or yellowing of plants. Consult the Command Herbicide label for information on the reduction of drift. Prior to making applications, it is recommended that adjacent properties be checked and if desirable plant species are present that spraying within 1,500 feet be avoided. (Refer to the Federal Command label for a listing of susceptible plant species.)

ALL APPLICABLE DIRECTIONS, RESTRICTIONS AND PRECAUTIONS ON THE EPA REGISTERED LABEL ARE TO BE FOLLOWED.

DO NOT USE THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF PESTICIDE APPLICATION.

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