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February 2, 1950

American Cystoscope Co.
1241 Lafayette Ave.
Bronx 59, N. Y.

Mr. F. J. Wallace

Gentlemen:

This is to confirm our recent telephone conversation during which we discussed tubing extruded from our "Vinylite" elastomeric extrusion compounds VG-1911 Clear 01 and VG-1916 Clear 01.

As the writer promised, we are enclosing a data sheet covering the physical properties of these materials which we believe are self-explanatory. As to chemical resistance these compounds are adversely affected by chlorinated hydrocarbons, ketones, esters and some organic acids. They have exceptional resistance to alkalies, oxidizing agents and most inorganic acids, as well as water, alcohol and aliphatic hydrocarbons.

Since speaking with you I have checked further into the acute and subacute toxicity of DOP (di 2-ethylhexyl phthalate) plasticizer which is used in VG-1911 and VG-1916. Also, on Monsanto "Santicizer" plasticizer B-16 (butyl phthalyl butyl glycolate) which is allegedly non-toxic. According to the LD-50 on rats subjected to single oral doses of these two plasticizers, the DOP is of a much lower order of acute toxicity than B-16. As you may note from the following test data, it takes approximately twice as much DOP as B-16 to kill the required number of the rats tested.

Bliss Method
LD-50 Single Oral Dose On Wistar Strain Albino Rats

DOP (dioctyl phthalate or di 2-ethylhexyl phthalate)	30.6 gms/kg.
B-16 (butyl phthalyl butyl glycolate)	14.62 gms/kg. wt.

As to the comparative loss of plasticizer in water, we offer the following data, which we feel illustrates the superiority of the DOP plasticized material over one plasticized with B-16.

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	% Plasticizer	% Plasticizer Lost in 10 Days From 0.004" Film In Water At 25° C.
DOP	35	0.1
B-16	35	1.4

For your future reference, we are enclosing copies of our publications "Behavior Of Plasticizers in Vinylite Vinyl Chloride Vinyl Acetate Resins" and "Acute And Subacute Toxicity Of Di (2-Ethylhexyl) Phthalate". We hope that the above information proves helpful in your evaluation of plasticized vinyl tubing, and that you will let us hear from you if we can be of further service.

Very truly yours,

Technical Representative
EXTRUSION AND MOLDING MATERIALS
THERMOPLASTICS DEPARTMENT

WEPeterson:GU
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