

AMBIENT SURFACE WATER QUALITY
STANDARDS DOCUMENTATION

CHEMICAL: Methylene bithiocyanate

VALUE(S) ADDED

1-23-84

CAS NO.(s): 6317-18-6

FACT SHEET REVISED 1-6-85

BASIS (Human/Aquatic): Human

VALUE(S) REMOVED _____

WATER CLASSIFICATION: AA; AA-s; A; A-s

STANDARD: 50 ug/l

Note E

REMARKS:

SUMMARY INFORMATION:

Available toxicity information on methylene bithiocyanate has been reviewed.^{1,2} Most information on this compound evaluates its effectiveness as a biocide rather than its toxic properties.^{1,2,3} The compound was determined by the Ames test to be negative for mutagenicity.¹ Insufficient data exist upon which to calculate a guideline based on chronic toxicity or aesthetic characteristics. The compound has not been tested adequately to determine its oncogenic potential.

STANDARD DERIVATION:

Inadequate data base for this chemical precludes the use of any derivation outlined in Section 701.3 through 701.7. Therefore, the general guideline of 50 ug/l is recommended as the standard.

REFERENCES:

- (1) Zhang, Q. et al., 1980, Mutagenicity of eighteen pesticides, Huan Ching K'io Hsueh, 1(5), 58-61 (Chem. Abstract only).
- (2) Linden, E. et al., 1979, The acute toxicity of 78 chemicals and pesticide formulations against two brackish water organisms, the bleek (Alburnus alburnus) and the harpacticoid Nitocra Spinipes, Chemosphere, 8(11-12), 843-51.
- (3) Grace, R. et al., 1981, Susceptibility of Legionella pneumophila to three cooling tower microbicides, Appl. Environ. Microbiol., 41(1), 233-6.

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