US ERA ARCHIVE DOCUMENT

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FILE OR REG. NO.	4822-GAI	
PETITION OR EXP. PERMIT	T NO.	
DATE DIV. RECEIVED	April 9, 1991	V 3
DATE OF SUBMISSION	November 5, 1990	•
DATE SUBMISSION ACCEPTE	ED	* * * * * * * * * * * * * * * * * * * *
TYPE PRODUCT(S): (I), D,	H, F, N, R, S Repellent	
DATA ACCESSION NO(S). 4	+18443-02; D163895; S395043; Case#048218; Action C	ide:160
PRODUCT MGR. NO.	· 17-Hutton/Tavano	
PRODUCT NAME(S)	OFF! Insect Repellent Formula 1990 #3	
COMPANY NAME	S. C. Johnson & Son, Incorporated	,
	ovide performance data to support claims for 2-	
	ur protection against mosquitoes, black flies	•
	d sand flies with new low-Deet formulation.	
<del>-</del>	N.N-Diethyl-meta-tolvamide 6.65%	
	Other isomers 0.35%	4

(non-aqueous, ready-to-use liquid in 3- and 6-fluid ounce pump-spray bottles)
[Since identical mg/cm² of deet are applied as with the aerosol, data & conclusions are the same.] CONCLUSIONS & RECOMMENDATIONS The data presented in EPA Accession (MRID) Number 418443-02, having been obtained from laboratory and field testing conducted according to protocols which meet essential requirements of §959 on pp. 262-4 and especially § 95-9(a)(1)-(3) on p. 263 and the standards for § 95-9(b)(1)(iv) and (v) on p. 264 of the Product Performance Guide lines are adequate to support the claims for repellency against mosquitoes and biting flies for up to 2 hours when the subject product is applied to human skin according to label directions. Test No. 1 demonstrates Laboratory efficacy of the subject formulation applied as an aerosol against yellow fever mosquito and stable fly as well as equivalency to a 7.5% lotion applied at the same amount of deet per unit area. Tests 2 & 3 demonstrate effectiveness of the subject aerosol against these 2 species equivalent to other deet aerosols of lower and higher concentration in laboratory tests. Tests 4 &6 demonstrate field efficacy of the subject aerosol against Aedes vexans in Wisconsin and A. taeniorhynchus in Florida compared to a 7.5% lotion (which also contains R-17 at 1%) applied at the same unit-area rate; tests 7 & 8 demonstrate field repellency of the subject aerosol against Andes in the same 2 locations compared to a 5% aerosol; test 5 demonstrates field repellency of the subject aerosol against Aedes in Wisconsin compared to a 3% verosol and test 9 compares field repellency of the subject aerosol and a 15% deet liquid against Aedes in Maine. Test 10 demonstrates field repellency of the subject aerosol against black flies in Maine compared to a 7.5% deet-only lotion applied aerosol against black flies in Maine compared to a 7.5% deet-only lotion applied at the same unit-area rate. Test 11 demonstrates field repellency of the subject aerosol against sand flies in Georgia compared to the same lotion at the same rate. Incidentally, the label declaration for other isomers should be 0.35% (5% of 7.00%). RL Vern L. Mc Farland, IRB