

4/9/74

ENVIRONMENTAL CHEMISTRY EVALUATION OF Diquat dibromide
[6,7-dihydrodipyrido(1,2-a:2';1'-c) pyrazinedirum dibromide]
PP4G1470

Submitted by Chevron Chemical Co. 1/29/74

I. INTRODUCTION

1. Applicant requests a temporary permit for the use of diquat dibromide on potatoes as a harvest aid desiccant, with a proposed temporary tolerance of 0.2 ppm diquat calculated as the cation.

II. DIRECTIONS FOR USE

For Desiccation of Potato Vines prior to harvest. Use 1-2 pts (0.25-0.50 lbs cation) per acre in 50-100 gallons of water with ground equipment. Use 2 pts rate where vine growth is vigorous or split applications of 1 pt. at least 5 days apart.

Do not use when the potatoes are to be stored for consumption or to be used as seed as this may result in tuber decomposition and failure of seed pieces to germinate and grow normally.

III. DISCUSSION OF DATA

No environmental chemistry data submitted. Some old data in files, which shows that diquat is bound to soil and crops do not take up residues from soil. Once bound to soil, diquat may persist for years but not released to plants.

IV. CONCLUSIONS

It is not expected that illegal residues will occur in subsequent.

V. RECOMMENDATIONS

A. We can accept permit for the proposed use of diquat on potatoes.

B. All data reflecting the fate of Diquat and Diquat moieties in the environment should be submitted at time of registration.

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