AUG 19 1966

Gulf Oil Corporation

CHEMICALS DEPARTMENT

Petrochemicals Division
1200 Avenue of the Americas
New York, N.Y. 10019

August 16, 1966

Mr. Richard M. Hoover
Intermediates Marketing Dept.
Monsanto, Organic Chemicals Div.
800 North Lindbergh Blvd.
St. Louis, Mo.

Dear Dick,

As I indicated in my July 12, 1966, letter to Dr. Johnson, Gulf agreed to conduct preliminary investigation of our laboratory prepared biphenyl which would be representative of commercially produced material. By copy of this letter, I am forwarding a summary of our laboratory's analysis of subject material. We would appreciate your comments as to the desirability of our product, and if your interest still prevails, we should like to pursue the matter further.

To summarize the details that follow, our material recovered from HAD bottoms contains 98.98% biphenyl, 9 ppm sulfur, low metals content (principally titanium), a melting point of 156° F., and 20 ppm ash. The major impurity, 0.76%, is methylbiphenyl.

TABLE I

Gas Chromatography

Product	Weight %
Biphenyl	98.98
Methylbiphenyl	0.76
Unknown	0.26

TABLE II

Combination of emission and atomic absorption spectroscopy

Metal	ppm
Aluminum	0.4
Boron	0.02
Calcium	-
Chromium	0.08
Copper	0.008
Iron	0.2
Magnesium	0.1
Manganese	0.1
Nickel	0.8
Silicon	3
Titanium	7

DSW 200564

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We are awaiting your early reply on this matter and hope the above information will warrant your preliminary opinions.

Very truly yours,

E J Schweitzer

E. J. Schweitzer

EJS:ch

cc: Dr. W. K. Johnson
Mr. A. D. Gott

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