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: 3-Chlorotoluene **CAS REGISTRY NUMBER:** 108-41-8

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 (see Scope of Review, below) found no information on the toxicity of 3-chlorotoluene. It is not listed on U.S. EPA's IRIS, and no information was found on its oncogenicity, or upon which to derive an acceptable daily intake (ADI). Furthermore, U.S. EPA (1985) did not find any information on the carcinogenicity, teratogenicity reproductive toxicity or chronic toxicity of 3-chlorotoluene in its 1984 search of numerous sources.

3-Chlorotoluene does not have a Specific MCL as defined in 6 NYCRR 700.1, but is in principal organic contaminant class iii as defined in 700.1.

DERIVATION OF VALUE

No information was found upon which to derive a value for 3-chlorotoluene other than the principal organic contaminant class value of 5 ug/L. Derivation for surface water and groundwater are described separately below because of an historical difference between them in State water quality regulations.

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 3-chlorotoluene. Therefore, the ambient surface water quality value for 3-chlorotoluene is 5 ug/L.

Groundwater

The principal organic contaminant (POC) groundwater standard of 5 ug/L (6 NYCRR 703.5) applies to 3-chlorotoluene. 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.

OTHER VALUES

No federal drinking water values exist for 3-chlorotoluene.

Under the State Sanitary Code (10 NYCRR Part 5, Public Water Supplies), the New York State Department of Health has established a maximum contaminant level of 5 ug/L for "principal organic contaminants" such as 3-chlorotoluene in drinking water.

REFERENCES

6 NYCRR (New York State Codes, Rules and Regulations). Water Quality Regulations, Surface Water and Groundwater Classifications and Standards: Title 6 NYCRR, Chapter X, Parts 700-705. Albany, NY: New York State Department of Environmental Conservation.

10 NYCRR (New York State Codes, Rules and Regulations). Public Water Systems: Title 10 NYCRR, Chapter 1, State Sanitary Code, Subpart 5-1. Albany, NY: New York State Department of Health, Bureau of Water Supply Protection.

U.S. EPA (Environmental Protection Agency). 1985. Health and environmental effects profile for chlorotoluenes. Cincinnati, OH: Environmental Criteria and Assessment Office. EPA/600/X-85/045. PB88-176052.

SCOPE OF REVIEW

Several of the widely-recognized sources listed below can provide a comprehensive review and often a quantitative assessment of the toxicity of a substance. These sources were searched for information on 3-chlorotoluene; where none was found it is so noted.

- IRIS (U.S. EPA's Integrated Risk Information System). On-line database (substance not on IRIS).
- RTECS (Registry of Toxic Effects of Chemical Substances). On-line database (substance not on RTECS).
- CCRIS (Chemical Carcinogenesis Research Information System). On-line database (substance not on CCRIS).
- ATSDR (Agency for Toxic Substances and Disease Registry) toxicological profile (document not found).
- U.S. EPA ambient water quality criteria document (document not found).
- U.S. EPA health advisory (document not found).
- U.S. EPA drinking water criteria document (document not found).
- IARC (International Agency for Research on Cancer) Monographs Supplement 7 (substance not listed).

No comprehensive review document was found for 3-chlorotoluene. Therefore, an on-line search of the literature was conducted by the New York State Library from 1993 back to the 1960's on the databases listed below.

- NTIS (National Technical Information Service)
- TOXLINE
- BIOSIS

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