Monsanto

F. E. Reese/M. C. Throdahl

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Chlorinated By-Products

Messrs. A. W. Andrews
G. L. Bratsch
G. Roush
B. L. Williams

TO : Messrs. E. S. Bauer
H. H. Bible
J. R. Eck
L. Fernandez
[redacted]
R. J. Mahoney

In confirmation of the discussions at Tall Oaks on November 10, we propose to pursue the following program in regard to processes producing chlorinated by-products:

1. Restrict the number of plant sites using chlorine (e.g. 3 to 5) in the U.S.

   Selection of the preferred sites for future projects and the appropriateness of consolidating existing operations must await a better definition of the MCB process and resolution of the economics of electrolysis of HCl. In the interim, no new sites will be opened for chlorination processes. Further, new projects will be installed at sites which clearly already have a major commitment to chlorination processes.

   Mr. G. L. Bratsch will have the responsibility for following this program and working with concerned operating company personnel to develop recommendations as needed.

2. Develop at least one significant chlorination process that uses HCl as feed (oxychlorination).

   MICC will press for early development of the oxychlorination process for monochlorobenzene. Installation of a commercial unit will be considered immediately upon completion of the process development work.

   Dr. B. L. Williams will follow the MICC program and advise if corporate activity in other directions is appropriate to ensure our having an in-house, HCl-consuming proces-

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3. Intensify search for processes that do not use chlorine, if chlorine is not required in the product.

CRD will give high priority to this program, with particular emphasis on routes to phosphorous acid.

Dr. B. L. Williams will be responsible for the program.

4. Get firsthand experience with the best small-scale technology for converting HCl to chlorine (probably Uhde).

Efforts will be pursued to obtain data from operators of commercial Uhde plants for electrolysis of HCl. Installation of a Uhde operation will be evaluated at an existing chlorination site -- either to confirm reported data or to develop reliable commercial information.

Dr. J. R. Fair will assume responsibility for this program, working with appropriate operating company personnel.

5. Get and keep control over incineration of our chlorinated organics.

Current plans for incineration of chlorinated wastes will be reviewed with the operating companies. Appropriate actions will be planned for those areas where we have exposure by reason of lack of control over incineration of by-products. Technical effort in CRD and the operating companies will be initiated to supply any needed know-how in this area.

Mr. G. L. Bratsch will be responsible for execution of this program.

We would appreciate any suggestions or comments you might have in regard to the actions proposed. If we do not hear comments to the contrary, we will plan to proceed as indicated.

F. E. Reese

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M. C. Throdahl

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