

Mr. H. F. Robertson
Bakelite Company
New York

March 31, 1954

Mr. J. B. Knowles
Mr. J. W. McLaughlin
Mr. J. A. Fomeroy
Mr. H. L. Burpo

U. S. Fiber and Plastics Corporation
Stirling, New Jersey

Dear Mr. Robertson:

This is in reply to your letter of March twenty-ninth, in which you request information as to the harmful effects that might occur when a customer uses Vinyl Sheetting VU-5940 and VU-5965 for the manufacture of wading pools. In the use of the vinyl sheetings in this manner, we would not expect the various ingredients utilized in the composition of the same to be extracted in harmful amounts by the water in the pool. The major constituents of both these sheetings are of a very low order of toxicity. Also, these films are quite insoluble in water. Therefore, if any of the materials were extracted, we would expect them to be extracted in quantities which would be considered insignificant.

Based upon our experience in the past with reference to these and similar vinyl sheetings, casual contact with the skin of children in the use of the pools would not be expected to produce skin irritation or sensitization.

Very truly yours,

MEDICAL DIRECTOR
INDUSTRIAL MEDICAL AND TOXICOLOGY DEPARTMENT

Thos. W. Hale, M. D.

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FOR INTERNAL CORRESPONDENCE

BAKELITE COMPANY

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30 EAST 42nd STREET, NEW YORK 17, NEW YORK

To (Name) Dr. T. W. Nale
Company Industrial Toxicology Department
Location Room 203-300 Madison

Date March 29, 1954
Originating Dept. New Product Engineering Department
Answering letter date

Copy to Mr. J. B. Knowles-1103
Mr. J. W. McLaughlin-1103
Mr. J. A. Pomeroy-9 E. 41
Mr. H. L. Burpo-Clifton

Subject U. S. Fiber & Plastics Corporation
Stirling, N. J.

Dear Dr. Nale:

As indicated in Mr. Pomeroy's letter of March 23rd, subject company has requested us to supply them with information on the toxicity of materials that could be extracted from the vinyl sheeting used for making wading pools. The two products used by the customer are VU-5940 and VU-5965. The formulations of these sheetings are as follows:

<u>VU-5940</u>	VYNW	63.5%
	DOP	35.0
	D-22	1.5
	Calcium Stearate	0.02

In the case of colored materials, some Deenax is also added.

<u>VU-5965</u>	VYNW	58.7%
	DOP	38.0
	BCWL	2.0
	Stearic Acid	0.3
	Antimony Oxide	1.0

The customer would like a statement from us that the sheetings will not cause dermatitis when in casual contact with the skin of children using the pools as well as a statement from us regarding the toxicity of the water inside of the pool as a result of its extracting toxic ingredients from the compounds. We have, of course, not run extraction tests on these formulations. As you know, the volume of liquid to surface in a wading or swimming pool would be great. Because of the volume of water and the low solubility of most materials in water, we would anticipate that the concentration of materials extracted would be so low as to be insignificant. The customer apparently believes the same thing but only wants our opinions in writing so that he will have them available in case some of his customers inquire in the matter. Accordingly, any general statement that you would care to make for transmittal to U. S. Fiber & Plastics would be much appreciated.

I am very truly,

H. N. Robertson

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TOXICOLOGY DEPARTMENT

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