<u>SOME PHYSICOCHEMICAL PROPERTIES OF PERFLUOROPOLYETHER</u> <u>SURFACTANTS</u>

G. Caporiccio, F. Burzio, G. Carniselli and V. Biancardi MONTEDISON SpA - Centro Ricerche Prodotti Industria - Milan

Two series of surface active agents have been obtained, starting from intermediate products of HFP and TFE photooxidation:

$$CF_3(0-CF_2-CF)_n^{-0}-CF_2COOH$$
 (n = 1,2,3)

$$HOOCCF_2 - (0 - CF_2 CF_2)_n - (0 CF_2)_m - 0 CF_2 COOH$$
 (n = 1,2,3; m = 1,2,3)

Structural, physical and chemical properties have been summarized.

Surface activity of the products in aqueous solution was examinated in terms of c.m.c. and H.L.B.

Molecular cross section areas, derived from surface tension and Langmuir trough measurements, have been related to structural parameters.