

February 14, 1966

File: C-01007

Mr. W. E. McCormick, Manager
Department of Industrial
Hygiene and Toxicology
The B. F. Goodrich Company
500 South Main Street
Akron, Ohio 44318

Dear Bill:

Since we do not manufacture polyvinyl chloride resins, I suppose there was never sufficient interest at Du Pont for anyone to ask us to evaluate the toxicity of vinyl chloride monomer. In any event, we have no toxicity studies on it. Dow would probably be your best source of information.

Sincerely,

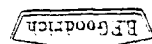
ORIGINAL SIGNED BY
JOHN A. ZAPP, JR.

John A. Zapp, Jr.
Director

JAZ/rln

EID10943

OW S 1010661



The B. F. Goodrich Company

800 SOUTH MAIN STREET - AKRON, OHIO 44316 - PHONE 216-253-1171

February 7, 1966

Dr. John A. Zepp, Jr.
Haskell Laboratory
E. I. DuPont de Nemours & Company
Wilmington 98, Delaware

Dear John:

I am searching for all published and unpublished toxicological information on vinyl chloride, and I think I have the published literature fairly well in hand.

I know that within the past several years the use of vinyl chloride as a propellant for various cosmetic aerosol products has been promoted and it occurred to me that some information might have been developed on vinyl chloride by those companies who would be adversely affected by the entrenchment of vinyl chloride on existing aerosol markets.

Have you developed any information, and if so, what type?

Very truly yours,

W. E. McCormick, Manager
Department of Industrial
Hygiene and Toxicology

WEM/js

RECEIVED

FEB 14 1966

HASKELL LABORATORY

DW S

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file

GILLETTE MEDICAL RESEARCH INSTITUTE
6221 NORTH CAPITOL STREET, N.E.
WASHINGTON, D. C. 20011

FILE: Ethylene, chloro

Vinyl Chloride

November 16, 1964

Dr. J. Wesley Clayton, Jr.
Assistant Director
Haskell Laboratory for Toxicology and
Industrial Medicine
Wilmington, Delaware 19898

Dear Wes:

The Toni Company has decided on a supplier for vinyl chloride. That supplier will be General Chemical.

why? VCL only
"5 for 1000
for ??

I will be requesting, in the next few days, that they initiate the ordering of propellants etc., so that sufficient product and propellant will be available within 30-45 days.

I am sorry that we are so late getting started, but in a way this is an advantage to us here in Washington. We are now in a position to handle most of the animal work. This brings up a good question - Are you still in a position to furnish us with animals?

If you have any questions, or if I've left something out, call me or drop me a line.

Sincerely,

RP

Robert P. Giovacchini, Ph.D.
Director of Medical Evaluations

RPG:rcm

RECEIVED

NOV 17 1964

HASKELL LABORATORY

Vinyl Chloride

EID10945

Vinyl chloride
J

April 9, 1964

D. E. KVALNES
ORGANIC CHEMICALS DEPARTMENT
WILMINGTON

VINYL CHLORIDE: TOXICOLOGICAL STATUS
Ref: Our 'phone conversation of 4/8/64

Summarizing our discussion of April 8, 1964

- (1) I am enclosing a Verifax copy of the Lester, et al., paper on vinyl chloride (AIHA Journal, 24: 265, 1963). You will note that these authors support a Threshold Limit Value of 500 ppm in opposition to Torkelson, et al., (AIHA Journal, 22: 354, 1961) who argue for 100 ppm.
- (2) My recent conversation with Dr. Keith Jacobson (a member of the American Conference of Governmental Industrial Hygienists) indicated that the TLV for vinyl chloride had been the subject for discussion in light of the difference of opinion noted above. What action if any the ACGIH will take in its forthcoming meeting, April 27, 1964, Dr. Jacobson does not know.
- (3) Toxicological data from Dow are respected; and they include, in this case, exposures of rats, rabbits, guinea pigs, and dogs. The work of Lester, Greenberg and Adams involved 5-minute exposures of humans and single and repeated exposures of rats only. In my conversation with V. K. Rowe of Dow, he said that they visualize no problem with vinyl chloride in single, brief human exposures at 500 ppm or even higher, but they recommended and are using 100 ppm as a level below which all workroom air concentrations should fall and 50 ppm as an 8-hour, time-weighted value.

