

Fact Sheet Date: March 12, 1998

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

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

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| SUBSTANCES: | 1,1-Dichloropropane | CAS REGISTRY NUMBERS: | 78-99-9 |
| | 2,2-Dichloropropane | | 594-20-7 |
| | 1,3-Dichloropropane | | 142-28-9 |

AMBIENT WATER QUALITY VALUE: 5 ug/L*

Remarks: *Applies to each isomer individually.

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| 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 dichloropropanes in water of 50 ug/L based on a review of literature up to 1984 (NYS, 1985). This was based on section 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) of health effects have been reviewed (USEPA, 1985; Von der Hude et.al., 1987).

Insufficient data exist on these compounds to develop specific guidance values.

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 each of 1,1-, 1,3- and 2,2-dichloropropane. Therefore, the ambient surface water quality value for each of 1,1-, 1,3- and 2,2-dichloropropane is 5 ug/L.

Groundwater

The principal organic contaminant (POC) groundwater standard of 5 ug/L (6 NYCRR 703.5) applies to each of 1,1-, 1,3- and 2,2-Dichloropropane individually. 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 Classifications and Standards.

10NYCRR. Chapter I. Part 5, Subpart 5-1. Public Water Supplies.

NYS, New York State. 1985. Ambient Surface Water Quality Standards Documentation. Dichloropropanes. Sept. 6, 1985 (Fact Sheet Revised). Albany, N.Y.

USEPA 1985. U.S. Environmental Protection Agency, Health and Environmental Effects Profile for Dichloropropanes, Environmental Criteria and Assessment Office, Cincinnati, OH.

Von der Hude, W., M. Scheutwinkel, U. Gramlich, B. Fisler, A. Basler, 1987. Genotoxicity of Three-Carbon Compounds Evaluated in the SCE Test In Vitro. Environ. Mutagen. 9:401-410.

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