

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

INTEROFFICE COMMUNICATION

March 19, 1985

*Linden Rd. LF
Genesee Co.*

TO: Dan O. Cummins, Lansing District
Ground Water Quality Division

FROM: Maria Carmen Martinez, Toxic Chemical Evaluation Section
Environmental Services Division *TCM*

SUBJECT: N-Nitrosodiphenylamine

According to the procedures developed within TCES, the concentration associated with the estimated risk level of 10^{-6} (1 in 1,000,000) used as the upper boundary of risk for the carcinogen N-nitrosodiphenylamine is 4 ppb. This is based on the assumption that the exposure through drinking water of a 70-kilogram man is 2 liters per day for a lifetime.

Regarding the environmental fate of the chemical, oxidation, hydrolysis and volatilization do not appear to affect its aquatic fate. The sorption process may be of significance due to its low log octanol/water partition coefficient ($\log P=2.57$). This indicates that it may potentially be sorbed by organic material present in the environment.