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Shaughnessy No.: 032201

Date out of EAB: DEC | 7 1987

To:

Richard Mountfort

Product Manager 23

Registration Division (TS 767C)

From:

Therese Dougherty, Chief

Environmental Chemistry Review Section #1

Exposure Assessment Branch

Hazard Evaluation Division (TS 769C)

Thru: Paul F. Schuda, Chief Exposure Assessment Branch/HED (TS-769C)
Attached, please find the EAB review of
Reg./File #_ 239-2505
Chemical Name: Diquat Dibromide
Type Product: Herbicide
Company Name: Chevron Chemical Company
Purpose: Responses to registration standard: Glove permiability, spray
drift and questions on the soil dissipation study sampling scheme
Date Received: 3/12/87 9/16/87 Action Code: 660
Date Completed: 12/14/87 EAB # (a): 700150,70320,70957,
Monitoring Study Requested: Total Reviewing Time: 2.0 days (Fate Only)
Monitoring Study Volunteered:
Foological Effects Branch

Residue Chemistry Branch

\_\_\_\_\_ Toxicology Branch

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1. CHEMICAL: Common Name: Diquat

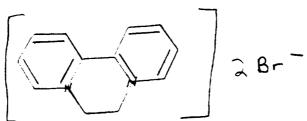
Chemical Name: 6,7-dihydrodipyrido (1,2-a:2', 1'-c) pyrazidiinium

dibromide

Trade Name: Diquat Dibromide

Submitter: Chevron Chemical Company

Structure:



- See individual study DER's for specifics. 2. TEST MATERIAL:
- 3. STUDY /ACTION TYPE: Responses to registration standard: Glove permiability Spray drift and questions on field dissipation study.

## 4. STUDY IDENTIFICATION:

All studies submitted by: Chevron Chemical Company, Richmond California

Iwamoto, R.H. 1987. Permiability of protective gear. Submitted in support of registration of Ortho Diquat concentrate.

Akesson, N.B. N. Raubach and R.E. Cowden. 1986. Diquat droplet size spectrum study. UC-Davis study #8700514. Submitted by Chevron Chemical Co. to fulfill registration standard requirements

Akesson, N.B. 1986. Field tests for application of diquat by aircraft UC-Davis study #8700442. Submitted by Chevron Chemical Co. to fulfill Registration standard requirement.

5. ASSEMBLED AND ENVIRONMENTAL FATE DATA REVIEWED BY

Paul Mastradone, Ph.D

Signature:

Chemist

EAB/HED/OPP

ENVIRONMENTAL FATE REVIEW APPROVED BY:

Therese Doughery, Chief Signature: Missing

ECRS#1 EAB/HED/OPP

### 7. CONCLUSIONS:

- A. This review contains several data submissions sent to the exposure assessment Branch for review. Because reviews from several sections and diciplines were combined on the Registration Review Data Record forms, this 12 point summary form combines these study reviews and a recent submission regmarding a soil dissipation study to aid in final tracking of these submissions. Individual 12 point summary sheets accompany the spray drift and glove permiability studies. Confusions for these are found in the individual reviews.
- B. EAB concurs with the registrant's request to limit the soil sampling depths in the soil dissipation studies with diquat as noted in the appended letter. This concurrence was conveyed from Dr. Holst to Mr. J. C. White on August 8, 1987.
- C. Reentry questions should be resubmitted to EAB as a separate review Similarly, future data on spray drift and protective clothing should be separated from environmental fate data as the reviewers for these items are in separate sections of EAB.

### 8. RECOMMENDATIONS:

- A. The individual recommendations for the spray drift data and the glove permiability are noted in the individual reviews.
- B. EAB recommends that the registrant proceed with sampling as proposed in the appended letter.
- C. EAB recommends that future reviews for the various sections of the branch be forwarded as such. This will aid in tracking and determining whether all reviews are forwarded to appropriate reviewers.
- D. Reentry data included in this package should be submitted to EAB as a separate review item.

#### 9. BACKGROUND:

A. The data reviewed and the soil sampling scheme for the soil dissipation study discussed in these reviews is in response to the registration standard for diquat.

# 10. DISCUSSION OF INDIVIDUAL STUDIES:

See individual DER's

# 11. COMPLETION OF ONF LINER:

One liner not updated at this time.

### 12. CBI APPENDIX:

No CBI inclinded in these reviews.