ORIGINAL SIGNED BY
J. WESLEY CLAYTON, Jr.
J. WESLEY CLAYTON, JR.
ASSISTANT DIRECTOR

JWC:bjd
Enclosure

EID10946



E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED
WILMINGTON, DELAWARE

ORGANIC CHEMICALS DEPARTMENT
FREON® PRODUCTS DIVISION

J. W. Clayton - Haskell Lab
R. B. Sangston (3) - Central District

April 3, 1961

*file
copy
C-01007*

AIR MAIL

Mr. Stephen R. Goff
Assistant Director of Research
Toni Company
Division of Gillette Company
456 Merchandise Mart
Chicago 54, Illinois

Dear Steve:

Bob Wright and I appreciated having you let us know where you stand with your evaluation of a vinyl chloride containing propellant for hair sprays. As I told you over the telephone, there was a question in our minds concerning the toxicity of this compound in view of the work done by the Dow Chemical Company. A copy of Dow's article entitled "The Toxicity of Vinyl Chloride as Determined by Repeated Exposure of Laboratory Animals" by Forsham, Oyen and Rowe, is enclosed since you were not sure that you had read this particular report.

If you would care to do so, we would be glad to have Dr. J. W. Clayton of our Haskell Laboratory discuss the broad problem of toxicity of propellants for personal aerosol products. I am sure he would appreciate being able to go over your results on vinyl chloride when you feel the appropriate time has arrived to disclose them to us.

Please let us know if we can help you in any way.

Very truly yours,

B. E. Kvalnes
Manager - Technical

BEZ/eh

Enclosure

*✓ Draw work vinyl chloride HWA Jour.
✓ Lester et al work " " "
✓ Fred Reed's paper on aerosol propellants
✓ our work in 7-112 - 2 reports. Bull A-23?
✓ 7-c paper. TNE.
✓ 7-112 spray work. 9-64*

*✓ Draize - 3 day fold w
Colandra & Kay. "
Guths. "
Hantz. "*

*FREON and combinations of FREON- or F- with numerals are Du Pont's registered trademarks for its fluorocarbons

BETTER THINGS FOR BETTER LIVING ... THROUGH CHEMISTRY

EID10947

DON'T SAY IT--WRITE IT

Vinyl Chloride

To	D. E. KVALNES	Location	ORCHEM	Phone No.	
From	J. F. MORGAN	Location	HASKELL LABORATORY		
Subject	VINYL CHLORIDE			Date	3/10/64

In explanation of a suggested change of Threshold Limit Value for this compound from 500 ppm to 100 ppm is the enclosed paper by Torkelson et al.

Incidentally, The 1963 value remains at 500 ppm with the notation that this level should not be exceeded even briefly during an exposure period.

G-88 REV. 10-62

NO INVESTMENT PAYS BETTER DIVIDENDS THAN SAFETY

EID10948

Ethyl Chloride
Vinyl Chloride

March 4, 1964

D. E. KVALNES
ORGANIC CHEMICALS DEPT.
N-7450

TOXICITY INQUIRY - ETHYL CHLORIDE,
VINYL CHLORIDE, DIMETHYL ETHER

In response to your telephone request to Dr. J. W. Clayton, Jr. I am pleased to furnish the enclosed copies of toxicity information on ethyl chloride and vinyl chloride.

Satisfactory information on dimethyl ether is lacking. Erroneous statements regarding this compound appear in Industrial Hygiene and Toxicology, F. A. Patty, Editor, Second Revised Edition, Interscience Publishers, Volume II, p. 1656 (1963), Henderson and Haggard, Noxious Gases, Reinhold Publishing Corp., New York (1943), page 139, and Dangerous Properties of Industrial Materials, W. Irving Sax, Second Edition, Reinhold Publishing Corp., New York (1963), page 742. Reports of studies of dimethyl ether by W. E. Brown in 1924 and by B. M. Davidson in 1925, both published in Journal of Pharmacology and Experimental Therapeutics, indicate that this compound has anesthetic properties resembling those of diethyl ether. Beyond this, we know nothing of its toxicity.

JAMES F. MORGAN
ASSISTANT TO THE DIRECTOR

JFM:ljm
Enclosures (3)

N-7450 Ethyl Chloride
Dimethyl Ether

EID10949