

Monsanto

FROM
(NAME-LOCATION-PHONE) S. G. Collins - A3ND - 4-3860

DATE : June 3, 1982

cc. J. R. Condray
G. D. Ingenthron

SUBJECT :

REFERENCE :

TO : R. T. Berendt - E2ND
T. M. Bistline - E2NJ

Attached is a Q/A on Agent Orange. May I have your comments please.

Sarah

Sarah Gainer Collins

:cm

Attachment

Tom,

I'm sending over the article I found in Monsanto Magazine, Oct. '62.

0011579-F

CONFIDENTIAL

6-3-82

Q/A AGENT ORANGE

1. Q. A GOVERNMENT DOCUMENT SAYS THAT A SAMPLE TAKEN FROM THE AGENT ORANGE SUPPLIED BY MONSANTO WAS HIGHLY CONTAMINATED WITH DIOXIN. IS THIS CORRECT?

A. We are aware of one government document that ~~shows numerical ranges for individual samples from various Agent Orange~~ *purports to show* ~~various producers, including a Monsanto product.~~ *from*

2. Q. WHAT IS MONSANTO'S OPINION OF THE DOCUMENT?

see attachment
A. ~~We don't know what the samples or numbers represent. We don't know how the samples were taken, how they were analyzed, the protocol followed or whether an individual sample was representative of the product made. Therefore, it is difficult to draw an overall conclusion.~~

3. Q. DOESN'T THE DOCUMENT SHOW THAT THE AGENT ORANGE USED IN VIETNAM WAS HIGHLY TOXIC AND CONTAMINATED WITH DIOXIN?

see attachment
A. ~~We don't know what the dioxins numbers represent because we don't know what dioxins were found. There are over 75 isomers or members of the dioxin family and only one, 2,3,7,8-Tetra-chlorodibenzo-p-dioxin or TCDD is the isomer regulated by the government because of its toxicity. The analytical techniques to isolate TCDD were not developed until 1979. The government document is dated around 1977 and does not break down the dioxin numbers into specific isomers.~~

4. Q. DID MONSANTO KNOW ITS PRODUCT WAS CONTAMINATED WITH DIOXINS?

see attachment
A. ~~Monsanto produced the components of Agent Orange, 2,4,5-T and 2,4-D according to government specifications. The products supplied to the government were of high quality and met or surpassed the specifications. At the time of production, we analyzed the 2,4,5-T component using state-of-the-art technology and did find very low levels of dioxins, that were considered to be inconsequential.~~

This is a matter which is currently the subject of litigation currently pending before the court. Accordingly...

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5. Q. DOESN'T THE FACT DIOXINS WERE FOUND MAKE ANY LEVEL FOUND SIGNIFICANT?

A. ~~No. Even today, there is no conclusive scientific evidence that Agent Orange or the dioxins sometimes found in it are the cause of purported health problems. At the time Monsanto produced the components of Agent Orange for the government, there was no scientific evidence a problem existed nor were we aware of any complaints from our other customers of 2,4,5-T.~~

6. Q. HOW MUCH AGENT ORANGE DID MONSANTO PRODUCE FOR THE GOVERNMENT?

A. Monsanto supplied approximately 3.8 million gallons for the U.S. government between the years 1963 and 1969.

7. Q. DOES MONSANTO STILL PRODUCE EITHER 2,4,5-T or 2,4-D?

A. No. We got out of those businesses in 1970 for economic reasons.

As reflected in documents which we recently filed with the Court,

5. *Same answer as to 4. General comment on the health effects of exposure to Agent Orange should track our general statement.*