



Chuck Gurn

March 11, 1969

Monsanto Company
St. Louis, Illinois

Memo to: W. A. Kuhn
M. A. Terpstra
O. P. DeGarmo
D. W. Jackson
D. C. Armstrong
E. D. Malone
R. L. Fields
I. E. Richardson
WGK Library
Technical Information Center (2)
Record Center
Process Holders

Tentative Amendment "A"

TITLE

Standard Manufacturing Process Description for Crude 2, 4-Dichlorophenol in Department 236 dated November, 1968.

OBJECTIVE

To confirm that cumene phenol is an acceptable substitute for sulfonation phenol now being used.

SUGGESTED CHANGE

To use cumene phenol from Chocolate Bayou as raw material instead of sulfonation phenol..

JUSTIFICATION

Crude 2, 4-Dichlorophenol at the W. G. Krummrich Plant has been made using phenol from the sulfonation process. In approximately two years, sulfonation phenol facilities will probably be retired. A plant test is required to determine the effect of cumene phenol on the process, and if it has any effect on 2, 4-dichlorophenoxy-acetic acid.

DISCUSSION

Laboratory results shows the finished crude 2,4-dichlorophenol to be dark amber rather than light amber. The 2, 4-dichlorophenoxy-acetic acid prepared from cumene 2, 4-DCP in the lab is equivalent to that from sulfonation 2, 4-DCP in appearance, color, odor, yield, quality, and reaction rates. The red color from the cumene 2, 4-DCP remains in the mother liquor stream.

Tentative Amendment "A"

-2-

SAFETY

No change.

QUALITY

Color will be dark amber rather than light amber.

RECOMMENDATION

It is recommended that two plant trials be conducted. A 5 - 10 day run without fractions from Dept. 237 (refined chlorophenols) and a month long trial approximately the last quarter of 1969.

See attached memo.

Prepared by C. P. Gunn
C. P. Gunn

Approved by:

Approved by:

Ma. J. J. J. J. 3/24/69
Div. Resch. Group Date
Leader

R. L. Fields 3/17/69
Production Supervisor Date

Oliver R. J. J. 3/28/69
Research Manager Date

E. M. J. J. 3/24/69
Prod. General Supt. Date

Research Safety Review
Committee

A. E. Leisy
Prod. General Supt. Date
Ag. Division

Ma. J. J. J. J. 3/24/69
Date

D. C. J. J. 3/24/69
Plt. Process Research Date
Group Leader

J. J. J. J. 3/24/69
Date
E. M. J. J. 3/24/69
Date

D. W. J. J. 3/24/69
Gen. Supt. Tech. Services Date

W. A. J. J. 4/2/69
Tech. Prod. Manager Date

K031097