

Monsanto

A/L
-f
JUN 29 1982

FROM
NAME-LOCATION-PHONE:

S. G. Collins-A3ND-4-3860

DATE : June 28, 1982

cc: G. D. Ingenthron-A3NB

SUBJECT : Agent Orange Q/A

REFERENCE :

TO : R. T. Berendt-E2ND

~~XXXXXXXXXXXXXXXXXXXX E2ND~~

J. R. Condray-G3WG

This updated version of Agent Orange Q/A reflects the additional documents submitted to the court.

Said

Sarah Gainer Collins

:cm

Attachment

C24736

CONFIDENTIAL
SUBJECT TO PROTECTIVE ORDER.

Advisory Committee on Pesticides.

Report on phenoxy acid herbicides. British Ministry of Agriculture, Fisheries and Food, London, 1982.

(Findings - phenoxy acid herbicides are safe to use - occupational exposures in manufacturing should be studied further. Strong critique of the Hardell Swedish studies.)

AMA Council on Scientific Affairs.

Health effects of Agent Orange and dioxin contaminants. Jour. Amer. Med. Assoc. 248:1895-1897, 1982.

(Findings - ongoing studies should be supported and enlarged. Physicians should be alerted to the signs of chloracne and the possible signs of TCDD exposure.)

Coggon, D. and Acheson, E. D.

Do phenoxy herbicides cause cancer in man? Lancet 1:1057-1059, 1982.

(Findings - a critique of the Swedish studies - the answer is "no.")

Donovan, J., et al.

Case-control study of congenital anomalies and Vietnam service. Report to the Minister for Veterans' Affairs, Australian Government Publishing Service, Canberra, 1983.

(Findings - no problems.)

Eriksson, M., et al.

Soft tissue sarcomas and exposure to chemical substances: a case-referent study. Brit. Jour. Ind. Med. 38:27-33, 1981.

(Findings - same as Hardell study but in southern Sweden.)

Hardell, L., et al.

Malignant lymphoma and exposure to chemicals, especially organic solvents, chlorophenols and phenoxy acids: a case-control study. Brit. Jour. Cancer 43:169, 1981.

(Findings - excess lymphomas related to phenoxy herbicides - in Sweden again.)

CONFIDENTIAL
SUBJECT TO PROTECTIVE ORDER.

C25027

Hardell, L. and Sandstrom, A.

Case-control study: Soft tissue sarcomas and exposure to phenoxyacetic acids or chlorophenols. Brit. Jour. Cancer 39:711, 1979.

(Findings - the first Swedish study - excess mortality, in northern Sweden.)

Haups, M. K., et al.

The health effects of herbicide 2,4,5 T. American Council on Science and Health, New York, 1981.

(Findings - 2,4,5 T should not be banned. Use should be monitored to minimize unnecessary exposure.)

Hobson, L. B.

Epidemiology of soft tissue sarcoma and related human research. U.S. Veterans' Administration, Washington, D.C., 1983.

(Findings - at best the verdict is "not proven" in relation to phenoxy herbicides.)

Hogstedt, C. and Westerlund, B.

Cohort study of mortality rates of forestry workers with and without exposure to phenoxy compounds. (In Swedish) Lakartidningen 77:1828-1830, 1980.

(Findings - no soft tissue sarcomas or lymphomas in exposed persons.)

Hunter, H. C. D., et al.

A report on 2,4 D, 2,4,5 T and Human Health. Queensland, Australia, 1981.

(Findings - The use of 2,4 D and 2,4,5 T by approved methods for approved purposes should be continued.)

May, G.

Tetrachlorodibenzodioxin: A survey of subjects ten years after exposure. Brit. Jour. Ind. Med. 39:128-135, 1982.

(Findings - half the subjects who got chloracne still had it - no other abnormalities.)

CONFIDENTIAL

SUBJECT TO PROTECTIVE ORDER.

C25028

Reggiani, G.

Acute human exposure to TCDD in Seveso, Italy.
Jour. Tox. Env. Health 6:27-43, 1980.

(Findings - no abnormalities in people who suffered injuries
in the 1976 explosion.)

Riihimaki, V., et al.

Mortality of 2,4-dichlorophenoxyacetic acid and
2,4,5-trichlorophenoxyacetic acid herbicide applicators in
Finland. Scand. Jour. Work Env. and Health 8:37-42, 1982.

(Findings - no unusual distribution of cancers, but cohort
was small.)

Smith, A. H., et al.

Do agricultural chemicals cause soft tissue sarcoma? Initial
findings of a case-control study in New Zealand. Comm.
Health Studies 6:114-119, 1982.

(Findings - no excess in forestry and agricultural workers -
good critique of Hardell's Swedish studies.)

Smith A. H., et al.

Congenital defects and miscarriages among New Zealand 2,4,5 T
sprayers. Arch. Env. Health 37:197-200, 1982.

(Findings - no excess.)

Thiess, A. M., Frentzel-Beyme, R., Link, R.

Mortality study of persons exposed to dioxin in a
trichlorophenol-process accident that occurred in the BASF AG
on November 17, 1953. Amer. Jour. Ind. Med. 3:179-189, 1982.

(Findings - excess stomach cancer based on three deaths.)

Townsend, J. D., Bodner, K. M., Van Peenen, P. F. D., Olson, R. D.
Survey of reproductive events of wives of employees exposed
to chlorinated dioxins. Amer. Jour. Epid. 115:695-711, 1982.

(Findings - no reproductive problems.)

Zack, J., Gaffey, W.

A mortality study of workers employed at the Monsanto Company
plant in Nitro, West Virginia. Unpublished report, 1981.

(Findings - no unusual mortality pattern in workers exposed
to 2,4,5 T compared with unexposed workers.)

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C25029

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(Findings - no unusual mortality pattern in workers exposed
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Zack, J. and Suskind, R.

The mortality analysis of employees engaged in the
manufacture of 2,4,5 trichlorophenoxy-acetic acid.
Jour. Occ. Med 22:11-14, 1980.

(Findings - no excess mortality.)

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C25030