

CC: C. W. Shay, Wilm.
F. T. Johnson, Wilm.
R. L. Selby, Lab.

File: 3720

Marshall Laboratory
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CONFIDENTIAL

DR. J. W. CLAYTON, JR.
HASKELL LABORATORY

ORAL TOXICITY - TUBE COLORANTS

Re: Medical Research Project MR-620

As requested in F. T. Johnson's letter to you of 8/16/62 we are forwarding one quart each of Nos. 12, 13, 14, 15, and 30 colorants. Attached to this letter are complete formulae for these colorants.

SALES DEVELOPMENT LABORATORY

W. T. Clark
W. T. CLARK

WTC:dk
8/30/62

JTC

RBS

#12 Orange Vermilion
632-774

Code	Description	Weight %
H-156	Dehydrated Castor Oil	11.0
H-481	Polyoxyethylene (5) Sorbitan mono-oleate (100% solids)	9.6
G-12	Soya Lecithin	2.6
H-632	Odorless mineral spirits	2.7
H-200	Hydrocarbon Solvent	5.1
W-73	Surfex - Precipitated calcium carbonate with a rosin coating	9.6
W-622	YE-637-D Molybdate Orange - co - precipitated mixture of lead chromate, lead sulphate, and lead molybdate - 61% lead	59.4
		100.0

#13 Chrome Orange
632-775

Code	Description	Weight %
H-156	(See #12 Orange Vermillion)	5.3
H-481	" " " "	8.1
H-609	Alkyl aryl polyether alcohol (100% solids)	1.0
G-12	Soya Lecithin	3.0
H-200	(See #12 Orange Vermillion)	6.6
H-632	" " " "	3.1
W-679	Y-433-D - C.P. Chrome Yellow - Light A precipitated mixture of 58% lead chromate, 33% lead sulphate, 1% lead carbonate, and 3% misc. compounds.	66.2
W-73	(See #12 Orange Vermillion)	.9
W-622	" " " "	<u>5.8</u>
		100.0

#14 Chrome Yellow
632-776

Code	Description	Weight %
H-156	(See #12 Orange Vermilion)	4.7
H-481	" " " "	7.9
H-609	(See #13 Chrome Orange)	1.1
G-12	(See #12 Orange Vermilion)	3.0
H-200	" " " "	6.8
H-632	" " " "	3.2
W-679	(See #13 Chrome Orange)	<u>73.3</u>
		100.0

#15 Bright Chartreuse

632-777

Code	Description	Weight %
H-156	(See #12 Orange Vermillion)	5.0
H-481	" " " "	7.7
H-609	(See #13 Chrome Orange)	1.4
G-12	(See #12 Orange Vermillion)	3.3
H-200	" " " "	7.3
H-632	" " " "	3.4
W-679	(See #13 Chrome Orange)	<u>71.0</u>
		100.0

#30 Chrome Green
529-931

Code	Description	Weight %
H-156	(See #12 Orange Vermilion)	8.0
H-481	" " " "	6.0
H-609	(See #13 Chrome Orange)	3.0
G-12	(See #12 Orange Vermilion)	4.8
H-200	" " " "	8.7
H-632	" " " "	4.4
W-679	(See #13 Chrome Orange)	55.7
W-73	(See #12 Orange Vermilion)	5.4
W-527	BP-366-D "Ramapo" Blue FR Resinated phthalocyanine blue lake	4.0
		100.0