OFTIGHAL FORM NO. 10 MAY IMP KOLTION ORA FEMT (41 CFT) 101-11.8

UNITED STATES GOVERNMENT

Memorandum

TO : Patitions Control Branch

DATE: July 21, 1966

Drs. K. P. Misra & J. McLaughtin, Jr. FROM : Division of Toxicological Evaluation

Petitions Review Branch

SUBJECT: Amend regulation 121.2526 (Components of paper and paperboard in contact with aqueous and fatty foods) to include mono-, and bis-(1-H, 1H, 2H, 2H-per fluoro-alky1) phosphates-diethanolamine salts as an optional component of paper and paperboard.

FOOD ADDITIVL PETITION NO. 5B1747 (Supplement to Final Evaluation)

E. I. DuPont de Nemours & Company Wilmington, Delaware (AF 4-408)

The revised submission (June 21, 1966) restricts the use of (b) (4) to 0.25% by weight of paper. It leads FSA to suggest (FSA memo to PCB dated June 27, 1966) a migration of 0.2 ppm to aqueous food and nil to fatty food. This would be essentially in the form of (b) (4) because of its stability in strong mineral acids and alkalies. The use limitation should further restrict for contact with foods under conditions of use of E, F, G and H of Table 2 regulation 121.2514.

In support of higher "no effect" level for (D) (4) (TE memo to PCB dated Feb. 3, 1966), the petitioner advances a supplementary point. The diethanol amine content of (D) (4) is about 16-17%. The "no effect" level from Mellon Institute's report is between 20 to 90 mg/kgm in rats for diethanolamine (suggested). The effect level is 90 mg/kgm. At a level of intake of 100 ppm of (D) (4) the intake of diethanolamine would constitute about 10 mg/kg, and consequently at 1000 ppm of Zonyl RP it would be about 100 mg/kgm. Thus, the slightly enlarged liver effect observed at 500-1000 ppm of (D) (4) could be due to a combined effect of the diethanolamine and flurocarbon moieties of (D) (4)

Evaluation: We can state that the "no effect" level is less than 1000 ppm of (b) (4) but more than 100 ppm. With the proposed use restrictions (lowered use level, and restricted food contact use conditions) we consider the use of (b) (4) safe.

CONCLUSION: The use of (b) (4) as revised and proposed (FSA memo to PCE dated June 27, 1966) is safe. The basis of safety rests on the expected level of migration (0.2 ppm.) and toxicity data (Two 90-day studies in both rat and dog) on (b) (4) We recommend a promulgation of a regulation, only when FSA's requirements (FSA memo to PCE dated June 27, 1966) are met in support of this petition.

ONF-7/29/16

PCE

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