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Office of Toxic Substances  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, DC 20460

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ATTN: TSCA Section 8(e) Coordinator

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RE: TSCA Section 8(e) Notification of Furfural

[ ]

Gentlemen:

This TSCA Section 8(e) substantial risk notification concerning a dose range-finding developmental toxicity study in rats with furfural is being submitted by [ ]. The CAS Registry Number for this chemical is 98-01-1. The test was performed at WIL Research Laboratories, Inc., Ashland, Ohio, under their Study Nos. [ ]. The information summarized below was used to establish dose levels for the definitive study, which is currently under way.

An initial dose range-finding developmental study was performed using female rats that had been cohabited with male rats of the same strain and source. Day of mating confirmation was designated as day "0" of gestation. Eight (8) females were assigned per group and received single daily oral (gavage) doses of either vehicle control material or the test article at dosage levels of 10, 50, 100, 500, or 1000 mg/kg/day. The vehicle control was reverse osmosis treated water, sparged with nitrogen. The test and control articles were administered during the period of major organogenesis, gestation days 6 through 15. Individual dosages were calculated for each animal using their body weight for that given day.

Within several hours of receiving the first daily dose at the dosage levels of 500 and 1000 mg/kg/day, four of eight and three of eight of the animals expired, respectively. The remaining animals of each of these two groups were euthanized due to their moribund condition. No deaths or recordable clinical observations were associated with animals given vehicle control or test article at 10, 50, or 100 mg/kg/day. In addition no

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