

CONFIDENTIAL

DATE April 29, 1957

TEST AUTHORIZATION NO. T.A.-C-57-163,
PART II

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TITLE SPRAY DRYING - SODIUM METANILATE

		TECH.	EQUIP.
PLANT <u>Chambers Works</u> AREA <u>Azo-</u> BUILDING <u>Azo-183A</u>	INSIDE STANDARDS	☐	☐
	OUTSIDE STANDARDS	☐	☐

PURPOSE OF TEST:

STANDARD INVOLVED:

SEE ATTACHMENT.

DURATION OF TEST:

TEST DETAILS:
(INCLUDE SAFETY)

PREPARED BY: C. G. Georgiou RESPONSIBLE FOR TEST: G. Robinson

APPROVED BY:

<u>/s/ V. R. Harka, 4/30/57</u>	DATE	DATE	DATE
<u>/s/ E. B. Armstrong, 4/30/57</u>	DATE	DATE	DATE
_____	DATE		

AUTHORIZED BY: /s/ C. L. Richardson 4/30/57
DATE

PURPOSE OF TEST:

Sodium metanilate, sodium salt, as currently produced for the manufacture of sodium diethyl metanilate, is isolated from solution on a drum dryer at the Naphthalene Sulfonating House. The product is further pan dried at the Azo pan dryers to reduce its moisture content to traces.

Preliminary spray drying tests in the 2-foot Azo spray dryer showed that this product can be spray dried economically with satisfactory quality. The purpose of this test is to spray dry sufficient product in the 3-foot spray dryer for test in the manufacture of sodium diethyl metanilate.

STANDARDS INVOLVED:

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

Test Authorization No. TA-C-57-163, dated April 8, 1957.

DURATION OF TEST:

About 30,000 lbs. of sodium metanilate will be dried during May and June.

TEST DETAILS:
(Include Safety)

1. Start with the following conditions:

Slurry:	50 $\pm$ 5% solids (depending on the available starting material)
Temperature of Slurry:	Ambient
Chamber Temperature:	110°C.
Drying Air Temperature:	350°C.
Atomizing Air Temp.:	350°C.

2. Dry slurry under the above conditions for about one hour and adjust drying conditions if required.
3. Follow 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 2-foot spray dryer at Azo.

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

CCG/bc