CONFIDENTIAL

DATE April 8, 1957

TEST AUTHORIZATION NO. T.A. -C-57-163

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TITLE Spray Drying - Sodium Metanilate

	TECH.	EQUIP.
INSIDE STANDARDS	☐	☐
OUTSIDE STANDARDS	☐	☐

PLANT Chambers Works AREA Azo-Naph BUILDING Azo-183D

PURPOSE OF TEST: To determine whether sodium metanilate can be spray dried satisfactorily and economically.

STANDARD INVOLVED: Chambers Works Process for the Manufacture of Sodium Metanilate, approved May 17, 1948.

DURATION OF TEST: About 500 lbs. of sodium metanilate will be dried during April and possibly another 1,500 lbs. in later months.

TEST DETAILS: (INCLUDE SAFETY) See attached sheet.

PREPARED BY: C. C. Georgiou RESPONSIBLE FOR TEST: M. W. Royles

C. C. G.

APPROVED BY:

DATE	DATE	DATE
DATE	DATE	DATE
DATE		

AUTHORIZED B/s/C. L. Richardson 4-8-57 DATE

/s/ V. R. Hurka 4-8-57 DATE

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MU-1752

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Test Details:
(Include Safety)

1. Start with the following conditions:

Slurry:	35-50% Solids (depending on available starting material)
Temperature of Slurry:	Ambient
Chamber Temperature:	110°C.
Drying Air Temperature:	250°C.
Atomizing Air Temperature:	300°C. (1.5 lbs. of atomizing air per pound of slurry).

2. Dry slurry under the above conditions for about an hour.

3. Follow the instructions described in Exhibit B-2, B-3, B-4 and B-5 for the establishment of optimum conditions, determination of drying rates, product testing and safety precautions as outlined in C.W.P.T.S. Report No. 555-P.

   The initial conditions were established by preliminary spray drying tests in the experimental Bowen Spray Dryer at Unit Process Laboratory.

   Tests at Azo Laboratory have shown that dried sodium metanilate is neither explosive nor flammable under usual conditions.

CCG: nc