NEW YORK STATE
- HUMAN HEALTH FACT SHEET -

Ambient Water Quality Value for
Protection of Sources of Potable Water

SUBSTANCE: Trichlorofluoromethane
CAS REGISTRY NUMBER: 75-69-4

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

New York State developed a guidance value for trichlorofluoromethane in water of 50 ug/L based on a review of literature up to 1984 (NYS, 1985). This was based on subdivision 701.15(e) of 6 NYCRR that describes a general value of 50 ug/L when the database is inadequate to derive a specific value. Recent studies and assessments (1983-1989) have been reviewed (Reed et al., 1988; Maltoni et al., 1988). No evidence of carcinogenicity was found in chronic bioassays (Maltoni, 1988; NCI, 1978). Many acute and subchronic inhalation studies have been reported, revealing diverse cardiac and pulmonary effects, but none are adequate to derive a guidance value (Reed et al., 1988).

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 trichlorofluoromethane. Therefore, the ambient surface water quality value for trichlorofluoromethane is 5 ug/L.
Groundwater

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


6NYCRR. Chapter X. Parts 700-705. Water Quality Regulations. Surface Waters and Groundwater Classification and Standards.


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Division of Water
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