

US EPA ARCHIVE DOCUMENT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

CONFIDENTIAL RECORD
HEALTH EFFECTS DIVISION
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Date: May 8, 2000

MEMORANDUM

Subject: **PP #7E04920.** ~~Confidential~~ Attachment for: Human Health Risk Assessment for the Use of the New Safener, Cloquintocet-mexyl, on Wheat.

DP Barcode	D264559	Submission	S533228
PC Code	999999	Case	289237
40 CFR	None (New Inert)	Class	Safener
Trade Name	See Confidential Appendix		

From: Anna Lowit, Risk Assessor *Anna Lowit 5/10/2000*
 Nancy Dodd, Chemist *Nancy Dodd 5/15/00*
 Stanley Gross, Toxicologist *Stanley Gross 5/15/00*
 Jack Arthur, Occupational Exposure *Jack Arthur 5/16/00*
 Registration Action Branch 3
 Health Effects Division (7509C)

Through: Steve Dapson, Branch Senior Scientist *Stephen C. Dapson 05/12/2000*
 Registration Action Branch 3
 Health Effects Division (7509C)

To: Treva Alston/Kerry Leifer
 PM Team 05
 Registration Division (7505C)

The Health Effects Division (HED) has conducted a human health risk assessment for cloquintocet-mexyl for the purpose of making a tolerance eligibility decision for use on wheat as requested by Novartis Crop Protection, Inc, the petitioner. This document is the confidential appendix to this risk assessment. Novartis Crop Protection, Inc has submitted a petition (PP#7E04920) proposing to establish permanent tolerances for residues of cloquintocet-mexyl (acetic acid, [(5-chloro-8-quinolinyl)oxy]-, 1-methylhexyl ester) in/on wheat. Cloquintocet-mexyl is the safener in the formulation described in the following confidential appendix.

~~CONFIDENTIAL~~ APPENDIX to D257181/D264559

Formulation

Discover™ Herbicide is an emulsifiable concentrate containing 5.6% cloquintocet-mexyl safener, 22.3% clodinafop-propargyl active ingredient (ai), and 72.1% inerts. The formulation contains 0.5 lb/gal of the cloquintocet-mexyl safener and 2 lb/gal of clodinafop-propargyl ai.

Proposed Use on Wheat

The application rate is 3.2 - 4.0 fl oz Discover™ Herbicide/A (0.01-0.02 lb CGA-185072 safener/A) with 10.2 - 12.8 oz/A of DSV Adjuvant, depending on the weed to be controlled.

Nature of the Residue in Plants

MRID 44387457: The application rate was 48.5 g CGA-185072/ha (0.04 lb safener/A; 2X) in 500 liters water/ha (53 gal water/A). The formulation was a 50 EC formulation containing clodinafop-propargyl at approximately twice the concentration of CGA-185072.

Magnitude of the Residue

US studies (MRID 44755303): The 1X rate is 28.33 g CGA-184927/A (0.06 lb ai/A) and 7.1 g CGA-185072/A (0.02 lb safener/A).

Canadian studies: The application rate was 80 g CGA-184927/ha (0.07 lb ai/A; 1.2X) and 20 g CGA-185072/ha (0.02 lb safener/A; 1X).

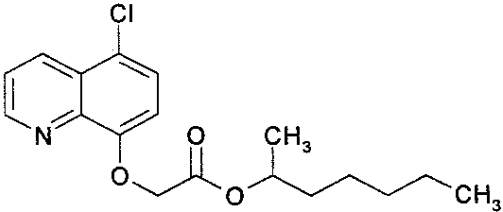
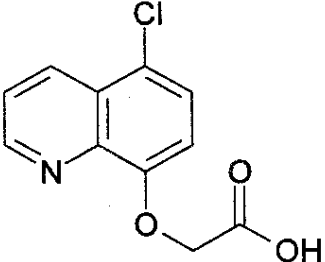
Processing Studies

MRID 44755303: The 1X rate is 28.33 g CGA-184927/A (0.06 lb ai/A) and 7.1 g CGA-185072/A (0.02 lb safener/A).

Rotational Crops

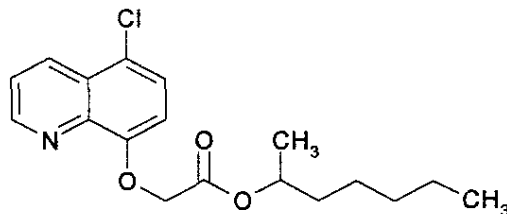
MRID 44387454: The application rate was 48.5 g CGA-185072/ha (0.04 lb safener/A; 2X) to plot 4A (6 .lllm²) and 47.3 g CGA-185072/ha (0.04 lb safener/A) to plot 4B (4 m²).

ATTACHMENT 1.1

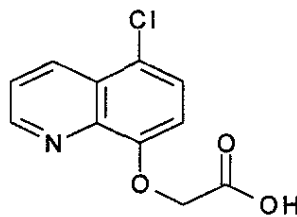
Table 1.1. Names and Structures of Cloquintocet-mexyl and its Metabolite	
cloquintocet-mexyl CGA-185072 acetic acid, [(5-chloro-8-quinolinyl)oxy]-, 1-methylhexyl ester	 <chem>CCCCC(C)OC(=O)COc1ccc(Cl)c2c1ncccc2</chem>
5-chloro-8-quinolinoxyacetic acid CGA-153433	 <chem>OC(=O)COc1ccc(Cl)c2c1ncccc2</chem>

ATTACHMENT 1.3

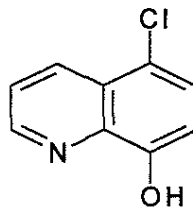
Figure 1. Proposed Wheat, Goat, and Hen Metabolism Pathway of Cloquintocet-mexyl



CGA-185072



CGA-153433



C18469
(hypothetical metabolite)



13544

003547

Chemical:	Inert ingredient undetermined
PC Code:	999999
HED File Code	14000 Risk Reviews
Memo Date:	05/08/2000
File ID:	DPD264559
Accession Number:	412-01-0123

HED Records Reference Center
03/20/2001