

FACT SHEET DATE: SEP 6 1990

NEW YORK STATE
- HUMAN HEALTH FACT SHEET -

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

SUBSTANCE: Chloramben

CAS REGISTRY NUMBER: Not Applicable

AMBIENT WATER QUALITY VALUE: 50 ug/L*

Remarks: * Includes: related forms that convert to the organic acid upon acidification to a pH of 2 or less; and esters of the organic acid.

BASIS: Reference to 10 NYCRR Subpart 5-1 General Standards

SUMMARY OF INFORMATION:

The Lifetime Health Advisory from the USEPA's Office of Drinking Water for nononcogenic effects from chloramben is 100 ug/L (USEPA, 1988). This is calculated from a Reference Dose (RfD) of 0.015 mg/kg/day, assuming a body weight of 70 kg, a water consumption rate of 2 L per day and that 20% of the intake of this substance is from drinking water. Regarding its carcinogenic potential, chloramben may be classified in USEPA Group D: not classified (a category used for substances with inadequate or no animal evidence of carcinogenicity).

Chloramben is an unspecified organic contaminant (UOC) as defined under New York State Department of Health (DOH) regulations (10 NYCRR Subpart 5-1). The DOH's maximum contaminant level (MCL) for UOCs is 50 ug/L, which became effective January 9, 1989.

DERIVATION OF VALUE:

Groundwater

Current DEC regulations for groundwater (Part 703) automatically and immediately include, by reference, 10 NYCRR Subpart 5-1 MCLs as DEC standards. Given that chloramben is a UOC as described above, the DEC standard of 87.5 ug/L became 50 ug/L as of January 9, 1989.

Although the DEC is proposing to delete the UOC MCL as a general standard for groundwater, it is being retained as a specific standard for chloramben. Chloramben is specifically listed in DEC paragraph 703.5(a)(3) with a standard less stringent than 50 ug/L. The DEC has reviewed toxicity information for chloramben under its current procedures and determined that a value greater than 50 ug/L would not be justified. Consequently, the UOC standard of 50 ug/L is more appropriate than the listed specific standard.

Surface Water

Current DEC regulations for surface water (Part 701) reference 10 NYCRR Part 5 as a procedure for deriving standards and guidance values. Given that chloramben is a UOC as described above and that a value more stringent than 50 ug/L is not indicated by the available information, the value for this substance should be 50 ug/L, based on the Part 5 UOC MCL.

Although the Part 5 UOC MCL is proposed for deletion as a procedure for surface water, the value of 50 ug/L would also be derived for chloramben under the proposed DEC regulations (702.15(g)(1)(ii)). Under this subparagraph, a value greater than 50 ug/L cannot be derived for a substance unless both the oncogenic and nononcogenic effects have been adequately evaluated. Because the oncogenic potential of chloramben has not been adequately assessed, the value of 50 ug/L would also be derived for it under the proposed DEC regulations.

REFERENCES:

U.S. Environmental Protection Agency (USEPA). 1988. Chloramben Health Advisory. Office Of Drinking Water, U.S. Environmental Protection Agency, August, 1988.

CSS/SS