

US EPA ARCHIVE DOCUMENT

ENVIRONMENTAL SAFETY
REVIEW SUMMARY

12-30-74

106401

J. W. ALEXIMAN (3)
EFFECTIVE
REVIEW SUMMARY

Chemical trade name Avenge 2A-S

Company AC 84,777

Chemical difenzoquat methyl sulfate

Company Am. Cyan.

Submission TEMP PERMIT 24-EXP PETITION REGISTRATION _____

Date submitted _____ Date received 12/26/74

Type of chemical herbicide

Use for wild oats in wheat

Data submitted for review

Environmental safety:

Mammal LD50 _____

Mammal chronic _____

Fish _____

Bird _____

Shrimp, crab, oyster _____

Other _____

Environmental chemistry (70-15)

Fish residue _____

Other _____

Chemical AvenueConclusions:

1. apply post emergent when wild oats are in 3-5 leaf stage
2. use $2\frac{1}{2}$ -4 pts/A \rightarrow .62-1.0 lbs ai/A
3. can tank mix w/ MCPA (amine or ester) or bromopyrid or both
4. for fall seeded wheat throughout U.S., spring seeded wheat in western U.S. (Ariz, Calif, N.M., Wash, Ore, Idaho, Utah, Nev.), and certain varieties of spring seeded wheat in Mont., N.D., S.D. and Minne.
5. permit asks for 78.5 gal. to cover 1570 acres in 17 states
6. Frank thinks \rightarrow doesn't leach, run off or bind to soil; appears to be persistent (study was not very good); not metabolized by microbes, plant or animals; some photodegradation on glass plates + silica gel but none is apparent on soil
7. Ron will ask for more soil studies (persistence, etc.) + 70-15
8. reproduction studies may be birds and/or fish

Recommendations

by RL

(1) Concur Ney

(2) Depending upon results of 70-15 data, reproductive studies may be required for registration

JRE 12/30/74