

VALUE(S) ADDED 7-24-85  
FACT SHEET REVISED \_\_\_\_\_  
VALUE(S) REMOVED \_\_\_\_\_

Date: August 6, 1984

Surface Water Quality  
Standard Documentation

Chemical: Methylene bithiocyanate

C.A.S. No.(s): 6317-18-6

Basis (Human/Aquatic): Aquatic

Standard by Water Classification:

	<u>ug/l</u>	<u>Notes</u>
Classes AA,AA-s;A;A-s;B;C	1.0	J
Class D		
Classes SA;SB;SC;I		
Class SD		

Remarks:

Summary of Information

MBT is used as the active ingredient in water treatment chemical formulations. Toxicity data for three products containing 10% MBT are listed below:

<u>Product</u>	<u>96 hr LC<sub>50</sub>, ppm</u>
1	1.71 - Rainbow trout 2.24 - Bluegill sunfish
2	1.35 - Rainbow trout 2.40 - Bluegill sunfish
3	1.35 - Rainbow trout 2.60 - Bluegill sunfish

Specific product information is kept in confidential files at Department of Environmental Conservation.

Standard Derivation

Multiplying the lowest LC<sub>50</sub> above by 0.1 results in an LC<sub>50</sub> of 100 ug/l for the active ingredient MBT. The high toxicity and unknown persistence of MBT justifies use of an application factor (AF) of 0.01 to derive a standard. Multiplying the LC<sub>50</sub> of 100 ug/l by the AF results in a value of 1 ug/l. This value should be adopted as the standard for all freshwater classes except Class D.