

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

Date: August 6, 1984

Surface Water Quality
Standard Documentation

Chemical: Azinphosmethyl (Guthion)

C.A.S. No.(s): 86-50-0

Basis (Human/Aquatic): Aquatic

Standard by Water Classification:

	<u>ug/l</u>	<u>Notes</u>
Classes AA,AA-s;A;A-s;B;C	0.005	J
Class D		
Classes SA;SB;SC;I	0.01	J
Class SD		

Remarks:

Summary of Information

1. EPA. 1976. Quality criteria for water. EPA 440/90-76-023. USEPA, Wash., D.C. 256 pp.

-criterion: "0.01 ug/l for freshwater and marine aquatic life".

-based on application of a factor of 0.1 to the 96 hr LC₅₀ for Gammarus spp. of 0.1 ug/l and a similar value of 0.3 ug/l for the European shrimp.
2. IJC. 1978. Group 2 proposed new and revised water quality objectives. International Joint Commission, Regional Office, Windsor, Ont. 195 pp.

-criterion: "Concentrations of Guthion in an unfiltered water sample should not exceed 0.005 micrograms per litre for the protection of aquatic life".

-based on application of a factor of 0.05 to the 96 hr LC₅₀ for Gammarus spp. of 0.1 ug/l.

Standard Derivation

The application factor used by IJC satisfied NYS protocol. The IJC criterion should be adopted for all freshwater classes except D. Applying a factor of 0.05 to the European shrimp LC₅₀ of 0.3 ug/l results in a value of 0.01 ug/l which should be adopted as the standard for all salt water classes except SD.