

The writer regards them as essential requirements for the maintenance of a reasonable safety in the handling of cans of Ethyl Fluid. It should be said, in this connection, that there is no need for aviators, either civil or military, to prepare their own gasoline by the addition to it of Ethyl Fluid. It will be found to be quite a simple matter to obtain gasoline of suitable quality, at practically any point designated, by specifying what is needed and giving the regular manufacturers of such gasoline an opportunity to supply it. Moreover, the results of such methods of obtaining gasoline will certainly be found to be gratifying, in that a more uniformly satisfactory fuel will thereby be obtained. The indiscriminate and unnecessary use of cans of Ethyl Fluid should be discouraged therefore by every means which is at the command of the hygienic authorities.

V. Precautionary Measures in Mixing Ethyl Fluid with Gasoline at Refineries and Bulk Terminals.

Little need be said concerning the proper way of handling this question in Italy. The methods employed by Ethyl Export Corporation are fully known to the hygienic authorities, and since these methods were devised and put into operation by the writer of this memorandum, he has thereby expressed in action the results of his best judgment and experience. In order that the procedure may be reviewed in connection with this memorandum, copies of the plans and specifications for the construction of mixing plants, and copies of detailed instructions for their operation are appended hereto. It is believed that safety in this field can be accomplished only by strict adherence to the use of properly designed equipment and adequately regulated and supervised technique.

In this connection several types of portable mixing equipment have been designed by persons with adequate mechanical training, perhaps, but with no appreciation of the hygienic problem. Of those which have been submitted to me or which have come to my attention through circuitous avenues, I can only say that I find them ingenious death-traps. On the other hand such equipment, while wholly unnecessary, can be designed with an eye to safety. If this question should be found to be one of practical importance, the undersigned would be glad to make such suggestions and criticisms of proposed equipment as would serve the purposes of safety.

(Signed)

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