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NEWARK PLANT
PIGMENT COLOR RESEARCH REPORT

Final Report (Laboratory)

PIGMENT GREEN B
ELIMINATION OF SODIUM BISULFITE

Period Covered JANUARY - APRIL 1951

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NEWARK PLANT

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PIGMENT GREEN B
ELIMINATION OF SODIUM BISULFITE

JANUARY - APRIL 1951

Charge: A-1C-22

SUBMITTED BY: G. GRIMM DATE SUBMITTED: 4/23/51

APPROVED BY : A. A. BRIZZOLARA DATE ISSUED: 5/3/51

INTRODUCTION:

A threatened sodium bisulfite shortage in January caused consideration of the manufacture of Pigment Green B without bisulfite. In the course of this short study, a reasonably satisfactory process was outlined but the product did not equal current standards. Consequently, was of no immediate interest. The bisulfite shortage did not materialize.

SUMMARY AND CONCLUSIONS:

A study of the manufacture of Pigment Green B omitting the bisulfite ester step has shown that a marketable product was obtained by striking a copperas/oxalic acid solution into an alkaline solution of nitroso-B-naphthol. After heat development at the boil and processing in the normal manner, a product was obtained which was yellow, strong (± 20%) and dull when dried and compared by rubout to GT-646-D; or yellow, dull, weak and blue when processed as a pulp and compared in paper coating to GT-76-P. Obviously this product would be of no interest if bisulfite were available; however in the event that bisulfite became unobtainable, the product might be developed into a satisfactory replacement for the current type of Pigment Green B.

The introduction of bisulfite to the alkaline nitroso-B-naphthol solution caused the tinctorial properties to approach those of the orthodox type but at 75% of the normal amount there was a deficiency in intensity when dried and in strength when processed as pulp. At some future date it may be desirable to continue the study.

REFERENCES:

Refer to Notebook 1064 Expts. 43, 44, 45

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