

Vinyl Resins - General

Fall

August 26, 1958

Mr. Herbert A. Cohen
Research and Development
Block Drug Company, Inc.
257 Cornelison 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

LD₅₀ (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. E. A. Cohen

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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 EDBC and EDEM (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

Herbert A. Cohen
Research and Development

HAC/amj

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INDUSTRIAL SECTION 8
TOXICOLOGY DEPARTMENT