

Vinyl Resins - General

Full

August 26, 1958

Mr. Herbert A. Cohen  
Research and Development  
Block Drug Company, Inc.  
257 Cornelson Avenue  
Jersey City 2, New Jersey

Re: "Bakelite" Resins EDBC and EDBM  
Vinyl Ethyl Ether Resins

Dear Mr. Cohen:

In reply to your letter of August 12, 1958, we would summarize as follows our toxicity data on vinyl ethyl ether,  $\text{CH}_2=\text{CHOC}_2\text{H}_5$ .

Single oral dose to standard rats  
LD<sub>50</sub> (amount which kills one-half of the animals tested) 8.16 grams per kilogram body weight.

Single skin absorption by rabbits, one-day dam test  
20 milliliters per kilogram killed one of four.

Thirty day inhalation by rats  
4,000 parts per million for eight hours per day had no effect.

Primary irritation, rabbit belly vesicant test  
Undiluted gave no irritation.

Eye injury from fluid to rabbits  
An excess gave a trace of injury.

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Mr. H. A. Chen

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August 26, 1958

Regarding the toxicity of polyvinyl ethyl ether resin we have noted the following:

Repeated dose to rats in the diet  
28 days at 10% in the diet (10.4 grams per  
kilogram per day) had no effect.

Primary irritation, rabbit belly vesicant test  
20% solution in ethyl ether gave only trace of  
capillary injection.

Eye injury to rabbits  
10% solution in deodorized kerosene caused  
no injury.

We hope the above information will be helpful.  
If we may be of further service, do not hesitate to let us  
know.

Very truly yours,

MEDICAL DIRECTOR

Thomas W. Nale, M. D.  
rsb

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# BLOCK DRUG COMPANY INC.

*Manufacturers and Distributors of Drug and Toiletary Preparations*

257 CORNELISON AVE., JERSEY CITY 2, N.J.

HENDERSON 4-3000

August 12, 1958

Dr. Nale  
Union Carbide Chemicals Company  
30 East 42nd Street  
New York 17, New York

Dear Dr. Nale:

With reference to our recent telephone conversation concerning the toxicity of the Bakelite Resins EDEC and EDBM (vinyl ethyl ether resins), we would appreciate any data or information on toxicity studies you have performed on these materials. This will enable us to proceed further with our own work on these resins. We understand that your evaluation of these products was not a complete study, but nevertheless it will give us some basis for determining the advisability of doing additional studies.

We sincerely appreciate your cooperation and look forward to hearing from you at your earliest convenience.

Very truly yours,

BLOCK DRUG COMPANY, INC.



Herbert A. Cohen  
Research and Development

HAC/amj

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INDUSTRIAL MEDICINE &  
TOXICOLOGY DEPARTMENT