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Info Re Answers To Interrogatories
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11/25/95-
Tag "NOT"
responsive
was made for a
subsequent case.

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LITERATURE - SUPPLEME
LISTING

This listing, along with the preceding lists, is
a "best efforts" compilation of available material
on health effects of vinyl chloride available at
Union Carbide Corporation, South Charleston, West
Virginia.

R. N. Wheeler, Jr.

RNWJr./ws
April 11, 1978

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LITERATURE - SUPPLEMENTAL
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R. N. Wheeler, Jr.

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APR 04 1978

R. N. WHEELER, JR.

CHEMICALS AND PLASTICS

1000 ROAD, BOUND BROOK, NEW JERSEY 08806

Division
Location

R. N. Wheeler, Jr.
Chemicals and Plastics
South Charleston, W. Va.

Date

March 28, 1978

Originating Dept.

R&D

Answering letter date

W. B. Ackart
R. J. Cotter
W. F. Gorham
J. E. McKeon
J. W. Whittlesey

s. UCC -
ers

*Special
Interrogatories*

As per the request
answers to certain questions

expanded

Question No. 14 -
by the Bakelite Corporation (I
not any literature references
either polystyrene or styrene

ed
are

Questions No. 10, 15, 16, 17, and 35 - There have been
literally hundreds of studies reported on the toxicity of styrene monomer.
I have included a representative list assembled by Dow Chemical.
The list is in two parts - one of English language articles and another
of Russian articles. It needs to be mentioned that while these articles
were available in the open literature, that does not mean that UCC
personnel were aware of their findings.

I have also asked Dr. C. P. Carpenter of our Mellon labs
to search the Mellon files to determine if UCC has ever funded studies
to obtain toxicity data on either polystyrene or styrene monomer. I have
attached a copy of his letter answering my request.

I have also requested that the Toxline and Cancerline programs
be searched for additional references. It did not uncover any significant
references that are not included in the Dow listing.

I hope this satisfies Hollingshead's request.

R. J. Anderson

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Enc.

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CHEMICALS AND PLASTICS

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J. W. Whittlesey

Subject: Maliko et al. vs. UCC —
Expanded Answers

As per the request of our trial lawyer, I am submitting expanded answers to certain questions on the original questionnaire.

Question No. 14 — Since polystyrene was first developed by the Bakelite Corporation (later acquired by UCC) in 1939, there are not any literature references relating to the toxicity or danger of either polystyrene or styrene monomer.

Questions No. 10, 15, 16, 17, and 35 — There have been literally hundreds of studies reported on the toxicity of styrene monomer. I have included a representative list assembled by Dow Chemical. The list is in two parts — one of English language articles and another of Russian articles. It needs to be mentioned that while these articles were available in the open literature, that does not mean that UCC personnel were aware of their findings.

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Enc.

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CARNEGIE-MELLON INSTITUTE OF RESEARCH

B. J. ANDERSON

MAR 7 1978

CHEMICAL HYGIENE FELLOWSHIP
Bushy Run Laboratories



Mailing Address:
4400 Fifth Avenue
Pittsburgh, Pennsylvania 15213
(412) 327-1020

TO: Dr. R. J. Anderson, BB

DATE: February 27, 1978

CC: Dr. E. F. Cox, CHF

RE: Polystyrene and Styrene Toxicity Studies

Dear Dr. Anderson:

I find no record of Range Finding (RF) Toxicity Studies on Polystyrene in our files. RF studies include: LD50s for rats by the peroral route and by inhalation; an LD50 for rabbits by skin penetration; irritation to rabbit skin and eyes.

These data, in part, are available for styrene as summarized below:

Single Oral Dose to Female Rats (Monthly Rpt. 6-30-52, Rpt. 15-54)
LD50 4.92 (2.98 to 6.46) gm/kg as 10% in "Tergitol" 7

Single Inhalation by Rats (Monthly Rpt. 6-30-52, Rpt. 15-54)
Vapors Saturated at Room Temp., 1 hr killed 0/6, 2 hrs 2/6
Known Concentration, 4 hrs 2000 ppm killed 0/6, 4000 2/6

Primary Irritation, Rabbit Belly
Vesicant Test, Grade 3. Trace of erythema (Monthly Rpt. 6-30-52, Rpt. 15-

Eye Injury from Fluid to Rabbits (Spec. Rpt. 4-40, 1941)
Grade 4 0.1 ml severe, 0.02 ml minor injury

Comfort of Humans (Butadiene Report 1944)
800 ppm was more objectionable and had greater psychomotor effect

Copies of Reports 15-54 dated 7/1/52 and 4/40 dated 5/28/41 are enclosed so that the original record can be viewed. A reprint of the J. of Ind. Hyg. and Toxicol. article in Vol. 26, No. 3, March 1944 is enclosed which describes the human responses to styrene vapor that are mentioned in the summary.

February 28, 1978

We have no recent studies on styrene but the producers have funded a major study through the Manufacturing Chemists Association which is well underway.

Very truly yours;



Charles P. Carpenter, Ph.D.
Advisory Fellow

CPC/jm

Enclosures

UCC
049010

PRIVELEGED

DOCUMENT

Bates number 049011 - 049022 has been skipped