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SOME NEW COMPOUNDS CONTAINING  $N(SO_2F)_2$  GROUP

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Imidobis(sulfonyl fluoride),  $HN(SO_2F)_2$ , is a strong protonic acid. Like other strong protonic acids it forms adducts with carboxylic acids having composition  $RCOOH \cdot HN(SO_2F)_2$ ;  $R = CH_3$ ,

$C_2H_5$ ,  $n-C_3H_7$ ,  $CF_3$ ,  $CH_2Cl$ .

The adducts are ionic.  $N(SO_2F)_2$  is a potential pseudohalogen group.

$MN(SO_2F)_2$ ,  $M = Co, Ni, Cu$  and  $SbCl_4N(SO_2F)_2$  have been prepared and

characterized. Compounds of the type  $A_2 [TiCl_4Y_2]$ ,  $A [FeCl_3Y]$ ,

$A_2 [MCl_2Y_2]$ , ( $A = Me_4N$  and/or  $S_4N_3$ ;  $Y = N(SO_2F)_2$ ;  $M = Mn, Fe, Co, Ni,$

$Cu$ ) will also be discussed.