COMPANY CONFIDENTIAL

DATE August 29, 1962

TEST CONCLUSION NO. T.A.-C. 61-684, Parts I & II

OFFICIAL PRODUCT NAME 2-Chloro-4-nitroaniline Paste

PRODUCT CODE NO. 142-160 POUNDS PRODUCT ACTUAL

AREA Azo - Naph. Sect. BUILDING NAME LP Autoclave

TITLE Improve wet-out and extent of diazotization

PREPARED BY: G. B. Roberts

PURPOSE OF TEST: To improve the wet-out, dispersion, and diazotization efficiency of "Lithosol" Acid VT (both presscake and dry) by adding Product BCO* to the water in which the amination mass is drowned. This has not been checked in the laboratory but samples containing Product BCO have been shown to diazotize completely. The resulting pigment has a darker masstone and yellower shade than standard. The Sales Dept. is interested in customer reaction to this product.

RESULTS OF TEST: *or "Alkanol" HCS

Use of either wetting agent gives a product which disperses better in water. The presscake purity is also higher than when no wetting agent was used.

Customer approval was obtained on both products as presscake but users of dry-ground product did not accept the product. The portions which were dried were used by Azo Area.

Lot 19 of VT Presscake was made using "Alkanol" HCS.
Lot 24 of VT Presscake was made using Product BCO.

RECOMMENDATIONS: The Sales Dept. has decided that all future production of "Lithosol" Acid VT Presscake shall be made by drowning into water containing Product BCO. "Alkanol" HCS will not be used.

DISTRIBUTION:

D. R. Baer, Jackson Lab.
Jackson Lab. Library
D. B. Kirk, Ind. Eng. Div.
J. F. Laucius, Azo Lab.
J. T. Linster, Adm. Bldg. (3)
H. Pody, Adm. Bldg.
W. E. Railing, D&C Off.
R. T. Reed, D&C Off. (7)
H. I. Stryker, Adm. Bldg.

std

APPROVED BY: R. E. Franklin 8/30/62
AUTHORIZED BY: R. T. Reed 9-11-62
SUPT., PRODUCTION AREA DATE

H. I. Stryker 8/30/62
SUPT., PROCESS DEPARTMENT DATE

MU-1752-R-4

COMPANY CONFIDENTIAL

DATE August 24, 1961 (Draft)

TEST AUTHORIZATION NO. T.A.-C-61-684

OFFICIAL PRODUCT NAME 2-Chloro-4-nitroaniline Paste

PRODUCT CODE NO. 142-160 POUNDS PRODUCT PROPOSED 1,727

AREA Azo - Naph. Sect. BUILDING NAME LP Autoclave 115

TITLE Improve wet-cut and extent of diazotization

PREPARED BY: G. B. Roberts

RESPONSIBLE FOR TEST AND TEST CONCLUSION: W. Nimphius, G. B. Roberts

PURPOSE OF TEST: See attachment.

STANDARD INVOLVED: C. W. Process for the Manufacture of 2-Chloro-4-nitroaniline approved 4-3-57.

DURATION OF TEST: One charge, two-thirds normal size.

TEST DETAILS: (INCLUDE SAFETY) See attachment.

DISTRIBUTION:

W. W. Ramson, Jackson Lab.
Jackson Lab. Library
D. B. Kirk, Ind. Eng. Div.
J. F. Laucius, Azo Lab.
J. T. Linster, Adm. Bldg. (3)
H. Pody, Adm. Bldg.
W. E. Railing, D&C Off.
R. T. Reed, D&C Off. (7)
H. I. Stryker, Adm. Bldg.

APPROVED BY:

J. F. Laucius 24 Aug 61
DATE

DATE

DATE

AUTHORIZED BY:

H. W. Kirk
SUPERINTENDENT, PROCESS DEPARTMENT
8/24/61
DATE

gtd

R. T. Reed
SUPERINTENDENT, PRODUCTION AREA
8-25-61
DATE

MU-1752-B-R-2

DUP050467923

N33046.01

PURPOSE OF TEST:

To improve the wet-out, dispersion, and diazotization efficiency of "Lithosol" Acid VT (both presscake and dry) by adding "Alkanol" HCS to the water in which the amination mass is drowned. This has not been checked in the laboratory but samples containing "Alkanol" HC added after drowning have been evaluated. Clearer, brighter masstone of pigment results with a yellower shade. The Sales Dept. is interested in customer reaction to the product (letter of R. L. Burnett to H. I. Stryker, 8-15-61).

