

US EPA ARCHIVE DOCUMENT

DATE: April 26, 1978

661A

SUBJECT: Glyphosate, request for tolerance for combined residues for it and its metabolite, aminomethylphosphonic acid, on asparagus at 0.2 ppm (negligible).

FROM: TB/RD

TO: PM Mr. R. Taylor

PP No. 8F2070

Joint venture, of
Monsanto and IR-4

8/21/78

Proposed use of Roundup on asparagus which would provide residues for which tolerance is requested (cf. memo title, above) would involve pre-emergence or post-harvest (after spears have been removed) use at 1 to 1½ quarts of product (formulation containing 39.9% isopropylamine salt of glyphosate). EPA Registration No. of formulation is 524-309.

All supporting TOX data on glyphosate are by reference to previous submissions. These studies include 90-day rat and dog feeding, 2-yr rat and dog feeding, mouse mutagenicity, rabbit teratologic, rat reproduction, and mouse carcinogenicity studies, all from Industrial Bio-test. In addition, there are a hen delayed neurotoxicity and a rat cholinesterase study. For summary of all test results, cf. Mr. R. Landolt's memo, 3/15/77, PP 6F1798. These studies support tolerances.

However, the question of TOX significance of nitrosoglyphosate - occurrence in treated commodities remains unsettled. We do not have CHM memo for this PP; previously, CHM estimated up to 20 ppb nitrosoglyphosate occurring in treated commodities. Petitioner has submitted TOX data on nitrosoglyphosate evaluated by TB as partially satisfactory (in 10/4/77 memo, PP No. 5F1560 and several other PPs). Notably, the projected 18-mo. hamster carcinogenicity study on nitrosoglyphosate had gone only 6 months; it does not, of course, determine carcinogenicity status of nitrosoglyphosate at this early stage.

Conclusion: Essential TOX data on nitrosoglyphosate being incomplete, and recommend for the requested tolerance.

nearly all supporting studies on glyphosate, from IBT, being unverified, we do not
Mary I. Quaife, Ph.D., TB/RD