

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: sec-Butylbenzene

CAS REGISTRY NUMBER: 135-98-8

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 sec-butylbenzene. It is not listed on EPA's IRIS and does not have a final EPA drinking water Health Advisory. No relevant data were received in response to a public notice. A search of NTIS, TOXLINE and BIOSIS for the generic butylbenzene revealed no additional relevant studies.

sec-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 sec-butylbenzene. Therefore, the ambient surface water quality value for sec-butylbenzene is 5 ug/L.

Groundwater

The principal organic contaminant (POC) groundwater standard of 5 ug/L (6 NYCRR 703.5) applies to sec-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

Integrated Risk Information System (IRIS) - Searched 12/21/93.

! Registry of Toxic Effects of Chemical Substances (RTECS) - Searched 11/27/92.

! Chemical Carcinogenesis Research Information System (CCRIS) - Searched 11/27/92.

! TOXLINE - Searched by New York State Library 12/4/92.

! National Technical Information Service (NTIS) - Searched by New York State Library 12/4/92.

! BIOSIS - Searched by New York State Library 12/4/92.

! 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 12/29/93.

New York State Department of Environmental Conservation
Division of Water
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