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

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

May 26, 1983

TO: William L. Burnam, Acting Chief
Toxicology Branch, HED (TS-769)

SUBJECT: Evaluation of the Presence of Neoplasms in the
Thyroid Gland of Rats Treated with Glyphosate

In addition to the already described comments in memorandum of April 15, 1983 by Teeters and Kasza, (see paragraphs 5, page 2, page 3, page 4, paragraph 1, page 5) the following also can be considered relevant to the the oncogenic potential of glyphosate.

1. Difference in incidence only in one species.
(only rat experiment is completed)
2. Difference in incidence only in one sex.
3. Difference in incidence only in high dose.
4. No increased incidence in benign tumors (adenoma) in high dose.
5. No difference in incidence in hyperplasia in all groups. (This lesion can be considered as precursor of neoplasm.)
6. The biological behavior of both benign and malignant tumors probably related to "CALCITONIN" hormone production which lowers the serum calcium level, which counteracts the effects of the parathyroid gland.
7. No difference in latency

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