Appendixes
Appendix A.—Summary of Topics Considered at Evaluation Meeting During Initial Screen of Premanufacture Notices at the Environmental Protection Agency

I. General Information for PMN Substances
   A. Manufacturing Process and Chemistry
   B. Physical-Chemical Properties
      1. Composition
      2. Physical form (solid, liquid, gel, etc.)
      3. pKa ionization constant
      4. Partition coefficient (affinity for aqueous and organic solvents)
   C. Use Function
      1. Known and potential uses
      2. Production capacity and potential growth
   D. Regulatory Concerns

II. Assessments
   A. Structural Activity Team Report
   B. Health Hazards
      1. Metabolism, uptake, excretion
      2. Acute toxicity
         a. L.D.50 (amount of chemical necessary to kill 50 percent of test animals)
         b. Other acute effects
      3. Carcinogenicity, mutagenicity, teratogenicity
      4. Other chronic effects
   C. Ecological Hazards
      1. Effects on microbes
      2. Effects on invertebrates
      3. Effects on plants
      4. Effects on fish
      5. Effects on mammals and birds
      6. Effects on ecosystem process
   D. Worker/Consumer Exposure
      1. Worker exposure from manufacture
      2. Worker exposure from processing
      3. Consumer exposure
   E. Environmental Release
      1. Release from manufacture
      2. Release from processing
      3. Release from use
      4. Release from disposal
   F. Environmental Fate
      1. Persistence
         a. Degradation
         b. Breakdown products
   G. Non-Risk Factors
      1. Company size and characteristics
      2. Substitutes (for the new chemical and old chemicals that the new chemical may substitute for)
      3. Potential new uses
      4. Financial effect of the PMN chemical on company
      5. Benefits to society

III. Summary of Outstanding Problems of Scientific/Technical Concerns
   A. Most Serious Problem
      1. Health hazard
      2. Ecological hazard
      3. Worker/consumer exposure
      4. Environmental release
      5. Environmental fate
      6. Non-risk factor

IV. Related Substances
   B. Solvents (used in manufacture and processing)
   C. Catalysts (used in manufacture and processing)
   D. Byproducts (from manufacture and processing)

V. Priority Problem in Profile