

Fact Sheet Date: March 12, 1998

**NEW YORK STATE
- HUMAN HEALTH FACT SHEET -**

**Ambient Water Quality Value for
Protection of Sources of Potable Water**

SUBSTANCE: n-Butylbenzene

CAS REGISTRY NUMBER: 104-51-8

AMBIENT WATER QUALITY VALUE: 5 ug/L

BASIS: Surface Water: Principal Organic Contaminant Classes
Groundwater: Former Reference to 10 NYCRR Subpart 5-1 Principal Organic Contaminant (POC) General Maximum Contaminant Level (MCL)

SUMMARY OF INFORMATION

A search of relevant sources revealed little information on the toxicity of n-butylbenzene. It is not listed on EPA's IRIS, does not have a final EPA drinking water Health Advisory, and no indication of carcinogenicity was found. No data were received in response to a public notice. An additional search of NTIS, BIOSIS and TOXLINE on the generic butylbenzene revealed no relevant citations.

n-Butylbenzene is in a principal organic contaminant class (class iv, benzene and alkyl- or nitrogen-substituted benzenes) as defined in 6 NYCRR 700.1.

DERIVATION OF VALUE

Surface Water

Regulations [6 NYCRR 702.2(b)] require that the value be the most stringent of the values derived using the procedures found in sections 702.3 through 702.7. The principal organic contaminant class value of 5 ug/L (702.3(b)) represents the most stringent value that can be derived for n-butylbenzene. Therefore, the ambient surface water quality value for n-butylbenzene is 5 ug/L.

Groundwater

The principal organic contaminant (POC) groundwater standard of 5 ug/L (6 NYCRR 703.5) applies to n-butylbenzene. This standard became effective on January 9, 1989 by inclusion by reference to 10 NYCRR Subpart 5-1 standards. The basis and derivation of the POC standard are described in a separate fact sheet.

REFERENCES

NYSDEC. 1991. 6 NYCRR, Chapter X, Parts 700-705. Water Quality Regulations for Surface Waters and Groundwaters.

SEARCH STRATEGY

The following sources were searched for n-butylbenzene:

- ! Integrated Risk Information System (IRIS) - Searched December 21, 1993.
- ! Registry of Toxic Effects of Chemical Substances (RTECS) - Searched November 27, 1992.
- ! Chemical Carcinogenesis Research Information System (CCRIS) - Searched November 27, 1992.
- ! TOXLINE - Searched by New York State Library December, 1992.
- ! National Technical Information Service (NTIS) - Searched by New York State Library December, 1992.
- ! BIOSIS - Searched by New York State Library December, 1992.
- ! IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. Overall Evaluations of Carcinogenicity: An Updating of IARC Monographs Volumes 1 to 42. IARC Monographs Supplement 7. International Agency for Research on Cancer, World Health Organization, Lyon, France, 1987. Searched 12/22/93.

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