

VALUE(S) ADDED 7-24-85

FACT SHEET REVISED 9-6-85

VALUE(S) REMOVED -----

**AMBIENT SURFACE WATER QUALITY  
STANDARDS DOCUMENTATION**

**CHEMICAL:** N-Nitrosodiphenylamine

**CAS NO.(s):** 86-30-6

**BASIS (Human/Aquatic):** Human

**WATER CLASSIFICATION:** AA; AA-s; A; A-s

**STANDARD:** 50 ug/l **Note E**

**REMARKS:**

**SUMMARY INFORMATION:**

Available toxicity information on this compound has been reviewed.<sup>1,2</sup> Insufficient data exist upon which to calculate a guideline based on chronic toxicity or aesthetic characteristics. Chronic exposure of rats to this compound via the diet has resulted in a significant increase in the incidence of tumors of the urinary bladder in both sexes.<sup>3</sup> However, n-nitrosodiphenylamine was not oncogenic to mice (dietary doses) in a similar bioassay, also sponsored by the National Cancer Institute,<sup>3</sup> and was also not oncogenic in three, less than adequate bioassays (all oral doses).<sup>2</sup> In addition, n-nitrosodiphenylamine has not shown any genotoxic activity in approximately 25 short-term tests.<sup>2</sup> Consequently, the available data are insufficient to classify n-nitrosodiphenylamine as an oncogen as defined in Part 701.1(p).

**STANDARD DERIVATION:**

An inadequate data base for this chemical precludes the use of any derivation outlined in Section 701.3 through 701.7. Therefore, the general guideline of 50 ug/l is recommended as the standard.

**REFERENCES:**

- (1) U.S. Environmental Protection Agency. 1980. Ambient water quality criteria for nitrosamines. NTIS No. PB81-1.17756.
- (2) International Agency for Research on Cancer. 1982. IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. 27: 213-225.
- (3) National Cancer Institute. 1978. Bioassay of n-nitrosodiphenylamine possible carcinogenicity. Carcinogenesis Tech. Rep. Ser. No. 164.

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