



E. I. DU PONT DE NEMOURS & COMPANY

INCORPORATED

FABRICS & FINISHES DEPARTMENT

U. W. Gray
F. D. Sparre -Legal Dept.
P. E. Smith, Jr. -Legal Dept.
W. Weidemann, Jr.

Wilmington, Delaware
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Dr. J. W. CLAYTON, Jr.
Haskell Laboratory

ML-620

ORAL TOXICITY - TUBE COLORANTS
RE: MEDICAL RESEARCH PROJECT MR-620

Confirming our 8/13 conversation and in connection with the Federal Hazardous Substances Labeling Act, it is requested that oral toxicity tests (as specified by regulation to the act) be conducted on five lead containing colorants. The products are normally packaged in collapsible tubes in $\frac{1}{4}$, 1, and 4 ounce sizes and, obviously, this limits the amount of lead available from a single tube. On this basis, we may find that the small tube sizes are not toxic under the law even if bulk material is found to be toxic.

The products involved and the calculated weight of lead per fluid ounce of colorant, based on existing manufacturing formulas and raw material specifications, are shown below:

Code	Name	Pounds per Gallon	Grams Pb per fl.oz.
3380 - 632-774	Custom Tinting Color #12 Orange Vermilion✓	17.56	22.6
3381 - 632-775	" " " #13 Chrome Orange✓	19.38	31.6
3382 - 632-776	" " " #14 Chrome Yellow✓	19.57	32.7
3383 - 632-777	" " " #15 Bright Chartreuse✓	18.90	30.5
3384 - 529-931	" " " #30 Chrome Green✓	16.15	20.4

The Marshall Lab. has been requested to supply complete formulas and samples of the products listed above. If, after examining the compositions, it is obvious that the products are in fact toxic in the amounts available in individual tubes, there will, of course, be no need to conduct the tests.

Haskell Lab. work conducted in connection with this request should be charged to MR-620.

F. T. Johnson
F. T. JOHNSON

JWE

✓ *hardened*

FTJ/mdm

