



DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE  
WASHINGTON, D. C. 20492

PHS 20-136

Dr. Robert A. Kehoe  
Director, Research Laboratory  
College of Medicine  
University of Connecticut  
Farmington, CT 06030

Dear Dr. Kehoe:

Members of the staff have discussed the use of 1,1,1-trichloro-2,2,2-trifluoroethane (TCE) as a substitute for 1,1,1-trichloroethane (TCL) in the manufacture of certain products to be marketed by a local or foreign company. As you know, the Public Health Service has no legal authority to regulate the use of such substances in gasoline. We believe that the decision to use TCE as a substitute for TCL in the manufacture of certain products should be made by the companies concerned after they have weighed the hazards which may result to the general public and to the workers in the manufacture of TCE and the blending and use of TCE in the manufacture and retail marketing of gasoline. We believe that representatives of the companies should consult with the State health authorities in the State of Connecticut.

If the decision is made to use TCE as a gasoline additive, we would suggest that the companies conduct studies that would demonstrate its acceptability from the public health viewpoint. Should it develop that TCE cannot be manufactured and used in gasoline without undue risk to the workers or to the public, the Public Health Service would recommend that its use be discontinued.

In the manufacture and blending of TCE, we would suggest that the same hygienic standards applicable to TCL be used.

Should the companies concerned proceed with the manufacture of TCE for TCL, we suggest that liaison be established between the companies and the Public Health Service with the understanding that the Public Health Service will have access to all clinical, epidemiological and other pertinent data relating to any studies undertaken.

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We also suggest that the companies present to the Public Health Service one year after initiating the substitution a report on the impact of TML on the contamination of the atmosphere in a major metropolitan center as well as clinical and environmental data demonstrating the safety of controls in the manufacture, use and handling of TML and of gasolines containing this compound.

Sincerely yours,

Assistant Surgeon General  
Chief, Bureau of State Services

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