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November 14, 2007

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Document Processing Center (7407M)
(Attn: TSCA Section 8(e) Coordinator)
Office of Pollution Prevention and Toxics
Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Washington, DC 20460-0001

Re: 8EHQ 14708

8EHQ-00-14708

Dear 8(e) Coordinator:

hereby submits the following information under Section 8(e) of the Toxic Substance Control Act. While the submitter does not necessarily believe the information indicates a significant risk of injury to health or the environment, EPA guidance seems to indicate that these effects in laboratory animals should be reported to the Agency.

Groups of 12 male and female Crl:CD(SD) rats were exposed in whole-body inhalation exposure chambers to target concentrations of 0, 25, 100 or 350 ppm of the test substance vapors for six hours/day, seven days/week. Female rats were exposed daily for two weeks prior to breeding, through breeding (two weeks), and continuing through gestation day 20. Females were necropsied on post-partum day 5. The males were exposed for two weeks prior to breeding and continuing through breeding (two weeks) up until necropsy (test day 34). Effects on general toxicity, neurobehavioral activity, clinical chemistry, urine parameters, hematology, gonadal function, mating behavior, conception, development of the conceptus, parturition and early postnatal growth and survival were evaluated in this study. In addition, a gross necropsy of the adults was conducted with collection of organ weights and extensive histopathologic examination of tissues. In the offspring, litter size, pup survival, sex, body weight and the presence of gross external abnormalities were assessed.

Females exposed to 350 ppm of the test substance had lower absolute and relative thyroid weights (Text Table 1) that were accompanied by histologic thyroid hypertrophy, smaller follicles and lower colloid content (Text Table 2). Similar effects were not present in females exposed to 25 or 100 ppm of the test substance, or males at any exposure level, that were in excess of the control incidence.

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Text Table 1. Selected Organ Weights

Test Substance (ppm):	0	Historical[1]	25	100	350
Parameter	FEMALES				
Final Body Weight (g)	275.1	251.2-285.7	263.2	268.7	263.3
Absolute Thyroid Gland (g)	0.0187	0.0130-0.0157	0.0177	0.0174	**0.0158***
Relative Thyroid Gland (g/100g bw)	0.0068	0.0050-0.0060	0.0067	0.0065	**0.0060***

*Statistically Different from Control Mean by Dunnett's Test, Alpha = 0.05.
[1]Historical controls group mean range from 3 recent inhalation OECD 422 studies.
Bolded values were interpreted to be treatment related.

Text Table 2. Treatment-Related Thyroid Effects

Sex	Male				Female			
Exposure Concentration (ppm)	0	25	100	350	0	25	100	350
Thyroid gland (# examined)	12	12	12	12	12	12	12	12
Hypertrophy; follicle; epithelial cell - slight	0	1	0	0	1	0	1	**5**

Bold type indicates the effects judged to be treatment related.

Questions concerning these findings may be directed to the undersigned.