TEST DETAILS:

Run charge by the process with the following exceptions:

Add 3 lb. of "Alkanol" HCS to the drowning water (about 1,150 gal.) before starting addition (drowning) of amination mass. Make a solution of 7 lb. of "Alkanol" HCS in 10 to 30 gal. of water. When filtration of the drowned mass is started and additional drowning water (about 2,800 gal.) is being added (30-40 minutes required) add about one-seventh of the dilute "Alkanol" HCS solution every five minutes. This manner of addition should give a fairly uniform concentration of wetting agent throughout the drowning.

The product will be evaluated by the Process Dept. as "Lithosol" Acid VT Presscake and "Lithosol" Acid VT (laboratory dried and ground) If these tests are satisfactory, half of the product will be dried and ground and the other half held as presscake. The Sales Dept. will obtain customer evaluation.

DUP050467924

COMPANY CONFIDENTIAL

DATE November 10, 1961

TEST AUTHORIZATION NO. T.A.-C-61-684, Part II

OFFICIAL PRODUCT NAME 2-Chloro-4-nitroaniline Paste

PRODUCT CODE NO. 142-160 POUNDS PRODUCT PROPOSED 2,500

AREA Azo - Naph. Sect. BUILDING NAME LP Autoclave 115

TITLE Improve wet-out and extend of diazotization

PREPARED BY: G. B. Roberts RESPONSIBLE FOR TEST AND TEST CONCLUSION: W. Nimphius, G. B. Roberts

PURPOSE OF TEST: See attachment.

STANDARD INVOLVED: C.W. Process for the Manufacture of 2-Chloro-4-nitroaniline approved 4-3-57.

DURATION OF TEST: One charge.

TEST DETAILS: (INCLUDE SAFETY)

See attachment.

DISTRIBUTION:

W. W. Ranson, Jackson Lab.
Jackson Lab. Library
D. B. Kirk, Ind. Eng. Div.
J. F. Laucius, Azo Lab.
J. T. Lingter, Adm. Bldg. (3)
H. Pody, Adm. Bldg.
W. E. Railing, D&C Off.
R. T. Reed, D&C Off. (7)
H. I. Stryker, Adm. Bldg.

APPROVED BY: J. F. Laucius 13 Nov 61 DATE

DATE

DATE

AUTHORIZED BY: H. I. Stryker SUPERINTENDENT, PROCESS DEPARTMENT 11/13/61 DATE

R. T. Reed SUPERINTENDENT, PRODUCTION AREA 11-15-61. DATE

gtd

MU-1752-B-R-2

DUP050467927

N33046.02

Test Authorization
TA-C-61-684, Part II
2-Chloro-4-nitroaniline Paste

Purpose of Test:

To improve the wet-out, dispersion, and diazotization efficiency of "Lithosol" Acid VT (both press cake and dry) by adding Product BCO to the water in which the amination mass is drowned. This has not been checked in the laboratory but samples containing Product BCO have been shown to diazotize completely. The resulting pigment has a darker masstone and yellower shade than standard. The Sales Dept. is interested in customer reaction to this product.

Test Details:

Run charge by the process with the following exceptions:

Add 3 lb. of Product BCO to the drowning water (about 1,150 gal.) before starting addition (drowning) of amination mass. Make a solution of 7 lb. of Product BCO in 10 to 30 gal. of water. When filtration of the drowned mass is started and additional drowning water (about 2,800 gal.) is being added (30-40 minutes required) add about one-seventh of the dilute Product BCO solution every five minutes. This manner of addition should give a fairly uniform concentration of wetting agent throughout the drowning.

The product will be evaluated by the Process Dept. as "Lithosol" Acid VT Press Cake and "Lithosol" Acid VT (laboratory dried and ground). If these tests are satisfactory, one-fourth of the product will be dried and ground and the remainder held as press cake. The Sales Dept. will obtain customer evaluation.

DUP050467928