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Document Processing Center (Mail Code 7407M)  
Room 6428  
Attention: 8(e) Coordinator  
Office of Pollution Prevention and Toxics  
U.S. Environmental Protection Agency, ICC Building  
1201 Constitution Ave., NW  
Washington, DC 20004

2009 JAN 26 09:11:16  
PROCESSED

Dear 8(e) Coordinator:

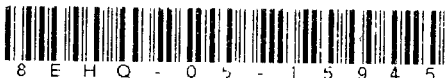
8EHQ-05-15945  
Substituted Anthranilamide

This letter is to inform you of the results of a recently conducted dermal sensitization study (Murine Local Lymph Node Assay) with an R&D proprietary mixture containing [ ] of the above referenced substance. The study was conducted using female CBA/JHsd mice.

Test animals (5/concentration) were topically induced on both ears for 3 consecutive days with the proprietary test mixture at the following concentrations: 10%, 50%, or 100%. The same procedures were carried out on contemporaneous control groups, except that the test mixture was replaced by N, N-dimethylformamide (vehicle control), or 25% hexylcinnamaldehyde in N, N-dimethylformamide (HCA: positive control). On test day 5 of the assay, mice received <sup>3</sup>H-Thymidine by tail vein injection and were sacrificed approximately 5 hours later. The cell proliferation in the draining auricular lymph nodes of the ears from the proprietary test mixture groups was then evaluated and compared to the vehicle control group.

Statistically significant increases in cell proliferation measurements compared to the vehicle control group were observed at the 50% and 100% test concentrations. Stimulation indices (SIs) of greater than 3.0 were observed at all test concentrations of the test mixture. The EC3 value (the estimated concentration required to induce a threshold positive response, i.e., SI = 3) for the test mixture under the conditions of this study was calculated to be 9%. A 25% concentration of the positive control, HCA, produced a dermal sensitization response in mice. Therefore, the LLNA test system was valid for this study. Under the conditions of this study, the test mixture produced a dermal sensitization response in mice.

Sincerely,



Company Sanitized



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