

ANNEXE C

**DOSE RÉFÉRENCE DE RISQUE
DE L'HEXAZINONE**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

MAR 24 1993

C-2

MEMORANDUM

OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

SUBJECT: RfD/Peer Review Report of Hexazinone

CASRN. 51235-04-2
EPA Chem. Code: 107201
Caswell No. 271AA

FROM: George Z. Ghali, Ph.D. *G. Ghali 3.12.93*
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The Health Effects Division RfD/Peer Review Committee met on February 11, 1993 to reassess the Reference Dose (RfD) for Hexazinone in light of additional data.

The RfD for this chemical was first assessed by the Health Effects Division RfD Committee on July 11, 1986 and then reassessed on March 6, 1987 and subsequently verified by the Agency RfD Work Group on March 18, 1987. At that time the RfD was based upon a NOEL of 10 mg/kg/day for decreased body weight observed at 50 mg/kg/day in a two-year feeding study in rats, using an uncertainty factor (UF) of 100 to account for inter-species extrapolation and intra-species variability. An additional UF of 3 was applied to compensate for the lack chronic toxicity data in a non-rodent species, i. e. dog. On this basis the RfD was calculated to be 0.033 mg/kg/day.

Subsequently, a long-term toxicity study in dogs was submitted to the Agency demonstrating a NOEL of 5 mg/kg/day. In their meeting of February 11, 1993 the RfD/Peer Review Committee recommended that an RfD should be established based upon a NOEL of 5 mg/kg/day for changes in clinical chemistry and histopathological parameters observed at 41.24 and 37.57 mg/kg/day in males and females respectively in the long-term feeding study in dogs. An Uncertainty Factor (UF) of 100 was used to account for the inter-species extrapolation and intra-species variability. On this basis the RfD was calculated to be 0.05 mg/kg/day.