

Dr. M. B. VerNooy
Dr. W. B. Ackart

November 13, 1967

Medical

Dr. J. M. Whelan
Dr. C. E. Colwell

I have reviewed the formulations of QNDA-9096, VND-9322 and QNDC-9976, all of which are candidates for injection molded steering wheels.

None of the three formulations contain sensitizers or irritants. I think any of the three would be acceptable as materials for steering wheels.

C. U. Dernehl, M.D.
Associate Medical Director

CUD/ed

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INTERNAL C RRESP NDENCE

PLASTICS DIVISION

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To (Name) Dr. C. U. Dernehl
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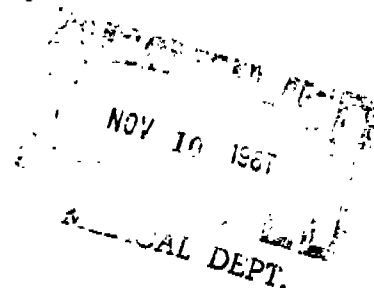
Date November 6, 1967

Originating Dept. Polymers R & D

Answering letter date

Copy to Dr. J. M. Whelan - BB
 Dr. C. E. Colwell - Tarrytown

Subject



We have received two similar requests for recommendations involving polyvinyl chloride formulations for injection molding automobile steering wheels.

One has come to Bound Brook from our customer "Swedish Crucible" who will supply Chrysler Corporation. We have three potential PVC compounds which could be used, all based on our QYTQ-7 PVC resin. This is a "prior sanctioned" resin which we use in food contact applications. The formulations of our candidates are as follows:

QNDA-9096

QYTQ-7	43.7%	
Flexol DOP	36.0	di (2-ethyl hexyl) phthalate
Flexol EPO	3.0	
Vanstay RRE	2.0	Ba/cd/zr phenate + chelator
Stearic Acid	0.3	
Atomite	15.0	Calcium carbonate filler
	<u>100.0%</u>	

VND-9322

QYTQ-7	48.5%	
Flexol DOP	33.0	
Tribase	2.0	Tribasic lead sulfat , oiled
Calcium Stearate	1.0	
Atomite	15.0	
Mineral Oil	0.5	
	<u>100.0%</u>	

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QNDC-9976

QYTQ-7	55.80%	
Flexol DOP	25.60	
Flexol EPO	3.00	
Mark LL	1.50	Ba/cd phenate
Mark C	0.50	Phosphite chelator
Stearic Acid	0.20	
Mineral Oil	0.25	
Purecal "O"	6.50	Precipitated calcium carbonate filler
Flexol 10-10	6.40	Diisodecyl phthalat
Bisphenol A	0.25	

Almost simultaneously a request came to Tarrytown for recommended PVC resins and Flexol plasticizers to be used for an injection molded automobile steering wheel. The resin of choice would be QYTQ-7 and the preferred plasticizers would be Flexol DOP, Flexol 1010 and Flexol EPO.

We would appreciate your comments regarding use of these products in steering wheels with respect to possible skin reaction from long-term contact. Your opinion will probably be passed on to our respective customers.

M. B. Ver Nooy
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